



**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

October 1st, 2022 through October 31st, 2022

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Prepared for:

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Acronyms and Abbreviations

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

1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by Gilbane Federal (Gilbane) 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. Gilbane 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 Gilbane at HPNS Parcel E from October 1st, 2022 through October 31st, 2022 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 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) and Metals (Copper, Lead, and Manganese)
3. Total suspended particulates (TSP)
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, Copper, Lead, and Manganese

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.

Once the PM10 concentration was gravimetrically determined, the filter was analyzed for copper, manganese, and lead in accordance with EPA Method 6020 (equivalent to IO-3.5 in the Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air [EPA, 1999])

3.3 TSP

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.

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 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 ($\mu\text{g}/\text{m}^3$).

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 $\mu\text{g}/\text{m}^3$	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.

$\mu\text{g}/\text{m}^3$ = 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

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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 and Station 2 in Parcel D-1 from October 1st, 2022 through October 31st, 2022, during which Gilbane was excavating, grading and maintaining radiological screening yard pads, and 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 October 1st, 2022 through October 31st, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from October 1st, 2022 through October 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10, lead, manganese, and copper results from October 1st, 2022 through October 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 3** and **Attachment 4**.

TSP results from October 1st, 2022 through October 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from October 1st, 2022 through October 31st, 2022 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. It was noted at sample receipt that the laboratory updated the sample nomenclature for filter naming to reflect the change in company name. 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.

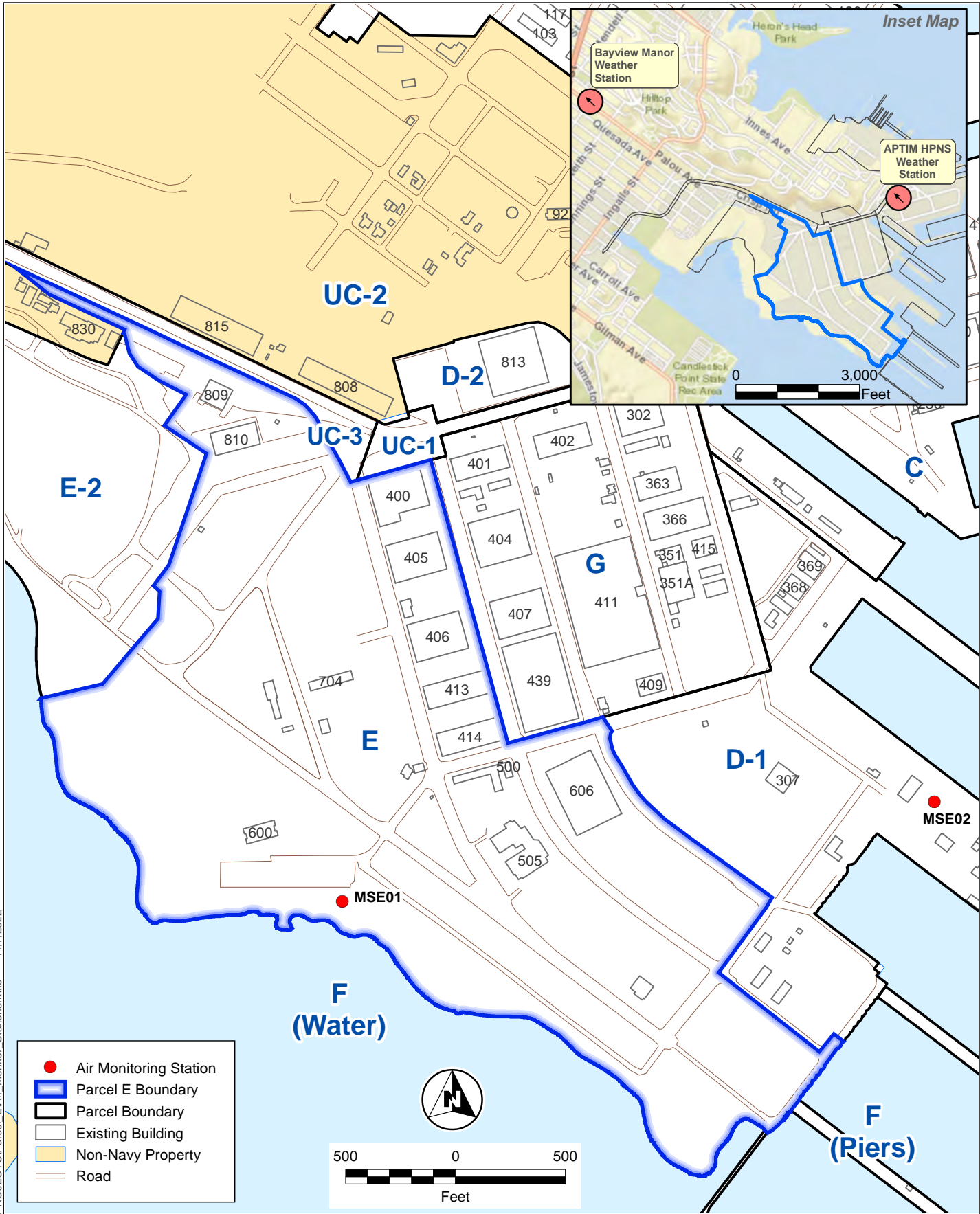
Gilbane Federal, 2019a. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October

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
10/3/2022 ¹	30.10	61.91	W
10/4/2022 ¹	30.08	58.72	W
10/5/2022 ¹	30.07	58.81	W
10/6/2022 ¹	30.13	59.00	WNW
10/10/2022 ¹	30.04	56.15	WSW
10/11/2022 ²	30.00	56.80	WSW
10/12/2022 ²	30.08	57.44	WSW
10/13/2022 ²	30.06	57.43	WSW
10/17/2022 ²	30.03	61.84	SE
10/18/2022 ²	30.04	67.57	NW
10/19/2022 ²	30.00	66.05	WSW
10/20/2022 ²	29.97	58.79	WSW
10/24/2022 ¹	30.26	59.68	WSW
10/25/2022 ¹	30.17	55.61	W
10/26/2022 ¹	30.12	57.24	WSW
10/27/2022 ¹	30.14	59.21	SSW

Notes:

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

²Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°F = degree Fahrenheit

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)
MSE01-100322	10/03/22	1	516	1032	18.0	0.009	No
MSE02-100322	10/03/22	2	532	1064	5.0	<0.003	No
MSE01-100422	10/04/22	1	526	1052	8.5	0.004	No
MSE02-100422	10/04/22	2	531	1062	6.0	0.003	No
MSE01-100522	10/05/22	1	523	1046	6.0	0.003	No
MSE02-100522	10/05/22	2	535	1070	7.0	0.003	No
MSE01-100622	10/06/22	1	435	870	2.5	<0.003	No
MSE02-100622	10/06/22	2	428	856	1.0	<0.003	No
MSE01-101022	10/10/22	1	528	1056	5.5	0.003	No
MSE02-101022	10/10/22	2	527	1054	6.5	0.003	No
MSE01-101122	10/11/22	1	518	1036	12.5	0.006	No
MSE02-101122	10/11/22	2	521	1042	8.5	0.004	No
MSE01-101222	10/12/22	1	518	1036	0.5	<0.003	No
MSE02-101222	10/12/22	2	515	1030	6.5	0.003	No
MSE01-101322	10/13/22	1	464	928	1.0	<0.003	No
MSE02-101322	10/13/22	2	459	918	7.0	0.004	No
MSE01-101722	10/17/22	1	465	930	4.0	<0.003	No
MSE02-101722	10/17/22	2	470	940	3.5	<0.003	No
MSE01-101822	10/18/22	1	549	1098	1.5	<0.002	No
MSE02-101822	10/18/22	2	558	1116	2.0	<0.002	No
MSE01-101922	10/19/22	1	532	1064	9.0	0.004	No
MSE02-101922	10/19/22	2	516	1032	1.0	<0.003	No
MSE01-102022	10/20/22	1	414	828	4.5	<0.003	No
MSE02-102022	10/20/22	2	413	826	4.5	<0.003	No
MSE01-102422	10/24/22	1	519	1038	10.0	0.005	No
MSE02-102422	10/24/22	2	536	1072	4.5	<0.003	No
MSE01-102522	10/25/22	1	541	1082	7.5	0.003	No
MSE02-102522	10/25/22	2	542	1084	5.0	<0.002	No
MSE01-102622	10/26/22	1	532	1064	5.5	0.003	No
MSE02-102622	10/26/22	2	538	1076	3.0	<0.003	No
MSE01-102722	10/27/22	1	519	1038	5.0	<0.003	No
MSE02-102722	10/27/22	2	523	1046	0.5	<0.003	No
MSE01-103122	10/31/22	1	519	1038	5.0	<0.003	No
MSE02-103122	10/31/22	2	535	1070	2.0	<0.003	No

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

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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)	Concentration 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)
GESPM090622-264	1	10/04/22	1717.1	0.071						
GESPM090622-265	2	10/04/22	1762.27	0.02	-0.0510	-51.0	5,000	No	50	No
GESPM090622-266	1	10/05/22	1714.47	0.033						
GESPM090622-267	2	10/05/22	1755.4	0.025	-0.0080	-8.0	5,000	No	50	No
GESPM090622-268	1	10/06/22	1726.52	0.003						
GESPM090622-269	2	10/06/22	1748.73	0.01	0.0070	7.0	5,000	No	50	No
GESPM090622-270	1	10/6/22 ²	495.5	0.019						
GESPM091422-271	2	10/6/22 ²	511.12	0.011	-0.0080	-8.0	5,000	No	50	No
GESPM091422-272	1	10/11/22	1654.56	0.013						
GESPM091422-273	2	10/11/22	1746.72	0.0099	-0.0031	-3.1	5,000	No	50	No
GESPM091422-274	1	10/12/22	1708.8	0.037						
GESPM091422-275	2	10/12/22	1762.89	0.014	-0.0230	-23.0	5,000	No	50	No
GESPM091422-276	1	10/13/22	1707.63	0.02						
GESPM091422-277	2	10/13/22	1737.47	0.011	-0.0090	-9.0	5,000	No	50	No
GESPM091422-278	1	10/13/22 ²	541.52	0.013 J						
GESPM091422-279	2	10/13/22 ²	555.95	0.009	-0.0040	-4.0	5,000	No	50	No
GESPM091422-280	1	10/18/22	1695.45	0.027						
GESPM091422-281	2	10/18/22	1764.97	0.021	-0.0060	-6.0	5,000	No	50	No
GESPM091422-282	1	10/19/22	1745.47	0.034						
GESPM091422-283	2	10/19/22	1779.71	0.027	-0.0070	-7.0	5,000	No	50	No
GESPM091422-284	1	10/20/22	1720.57	0.031						
GESPM091422-285	2	10/20/22	1750.65	0.02	-0.0110	-11.0	5,000	No	50	No
GESPM091422-286	1	10/20/22 ²	481.74	0.025						
GESPM091422-287	2	10/20/22 ²	492.35	0.019	-0.0060	-6.0	5,000	No	50	No
GESPM091422-288	1	10/25/22	1675.09	0.029						
GESPM100322-361	2	10/25/22	1755.85	0.013	-0.0160	-16.0	5,000	No	50	No
GESPM100322-362	1	10/26/22	1715.94	0.039						
GESPM100322-363	2	10/26/22	1753.5	0.024	-0.0150	-15.0	5,000	No	50	No
GESPM100322-364	1	10/27/22	1695.24	0.04						
GESPM100322-365	2	10/27/22	711.25 ⁴	0.029	-0.0110	-11.0	5,000	No	50	No
GESPM100322-366	1	10/27/22 ²	593.09	0.03						
GESPM100322-367	2	10/27/22 ²	609.62	0.02	-0.0100	-10.0	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.

⁴ Generator malfunction

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

COPPER, LEAD, AND MANGANESE MONITORING RESULTS

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Attachment 4: 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)
GESPM090622-264	1	10/04/22	1717.1	0.000077	No	0.000012	No	0.000031	No
GESPM090622-265	2	10/04/22	1762.27	0.00002	No	0.0000019	No	0.0000058	No
GESPM090622-266	1	10/05/22	1714.47	0.000024	No	0.0000026	No	0.0000072	No
GESPM090622-267	2	10/05/22	1755.4	0.000013	No	0.0000011	No	0.0000041	No
GESPM090622-268	1	10/06/22	1726.52	0.000015	No	0.0000077	No	0.0000015	No
GESPM090622-269	2	10/06/22	1748.73	0.000011	No	0.0000089	No	0.0000033	No
GESPM090622-270	1	10/6/22 ²	495.5	0.00007	No	0.000005	No	0.000012	No
GESPM091422-271	2	10/6/22 ²	511.12	0.000095	No	0.0000037	No	0.0000072	No
GESPM091422-272	1	10/11/22	1654.56	0.000049	No	0.0000025	No	0.0000052	No
GESPM091422-273	2	10/11/22	1746.72	0.000019	No	0.0000046	No	0.0000061	No
GESPM091422-274	1	10/12/22	1708.8	0.00013	No	0.000014	No	0.000043	No
GESPM091422-275	2	10/12/22	1762.89	0.000023	No	0.0000025	No	0.0000046	No
GESPM091422-276	1	10/13/22	1707.63	0.000098	No	0.0000033	No	0.0000081	No
GESPM091422-277	2	10/13/22	1737.47	0.000019	No	0.0000027	No	0.0000047	No
GESPM091422-278	1	10/13/22 ²	541.52	0.00012	No	0.0000048	No	0.0000092	No
GESPM091422-279	2	10/13/22 ²	555.95	0.000033	No	0.0000042	No	0.000006	No
GESPM091422-280	1	10/18/22	1695.45	0.000095	No	0.0000041	No	0.000011	No
GESPM091422-281	2	10/18/22	1764.97	0.000036	No	0.0000025	No	0.0000061	No
GESPM091422-282	1	10/19/22	1745.47	0.00021	No	0.0000041	No	0.000017	No
GESPM091422-283	2	10/19/22	1779.71	0.000062	No	0.0000027	No	0.000013	No
GESPM091422-284	1	10/20/22	1720.57	0.000097	No	0.0000046	No	0.000018	No
GESPM091422-285	2	10/20/22	1750.65	0.000019	No	0.0000037	No	0.00001	No
GESPM091422-286	1	10/20/22 ²	481.74	0.00009	No	0.0000061	No	0.000016	No
GESPM091422-287	2	10/20/22 ²	492.35	0.000044	No	0.0000045	No	0.0000095	No
GESPM091422-288	1	10/25/22	1675.09	0.00011	No	0.0000073	No	0.00002	No
GESPM100322-361	2	10/25/22	1755.85	0.000019	No	0.0000021	No	0.0000064	No
GESPM100322-362	1	10/26/22	1715.94	0.00014	No	0.0000062	No	0.000017	No
GESPM100322-363	2	10/26/22	1753.5	0.000016	No	0.0000024	No	0.000005	No
GESPM100322-364	1	10/27/22	1695.24	0.00017	No	0.0000075	No	0.000018	No
GESPM100322-365	2	10/27/22	711.25 ³	0.000041	No	0.0000031	No	0.0000093	No
GESPM100322-366	1	10/27/22 ²	593.09	0.00016	No	0.0000063	No	0.000019	No
GESPM100322-367	2	10/27/22 ²	609.62	0.00018	No	0.000003	No	0.0000077	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.

³ Generator malfunction

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 5
TOTAL SUSPENDED PARTICULATES
MONITORING RESULTS

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Attachment 5: 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)
GESTSP090622-264	1	10/04/22	1623.96	0.0828			
GESTSP090622-265	2	10/04/22	1751.00	0.0321	-0.051	0.5	No
GESTSP090622-266	1	10/05/22	1643.58	0.0420			
GESTSP090622-267	2	10/05/22	1762.44	0.0364	-0.006	0.5	No
GESTSP090622-268	1	10/06/22	1657.21	0.0352			
GESTSP090622-269	2	10/06/22	1769.22	0.0218	-0.013	0.5	No
GESTSP090622-270	1	10/6/22 ²	475.77	0.0486			
GESTSP091422-271	2	10/6/22 ²	511.73	0.0211	-0.0275	0.5	No
GESTSP091422-272	1	10/11/22	1577.11	0.0237			
GESTSP091422-273	2	10/11/22	1734.89	0.0274	0.004	0.5	No
GESTSP091422-274	1	10/12/22	1639.06	0.0645			
GESTSP091422-275	2	10/12/22	1766.48	0.0438	-0.021	0.5	No
GESTSP091422-276	1	10/13/22	1624.49	0.0394			
GESTSP091422-277	2	10/13/22	1741.14	0.0350	-0.004	0.5	No
GESTSP091422-278	1	10/13/22 ²	518.15	0.0103 J			
GESTSP091422-279	2	10/13/22 ²	555.85	0.0306	0.0203	0.5	No
GESTSP091422-280	1	10/18/22	1619.45	0.0357			
GESTSP091422-281	2	10/18/22	1745.43	0.0324	-0.003	0.5	No
GESTSP091422-282	1	10/19/22	1659.65	0.0468			
GESTSP091422-283	2	10/19/22	1779.66	0.0442	-0.0026	0.5	No
GESTSP091422-284	1	10/20/22	1636.71	0.0447			
GESTSP091422-285	2	10/20/22	1753.4	0.0299	-0.0148	0.5	No
GESTSP091422-286	1	10/20/22 ²	460.42	0.0332			
GESTSP091422-287	2	10/20/22 ²	490.90	0.0342	0.0010	0.5	No
GESTSP091422-288	1	10/25/22	1599.97	0.0447			
GESTSP100322-361	2	10/25/22	1746.73	0.0177	-0.027	0.5	No
GESTSP100322-362	1	10/26/22	1648.33	0.0623			
GESTSP100322-363	2	10/26/22	1764.12	0.0400	-0.022	0.5	No
GESTSP100322-364	1	10/27/22	1525.01	0.0574			
GESTSP100322-365	2	10/27/22	709.23 ³	0.0472	-0.010	0.5	No
GESTSP100322-366	1	10/27/22 ²	568.10	0.0364			
GESTSP100322-367	2	10/27/22 ²	611.08	0.0388	0.002	0.5	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.

³ Generator malfunction

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

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

m³ = cubic meters

mg/m³ = milligrams per cubic meter

ATTACHMENT 6
AIR SAMPLING RESULTS –
PUBLIC EXPOSURE MONITORING

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AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information								Effluent Air Concentration				Sampling Period				Color Codes						
Contract / Task Order Number: N62473-17-D-0005 / F4332		Project Title / Location: HPNS Parcel E Phase 2 RA / San Francisco, CA			GES Project Number: J310000400			Radionuclide		Alpha	Beta		Air samples collected between 03 Oct 2022 and 31 Oct 2022				Value < 0.1 x Effluent Conc (i.e., < 10%)					
Information effective as of: 07 Nov 2022								Effluent Conc (µCi/ml)		9.E-13	6.E-12		Value > 0.1 x Effluent Conc (i.e., > 10%)				Value > Effluent Conc (i.e., > 100%)					
Sample Collection								Count Information						Sample Results				Initials				
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0705	Perimeter	MSE01	PE13	50	10/3/22 6:50	10/3/22 15:26	516	2.6E+07	B	10/11/22	1	cpm	0.10	5.25	0.0	8.8	0.0E+00	1.5E-13	0.0%	2.6%	DFB	BCS
AS-0706	Perimeter	MSE02	PE14	50	10/3/22 6:40	10/3/22 15:29	529	2.6E+07	B	10/11/22	1	cpm	0.15	5.05	0.2	8.3	2.9E-15	1.4E-13	0.3%	2.3%	DFB	BCS
AS-0707	Perimeter	MSE01	PE13	50	10/4/22 3:25	10/4/22 15:25	720	3.6E+07	B	10/11/22	1	cpm	0.10	4.00	0.0	5.2	0.0E+00	6.5E-14	0.0%	1.1%	DFB	BCS
AS-0708	Perimeter	MSE02	PE14	50	10/4/22 3:20	10/4/22 15:27	727	3.6E+07	B	10/11/22	1	cpm	0.05	5.10	-0.2	8.4	N/A	1.0E-13	N/A	1.7%	DFB	BCS
AS-0709	Perimeter	MSE01	PE13	50	10/5/22 3:30	10/5/22 15:25	715	3.6E+07	B	10/11/22	1	cpm	0.15	4.50	0.2	6.7	2.1E-15	8.4E-14	0.2%	1.4%	DFB	BCS
AS-0710	Perimeter	MSE02	PE14	50	10/5/22 3:25	10/5/22 15:29	724	3.6E+07	B	10/11/22	1	cpm	0.25	4.60	0.5	7.0	6.3E-15	8.7E-14	0.7%	1.4%	DFB	BCS
AS-0711	Perimeter	MSE01	PE13	50	10/6/22 3:15	10/6/22 13:40	625	3.1E+07	B	10/11/22	1	cpm	0.10	4.20	0.0	5.8	0.0E+00	8.4E-14	0.0%	1.4%	DFB	BCS
AS-0712	Perimeter	MSE02	PE14	50	10/6/22 3:10	10/6/22 13:49	639	3.2E+07	B	10/11/22	1	cpm	0.10	4.45	0.0	6.5	0.0E+00	9.2E-14	0.0%	1.5%	DFB	BCS
AS-0713	Perimeter	MSE01	PE13	50	10/10/22 7:00	10/10/22 15:16	496	2.5E+07	B	10/17/22	1	cpm	0.30	3.60	0.7	4.1	1.2E-14	7.4E-14	1.4%	1.2%	DFB	BCS
AS-0714	Perimeter	MSE02	PE14	50	10/10/22 7:00	10/10/22 15:20	500	2.5E+07	B	10/17/22	1	cpm	0.15	3.80	0.2	4.6	3.0E-15	8.4E-14	0.3%	1.4%	DFB	BCS
AS-0715	Perimeter	MSE01	PE13	50	10/11/22 4:20	10/11/22 15:20	660	3.3E+07	B	10/17/22	1	cpm	0.15	6.50	0.2	12.5	2.3E-15	1.7E-13	0.3%	2.8%	DFB	BCS
AS-0716	Perimeter	MSE02	PE14	50	10/11/22 4:15	10/11/22 15:22	667	3.3E+07	B	10/17/22	1	cpm	0.25	6.15	0.5	11.4	6.8E-15	1.5E-13	0.8%	2.6%	DFB	BCS
AS-0717	Perimeter	MSE01	PE13	50	10/12/22 4:05	10/12/22 15:15	670	3.3E+07	B	10/17/22	1	cpm	0.20	5.35	0.3	9.1	4.5E-15	1.2E-13	0.5%	2.0%	DFB	BCS
AS-0718	Perimeter	MSE02	PE14	50	10/12/22 4:00	10/12/22 15:33	693	3.5E+07	B	10/17/22	1	cpm	0.15	5.25	0.2	8.8	2.2E-15	1.1E-13	0.2%	1.9%	DFB	BCS
AS-0719	Perimeter	MSE01	PE13	50	10/13/22 4:20	10/13/22 13:56	576	2.9E+07	B	10/17/22	1	cpm	0.30	4.75	0.7	7.4	1.1E-14	1.2E-13	1.2%	1.9%	DFB	BCS
AS-0720	Perimeter	MSE02	PE14	50	10/13/22 4:15	10/13/22 14:00	585	2.9E+07	B	10/17/22	1	cpm	0.35	4.50	0.8	6.7	1.3E-14	1.0E-13	1.4%	1.7%	DFB	BCS
AS-0721	Perimeter	MSE01	PE13	50	10/17/22 6:40	10/17/22 13:56	436	2.2E+07	B	10/24/22	1	cpm	0.20	4.40	0.3	6.4	7.0E-15	1.3E-13	0.8%	2.2%	DFB	BCS
AS-0722	Perimeter	MSE02	PE14	50	10/17/22 6:50	10/17/22 14:12	442	2.2E+07	B	10/24/22	1	cpm	0.10	4.00	0.0	5.2	0.0E+00	1.1E-13	0.0%	1.8%	DFB	BCS
AS-0723	Perimeter	MSE01	PE13	50	10/18/22 3:30	10/18/22 15:43	733	3.7E+07	B	10/24/22	1	cpm	0.10	0.50	0.0	-4.9	0.0E+00	N/A	0.0%	N/A	DFB	BCS
AS-0724	Perimeter	MSE02	PE14	50	10/18/22 3:25	10/18/22 15:49	744	3.7E+07	B	10/24/22	1	cpm	0.25	5.05	0.5	8.3	6.1E-15	1.0E-13	0.7%	1.7%	DFB	BCS
AS-0725	Perimeter	MSE01	PE13	50	10/19/22 3:25	10/19/22 15:04	699	3.5E+07	B	10/24/22	1	cpm	0.05	5.45	-0.2	9.4	N/A	1.2E-13	N/A	2.0%	DFB	BCS
AS-0726	Perimeter	MSE02	PE14	50	10/19/22 3:20	10/19/22 15:07	707	3.5E+07	B	10/24/22	1	cpm	0.05	5.80	-0.2	10.4	N/A	1.3E-13	N/A	2.2%	DFB	BCS
AS-0727	Perimeter	MSE01	PE13	50	10/20/22 3:25	10/20/22 13:44	619	3.1E+07	B	10/24/22	1	cpm	0.15	4.85	0.2	7.7	2.5E-15	1.1E-13	0.3%	1.9%	DFB	BCS
AS-0728	Perimeter	MSE02	PE14	50	10/20/22 3:20	10/20/22 13:49	629	3.1E+07	B	10/24/22	1	cpm	0.10	4.60	0.0	7.0	0.0E+00	1.0E-13	0.0%	1.7%	DFB	BCS
AS-0729	Perimeter	MSE01	PE13	50	10/24/22 6:40	10/24/22 15:21	521	2.6E+07	B	10/31/22	1	cpm	0.15	4.25	0.2	5.9	2.9E-15	1.0E-13	0.3%	1.7%	JSV	BCS
AS-0730	Perimeter	MSE02	PE14	50	10/24/22 7:00	10/24/22 15:23	503	2.5E+07	B	10/31/22	1	cpm	0.15	4.25	0.2	5.9	3.0E-15	1.1E-13	0.3%	1.8%	JSV	BCS
AS-0731	Perimeter	MSE01	PE13	50	10/25/22 3:35	10/25/22 15:56	741	3.7E+07	B	10/31/22	1	cpm	0.15	3.90	0.2	4.9	2.0E-15	6.0E-14	0.2%	1.0%	JSV	BCS
AS-0732	Perimeter	MSE02	PE14	50	10/25/22 3:30	10/25/22 15:27	717	3.6E+07	B	10/31/22	1	cpm	0.05	3.95	-0.2	5.1	N/A	6.4E-14	N/A	1.1%	JSV	BCS
AS-0733	Perimeter	MSE01	PE13	50	10/26/22 4:20	10/26/22 15:34	674	3.4E+07	B	10/31/22	1	cpm	0.05	5.55	-0.2	9.7	N/A	1.3E-13	N/A	2.2%	JSV	BCS
AS-0734	Perimeter	MSE02	PE14	50	10/26/22 4:15	10/26/22 15:37	682	3.4E+07	B	10/31/22	1	cpm	0.20	4.20	0.3	5.8	4.4E-15	7.7E-14	0.5%	1.3%	JSV	BCS
AS-0735	Perimeter	MSE01	PE13	50	10/27/22 6:45	10/27/22 15:12	507	2.5E+07	B	10/31/22	1	cpm	0.35	4.30	0.8	6.1	1.5E-14	1.1E-13	1.7%	1.8%	JSV	BCS
AS-0736	Perimeter	MSE02	PE14	50	10/27/22 4:20	10/27/22 15:21	661	3.3E+07	B	10/31/22	1	cpm	0.25	4.65	0.5	7.1	6.9E-15	9.7E-14	0.8%	1.6%	JSV	BCS
AS-0737	Perimeter	MSE01	PE13	50	10/31/22 6:55	10/31/22 15:25	510	2.5E+07	B	11/07/22	1	cpm	0.15	5.15	0.2	8.6	3.0E-15	1.5E-13	0.3%	2.5%	JSV	BCS
AS-0738	Perimeter	MSE02	PE14	50	10/31/22 6:40	10/31/22 15:22	522	2.6E+07	B	11/07/22	1	cpm	0.20	4.95	0.3	8.0	5.8E-15	1.4E-13	0.6%	2.3%	JSV	BCS

ATTACHMENT 7

LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 22100424



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/05/2022 14:46
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-092922	9/29/2022 14:31	Cassette	22100424.01
MSE02-092922	9/29/2022 14:54	Cassette	22100424.02
MSE01-100322	10/3/2022 15:31	Cassette	22100424.03
MSE02-100322	10/3/2022 15:26	Cassette	22100424.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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

10/12/2022



**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 # 30080**

Date 10/12/202

Job ID : 22100424
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400								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
22100424.01	MSE01-092922	09/29/2022	Area	2			451	902	100	2.0	2.548	< 0.003		10/07/22	[REDACTED]
22100424.02	MSE02-092922	09/29/2022	Area	2			482	964	100	3.5	4.459	< 0.003		10/07/22	[REDACTED]
22100424.03	MSE01-100322	10/03/2022	Area	2			516	1032	100	18.0	22.930	0.009		10/07/22	[REDACTED]
22100424.04	MSE02-100322	10/03/2022	Area	2			532	1064	100	5	6.369	< 0.003		10/07/22	[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



Sample Condition Checklist

A&B JobID : 22100424	Date Received : 10/05/2022	Time Received : 2:46PM		
Client Name : GES - ASRC Industrial				
Temperature : 19.9°C	Sample pH : n/a			
Thermometer ID : IR4	pH Paper ID : n/a			
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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
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. ■ 10-5-22

Received by : ■

Check in by/date : ■ / 10/05/2022

ab-s005-0321

Event ID: Air Monitoring

COC# KT100422ASBE



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs 10/04/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22100424



10/05/2022 GES - ASRC Industrial ACH

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-092922	01A	09/29/2022	1431	NA	NA	1	AA	X		451
MSE02-092922	02A	09/29/2022	1454	NA	NA	1	AA	X		482
MSE01-100322	03A	10/03/2022	1531	NA	NA	1	AA	X		516
MSE02-100322	04A	10/03/2022	1526	NA	NA	1	AA	X		532

[Redacted] 10/4/22

Sampled By: [Redacted]	Sampler: [Redacted]	Courier/Airbill No.: FedEx/ 7700 9602 0725				
Signature: [Redacted]	Relinquished By/Affiliation: [Redacted]	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions:	[Redacted]	10/04/22	1600	FEDEX [Redacted]	10/04/22	1600
	FEDEX	10-5-22		[Redacted]	10-5-22	1446
Send Results to: [Redacted]						
Turnaround Time: <u>Standard</u>						

TEMP. 19.9°C IRL

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

SHIP DATE: 04OCT22
ACTWGT: 1.00 LB
CAD: 254128867/NET4530

BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-8080 REF: 101000400001H04
INV DEPT

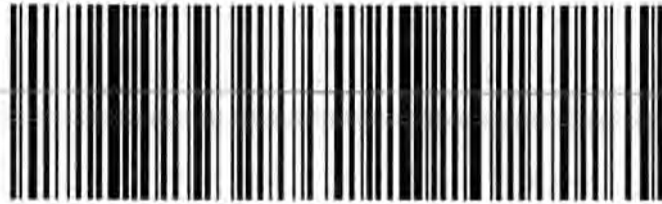


WED - 05 OCT 4:30P
STANDARD OVERNIGHT

TRK# 7700 9602 0725
0201

UL HBYA

77029
TX-US IAH



After printing this label:

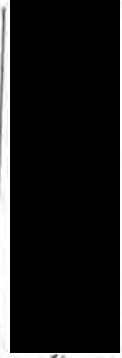
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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CUSTOMER
← SEM

Date: 10-4-22

Signature:



Laboratory Analysis Report

Job ID : 22100665



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/07/2022 02:44
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-100422	10/4/2022 15:22	Cassette	22100665.01
MSE02-100422	10/4/2022 15:17	Cassette	22100665.02
MSE01-100522	10/5/2022 15:18	Cassette	22100665.03
MSE02-100522	10/5/2022 15:22	Cassette	22100665.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

10/14/2022



**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 10/14/202

Job ID : 22100665
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										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
22100665.01	MSE01-100422	10/04/2022	Area	2			526	1052	100	8.5	10.828	0.004		10/14/22	[REDACTED]
22100665.02	MSE02-100422	10/04/2022	Area	2			531	1062	100	6	7.643	0.003		10/14/22	[REDACTED]
22100665.03	MSE01-100522	10/05/2022	Area	2			523	1046	100	6	7.643	0.003		10/14/22	[REDACTED]
22100665.04	MSE02-100522	10/05/2022	Area	2			535	1070	100	7.0	8.917	0.003		10/14/22	[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



Sample Condition Checklist

A&B JobID : 22100665	Date Received : 10/07/2022	Time Received : 2:44AM		
Client Name : GES - ASRC Industrial				
Temperature : 26.9°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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 No cooler was received, however samples are received in a box with a custody seal. Cassette=Black cassettes. ■ 10/07/22

Received by : ■

Check in by/date : ■ / 10/07/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 10/06/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22100665



10/07/2022 GES - ASRC Industrial ACH

Analysis:

OIA
022
030
040

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos	Preservative:	Container Type:	Filter	Flow Rate = 2 L/min	Special Instructions/Comments	Total Time (min)
MSE01-100422	10/04/2022	1522	NA	NA	1	AA	X	None					526
MSE02-100422	10/04/2022	1517	NA	NA	1	AA	X						531
MSE01-100522	10/05/2022	1518	NA	NA	1	AA	X						523
MSE02-100522	10/05/2022	1522	NA	NA	1	AA	X						535

10/6/22
[Redacted]

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7701 2138 2840

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 10/6/22 Time: 1600 Received By/ Affiliation: Fedex Date: 10/6/22 Time: 1600

Special Instructions: [Redacted] [Redacted] 10-7-22 14:44 [Redacted] 10-7-22 14:44

Send Results to: [Redacted]

Turnaround Time: Standard

26.9°C [Redacted]

ORIGIN ID: JCCA [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 06OCT22
ACTWGT: 1.00 LB
CAD: 254128867/NET4530

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

561 J1AC5FFEZD

HOUSTON TX 77029

(713) 453-6060 REF 3100040001804
INV PO DEPT

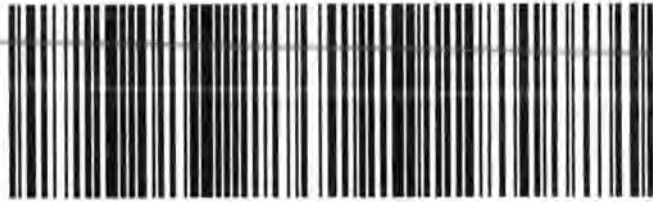


FRI - 07 OCT 4:30P
STANDARD OVERNIGHT

TRK# 7701 2138 2840
0201

UL HBYA

77029
TX-US IAH



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

Laboratory Analysis Report

Job ID : 22101101



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/13/2022 08:58
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-100622	10/6/2022 13:53	Cassette	22101101.01
MSE02-100622	10/6/2022 13:39	Cassette	22101101.02
MSE01-101022	10/10/2022 15:21	Cassette	22101101.03
MSE02-101022	10/10/2022 15:27	Cassette	22101101.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

10/20/2022



**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 10/20/202

Job ID : 22101101
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400								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
22101101.01	MSE01-100622	10/06/2022	Area	2			435	870	100	2.5	3.185	< 0.003		10/20/22	[REDACTED]
22101101.02	MSE02-100622	10/06/2022	Area	2			428	856	100	1	1.274	< 0.003		10/20/22	[REDACTED]
22101101.03	MSE01-101022	10/10/2022	Area	2			528	1056	100	5.5	7.006	0.003		10/20/22	[REDACTED]
22101101.04	MSE02-101022	10/10/2022	Area	2			527	1054	100	6.5	8.280	0.003		10/20/22	[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



Sample Condition Checklist

A&B JobID : 22101101	Date Received : 10/13/2022	Time Received : 8:58AM		
Client Name : GES - ASRC Industrial				
Temperature : 22.2°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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
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. Received samples in black cassettes. ~ 10/13/2022

Received by : ██████████

Check in by/date : ██████████ / 10/13/2022

ab-s005-0321

Event ID: Air Monitoring

COC# KT101122ASBE



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 10/11/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22101101



10/13/2022 GES - ASRC Industrial ACH

01A
02A
03A
04A

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-100622	10/06/2022	1353	NA	NA	1	AA	X	None		435
MSE02-100622	10/06/2022	1339	NA	NA	1	AA	X	None		428
MSE01-101022	10/10/2022	1521	NA	NA	1	AA	X	Container Type: F filter		528
MSE02-101022	10/10/2022	1527	NA	NA	1	AA	X			527
N/A [Redacted] 10-11-22										

Lab

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7701 7243 0159

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 10-11-22 Time: 1600 Received By/ Affiliation: FEDEX Date: 10-11-22 Time: 1600

Special Instructions: [Redacted] FedEx 10/13/22 8:58 [Redacted] 10/13/22 8:58

Send Results to: [Redacted]

Turnaround Time: Standard

22.2 IR4

ORIGIN ID: ICCA
200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 11OCT22
ACTWGT: 1.00 LB
CAD: 254128867/NET4530

BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100

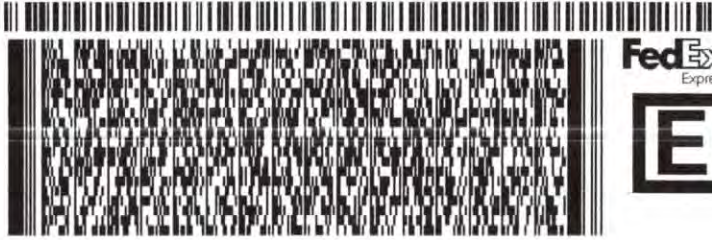
HOUSTON TX 77029

(713) 453-6060

REF JB1000.400.00.18.04

INV
PO

DEPT:



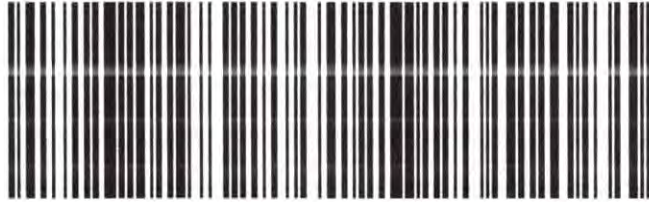
581J1AC5F/FE2D

WED - 12 OCT 4:30P
STANDARD OVERNIGHT

TRK# 7701 7243 0159
0201

UL HBYA

77029
TX-US IAH



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Laboratory Analysis Report

Job ID : 22101353



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/14/2022 15:08
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-101122	10/11/2022 15:26	Cassette	22101353.01
MSE02-101122	10/11/2022 15:19	Cassette	22101353.02
MSE01-101222	10/12/2022 15:27	Cassette	22101353.03
MSE02-101222	10/12/2022 15:16	Cassette	22101353.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

10/21/2022



**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 10/21/2022

Job ID : 22101353
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										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
22101353.01	MSE01-101122	10/11/2022	Area	2			518	1036	100	12.5	15.924	0.006		10/21/22	[REDACTED]
22101353.02	MSE02-101122	10/11/2022	Area	2			521	1042	100	8.5	10.828	0.004		10/21/22	[REDACTED]
22101353.03	MSE01-101222	10/12/2022	Area	2			518	1036	100	0.5	0.637	< 0.003		10/21/22	[REDACTED]
22101353.04	MSE02-101222	10/12/2022	Area	2			515	1030	100	6.5	8.280	0.003		10/21/22	[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



Sample Condition Checklist

A&B JobID : 22101353	Date Received : 10/14/2022	Time Received : 3:08PM		
Client Name : GES - ASRC Industrial				
Temperature : 22.3°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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 No cooler was received, however samples are received in a box with a custody seal. Cassette=Black Cassetts. [REDACTED] 10/17/22

Received by : [REDACTED]

Check in by/date : [REDACTED] / 10/17/2022

ab-s005-0321

Event ID: Air Monitoring

COC# KT101322ASBE



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 10/13/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

01 P
02 P
03 P
04 P

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
							None	Container Type:		
							F	Filter		
MSE01-101122	10/11/2022	1526	NA	NA	1	AA	X			518
MSE02-101122	10/11/2022	1519	NA	NA	1	AA	X			521
MSE01-101222	10/12/2022	1527	NA	NA	1	AA	X			518
MSE02-101222	10/12/2022	1516	NA	NA	1	AA	X			515

Job ID:22101353



10/14/2022 GES - ASRC Industrial ACH

10/13/22



Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7701 8985 0992				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>[Redacted]</u>	<u>[Redacted]</u>	10/13/22	1600	FEDEX	10/13/22	1600
	Fed ex	10/14/22	15:07	[Redacted]	10/14/22	1508
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

22.3
TR4

ORIGIN ID: ICCA
200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 1.00 LB
CAD: 254128867/NET4530

BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100
HOUSTON TX 77029

561 J1 ACSF FE20

(713) 453-6060 REF: 031000 400 00 18 04
INV PO DEPT

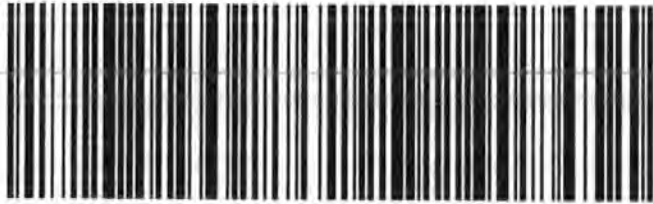


FRI - 14 OCT 4:30P
STANDARD OVERNIGHT

TRK# 7701 8985 0992
0201

UL HBYA

77029 IAH
TX-US



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Laboratory Analysis Report

Job ID : 22101735



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/19/2022 15:35
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-101322	10/13/2022 14:19	Cassette	22101735.01
MSE02-101322	10/13/2022 14:04	Cassette	22101735.02
MSE01-101722	10/17/2022 14:22	Cassette	22101735.03
MSE02-101722	10/17/2022 14:15	Cassette	22101735.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

10/26/2022



**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 10/26/202

Job ID : 22101735
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400								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
22101735.01	MSE01-101322	10/13/2022	Area	2			464	928	100	1.0	1.274	< 0.003		10/21/22	[REDACTED]
22101735.02	MSE02-101322	10/13/2022	Area	2			459	918	100	7.0	8.917	0.004		10/21/22	[REDACTED]
22101735.03	MSE01-101722	10/17/2022	Area	2			465	930	100	4.0	5.096	< 0.003		10/21/22	[REDACTED]
22101735.04	MSE02-101722	10/17/2022	Area	2			470	940	100	3.5	4.459	< 0.003		10/21/22	[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



Sample Condition Checklist

A&B JobID : 22101735	Date Received : 10/19/2022	Time Received : 3:35PM		
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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
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. Received black cassettes. ~ 10/19/2022

Received by : ██████████

Check in by/date : ██████████ / 10/19/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 10/18/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22101735



10/19/2022 GES - ASRC Industrial ACH

Analysis:

O1A
O2A
O3A
O4A

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Preservative:	None		
							Container Type:	Filter		
MSE01-101322	10/13/2022	1419	NA	NA	1	AA	X			464
MSE02-101322	10/13/2022	1404	NA	NA	1	AA	X			459
MSE01-101722	10/17/2022	1422	NA	NA	1	AA	X			465
MSE02-101722	10/17/2022	1415	NA	NA	1	AA	X			470

10/18/2022



Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7702 2362 2047				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>[Redacted]</u>	<u>Fed ex</u>	10/18/22	1600	<u>FED EX</u>	10/18/22	1600
		10/19/22	15:35	<u>[Redacted]</u>	10/19/22	15:35
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

22.0 IR4



ORIGIN ID: JCCA [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 18OCT22
ACTWGT: 1.00 LB
CAD: 254128867/INET4530

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060

REF JB1000.400.00.18.04

INV
PO

DEPT



581J1VAC5FFE20

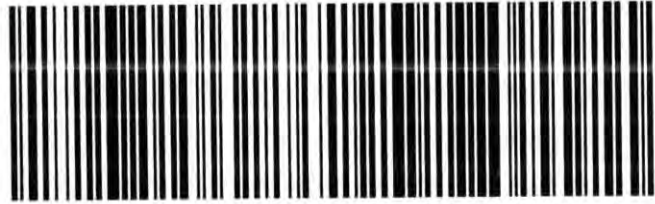
J224022108601ur

WED - 19 OCT 4:30P
STANDARD OVERNIGHT

TRK# 7702 2362 2047
0201

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Laboratory Analysis Report

Job ID : 22102017



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

Client Project Name :
HPNS Parcel E Phase II 1310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/21/2022 15:35
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-101822	10/18/2022 15:48	Cassette	22102017.01
MSE02-101822	10/18/2022 15:43	Cassette	22102017.02
MSE01-101922	10/19/2022 15:24	Cassette	22102017.03
MSE02-101922	10/19/2022 15:18	Cassette	22102017.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

10/28/2022



**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 # 30080**

Date 10/28/202

Job ID : 22102017
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II 1310000400										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
22102017.01	MSE01-101822	10/18/2022	Area	2			549	1098	100	1.5	1.911	< 0.002		10/24/22	[REDACTED]
22102017.02	MSE02-101822	10/18/2022	Area	2			558	1116	100	2	2.548	< 0.002		10/24/22	[REDACTED]
22102017.03	MSE01-101922	10/19/2022	Area	2			532	1064	100	9.0	11.465	0.004		10/24/22	[REDACTED]
22102017.04	MSE02-101922	10/19/2022	Area	2			516	1032	100	1	1.274	< 0.003		10/24/22	[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



Sample Condition Checklist

A&B JobID : 22102017	Date Received : 10/21/2022	Time Received : 3:35PM		
Client Name : GES - ASRC Industrial				
Temperature : 22.1°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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 No cooler was received, however samples are received in a box with a custody seal. ~ [redacted] 10/21/22

Received by : [redacted]

Check in by/date : [redacted] / 10/21/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 10/20/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
							None	Container Type:		
							F	i	lter	
MSE01-101822	10/18/2022	1548	NA	NA	1	AA	X			549
MSE02-101822	10/18/2022	1543	NA	NA	1	AA	X			558
MSE01-101922	10/19/2022	1524	NA	NA	1	AA	X			532
MSE02-101922	10/19/2022	1518	NA	NA	1	AA	X			516

Job ID: 22102017



10/21/2022 GES - ASRC Industrial ACH

[Redacted] 10/20/22

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7702 5175 5957				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>Fed ex</u>	<u>10/20/22</u>	<u>1600</u>	<u>FEDEX</u>	<u>10/20/22</u>	<u>1600</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

22.1
IR4

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

SHIP DATE: 20OCT22
ACTWGT: 1.00 LB
CAD: 254128867/NET4530

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-8060
INV
PO

REF .G31000 400 00 18 04

DEPT



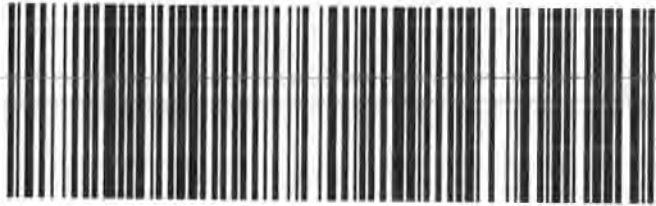
5811/ACSF/FE2D

TRK# 7702 5175 5957
0201

FRI - 21 OCT 4:30P
STANDARD OVERNIGHT

UL HBYA

77029
TX-US IAH



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Laboratory Analysis Report

Job ID : 22102404



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/26/2022 15:15
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-102022	10/20/2022 13:33	Cassette	22102404.01
MSE02-102022	10/20/2022 13:21	Cassette	22102404.02
MSE01-102422	10/24/2022 15:33	Cassette	22102404.03
MSE02-102422	10/24/2022 15:27	Cassette	22102404.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

11/2/2022



**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 # 30080**

Date 11/2/2022

Job ID : 22102404
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400							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
22102404.01	MSE01-102022	10/20/2022	Area	2			414	828	100	4.5	5.732	< 0.003		11/02/22	[REDACTED]
22102404.02	MSE02-102022	10/20/2022	Area	2			413	826	100	4.5	5.732	< 0.003		11/02/22	[REDACTED]
22102404.03	MSE01-102422	10/24/2022	Area	2			519	1038	100	10	12.739	0.005		11/02/22	[REDACTED]
22102404.04	MSE02-102422	10/24/2022	Area	2			536	1072	100	4.5	5.732	< 0.003		11/02/22	[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



Sample Condition Checklist

A&B JobID : 22102404	Date Received : 10/26/2022	Time Received : 3:15PM		
Client Name : GES - ASRC Industrial				
Temperature : 22.1°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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
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:
 Samples were received in black cassettes. No cooler was received, however samples are received in a box with a custody seal. ~ 10/26/2022

Received by : ██████████

Check in by/date : ██████████ / 10/26/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 10/25/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)	
							Asbestos	Preservative:	Container Type:			
								F	i	lter		
01A MSE01-102022	10/20/2022	1333	NA	NA	1	AA	X					414
02A MSE02-102022	10/20/2022	1321	NA	NA	1	AA	X					413
03A MSE01-102422	10/24/2022	1533	NA	NA	1	AA	X					519
04A MSE02-102422	10/24/2022	1527	NA	NA	1	AA	X					536

Job ID: 22102404



10/26/2022 GES - ASRC Industrial ACH

10/25/22

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7702 8931 5901				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>[Redacted]</u>	<u>[Redacted]</u>	10/25/22	1600	FedEx	10/25/22	1600
Send Results to: <u>[Redacted]</u>	<u>[Redacted]</u>	10/26	15:15	<u>[Redacted]</u>	10/26	15:15
Turnaround Time: <u>Standard</u>						

22.1
IR4

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 25OCT22
ACTWGT: 1.00 LB
CAD: 254128867/INET4530

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

581 J1/ACSF/FEZD



WED - 26 OCT 4:30P

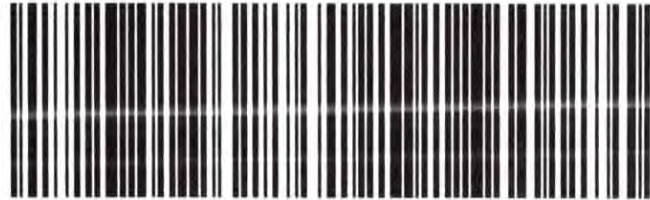
STANDARD OVERNIGHT

TRK#
0201

7702 8931 5901

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TX-US IAH



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Laboratory Analysis Report

Job ID : 22102679



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

Client Project Name :
HPNS Parcel E Phase II J1310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/28/2022 15:47
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-102522	10/25/2022 15:36	Cassette	22102679.01
MSE02-102522	10/25/2022 15:31	Cassette	22102679.02
MSE01-102622	10/26/2022 15:44	Cassette	22102679.03
MSE02-102622	10/26/2022 15:39	Cassette	22102679.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

11/4/2022



**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 11/4/2022

Job ID : 22102679
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J1310000400							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
22102679.01	MSE01-102522	10/25/2022	Area	2			541	1082	100	7.5	9.554	0.003		11/02/22	[REDACTED]
22102679.02	MSE02-102522	10/25/2022	Area	2			542	1084	100	5	6.369	< 0.002		11/02/22	[REDACTED]
22102679.03	MSE01-102622	10/26/2022	Area	2			532	1064	100	5.5	7.006	0.003		11/02/22	[REDACTED]
22102679.04	MSE02-102622	10/26/2022	Area	2			538	1076	100	3	3.822	< 0.003		11/02/22	[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



Sample Condition Checklist

A&B JobID : 22102679	Date Received : 10/28/2022	Time Received : 3:47PM		
Client Name : GES - ASRC Industrial				
Temperature : 22.1°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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Cassette=Black cassette. [REDACTED] 10/28/22

Received by : [REDACTED]

Check in by/date : [REDACTED] / 10/28/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs 10/27/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Special Instructions/Comments Total Time (min)	
							Asbestos	Preservative:	Container Type:		
								F	i	Iter	
MSE01-102522	10/25/2022	1536	NA	NA	1	AA	X				541
MSE02-102522	10/25/2022	1531	NA	NA	1	AA	X				542
MSE01-102622	10/26/2022	1544	NA	NA	1	AA	X				532
MSE02-102622	10/26/2022	1539	NA	NA	1	AA	X				538

018
025
038
048

Job ID: 22102679



10/28/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7703 1539 1640			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date: Time:
Special Instructions: <u>[Redacted]</u>	<u>Fed ex</u>	10/27/22	1600	<u>FedEx</u>	10/27/22 1600
		10/28	15:47	<u>[Redacted]</u>	10/28 15:17
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					

22.1
IR4

ORIGINATOR

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 27OCT22
ACTWGT: 1.00 LB
CAD: 254128867/INET4530

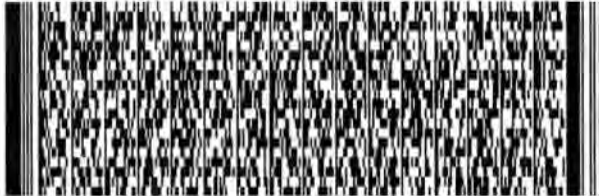
BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060 REF J31000400 00 18 04
INV DEPT
PO



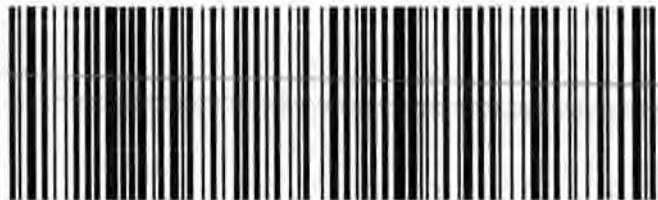
JJ242211181414

TRK# 7703 1539 1640
0201

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50 J11ACSFFEDU

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Laboratory Analysis Report

Job ID : 22110307



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 11/02/2022 15:07
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-102722	10/27/2022 15:17	Cassette	22110307.01
MSE02-102722	10/27/2022 15:11	Cassette	22110307.02
MSE01-103122	10/31/2022 15:33	Cassette	22110307.03
MSE02-103122	10/31/2022 15:22	Cassette	22110307.04

[REDACTED]
Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

11/9/2022



**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 11/9/2022

Job ID : 22110307
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400							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
22110307.01	MSE01-102722	10/27/2022	Area	2			519	1038	100	5	6.369	< 0.003		11/03/22	[REDACTED]
22110307.02	MSE02-102722	10/27/2022	Area	2			523	1046	100	0.5	0.637	< 0.003		11/03/22	[REDACTED]
22110307.03	MSE01-103122	10/31/2022	Area	2			519	1038	100	5	6.369	< 0.003		11/03/22	[REDACTED]
22110307.04	MSE02-103122	10/31/2022	Area	2			535	1070	100	2	2.548	< 0.003		11/03/22	[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



Sample Condition Checklist

A&B JobID : 22110307	Date Received : 11/02/2022	Time Received : 3:07PM		
Client Name : GES - ASRC Industrial				
Temperature : 23.3°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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
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:
 Black Cassettes. No cooler was received, however samples are received in a box with a custody seal. ~ 11/02/22

Received by : ██████████

Check in by/date : ██████████ / 11/02/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 11/01/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22110307



11/02/2022 GES - ASRC Industrial ACH

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments
							Asbestos	Preservative:		
MSE01-102722	10/27/2022	1517	NA	NA	1	AA	X	None	519	DIA
MSE02-102722	10/27/2022	1511	NA	NA	1	AA	X	None	523	02A
MSE01-103122	10/31/2022	1533	NA	NA	1	AA	X	None	519	03A
MSE02-103122	10/31/2022	1522	NA	NA	1	AA	X	None	535	04A

[Redacted] 11/01/22

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7703 5848 3772				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>[Redacted]</u>	<u>[Redacted]</u>	11/01/22	1600	FedEx	11/01/22	1600
Send Results to: <u>[Redacted]</u>	<u>[Redacted]</u>			<u>[Redacted]</u>	11/02/22	1507
Turnaround Time: <u>Standard</u>						

23.3
124

10/31/22, 12:25 PM

FedEx Ship Manager - Print Your Label(s)

ORIGINATOR: [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 01NOV22
ACTWGT: 1.00 LB
CAD: 254128867/NET4530

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060 REF J31000400001804
INW DEPT
PO



6911045181FEZD

WED - 02 NOV 4:30P
STANDARD OVERNIGHT

TRK# 7703 5848 3772
0201

UL HBYA

77029
TX-US IAH



Date: 11/01/2022

[REDACTED]

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ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-92806-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS, LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

Authorized for release by:
10/19/2022 10:43:51 AM
[REDACTED], Project Manager I
[REDACTED]

Designee for
[REDACTED], Project Manager I
[REDACTED]

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Job ID: 320-92806-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-92806-1

Receipt

The samples were received on 10/5/2022 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.2° C.

Metals

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Client Sample ID: GESPM090622-262

Lab Sample ID: 320-92806-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0032		0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.10		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	35		0.94	0.94	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-262

Lab Sample ID: 320-92806-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.5745		0.9749	0.9749	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-263

Lab Sample ID: 320-92806-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017	J	0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.078		0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0035		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.87	0.87	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-263

Lab Sample ID: 320-92806-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.6009		0.8650	0.8650	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-264

Lab Sample ID: 320-92806-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.012		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.077		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.031		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	71		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-264

Lab Sample ID: 320-92806-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	82.8222		0.3079	0.3079	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-265

Lab Sample ID: 320-92806-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0019		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.020		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0058		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-265

Lab Sample ID: 320-92806-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.0959		0.2856	0.2856	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Client Sample ID: GESPM090622-262

Lab Sample ID: 320-92806-1

Date Collected: 09/29/22 14:31

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032		0.0023	0.00034	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:25	1
Copper	0.10		0.0045	0.00034	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:25	1
Manganese	0.010		0.0023	0.00032	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	35		0.94	0.94	ug/m3			10/06/22 11:30	1

Client Sample ID: GESTSP090622-262

Lab Sample ID: 320-92806-2

Date Collected: 09/29/22 14:31

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	47.5745		0.9749	0.9749	ug/m3 (Air)			10/06/22 14:30	1

Client Sample ID: GESPM090622-263

Lab Sample ID: 320-92806-3

Date Collected: 09/29/22 14:44

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017	J	0.0021	0.00031	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:35	1
Copper	0.078		0.0042	0.00031	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:35	1
Manganese	0.0035		0.0021	0.00029	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	29		0.87	0.87	ug/m3			10/06/22 11:30	1

Client Sample ID: GESTSP090622-263

Lab Sample ID: 320-92806-4

Date Collected: 09/29/22 14:44

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	34.6009		0.8650	0.8650	ug/m3 (Air)			10/06/22 14:30	1

Client Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Client Sample ID: GESPM090622-264

Lab Sample ID: 320-92806-5

Date Collected: 10/04/22 06:39

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.012		0.00070	0.00010	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:38	1
Copper	0.077		0.0014	0.00010	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:38	1
Manganese	0.031		0.00070	0.000098	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	71		0.29	0.29	ug/m3			10/06/22 11:30	1

Client Sample ID: GESTSP090622-264

Lab Sample ID: 320-92806-6

Date Collected: 10/04/22 06:39

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	82.8222		0.3079	0.3079	ug/m3 (Air)			10/06/22 14:30	1

Client Sample ID: GESPM090622-265

Lab Sample ID: 320-92806-7

Date Collected: 10/04/22 06:28

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0019		0.00068	0.00010	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:41	1
Copper	0.020		0.0014	0.00010	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:41	1
Manganese	0.0058		0.00068	0.000095	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	20		0.28	0.28	ug/m3			10/06/22 11:30	1

Client Sample ID: GESTSP090622-265

Lab Sample ID: 320-92806-8

Date Collected: 10/04/22 06:28

Matrix: Air

Date Received: 10/05/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	32.0959		0.2856	0.2856	ug/m3 (Air)			10/06/22 14:30	1

QC Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-623619/1-B
Matrix: Air
Analysis Batch: 623809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:15	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:15	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:15	1

Lab Sample ID: LCS 320-623619/2-B
Matrix: Air
Analysis Batch: 623809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.230		ug/m3 (Air)		96	86 - 111
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.251		ug/m3 (Air)		104	88 - 110

Lab Sample ID: LCSD 320-623619/3-B
Matrix: Air
Analysis Batch: 623809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.228		ug/m3 (Air)		95	86 - 111	1	15
Copper	0.240	0.238		ug/m3 (Air)		99	85 - 110	3	15
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110	3	15

QC Association Summary

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Metals

Pre Prep Batch: 623619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	Filter to Air	
320-92806-3	GESPM090622-263	Total/NA	Air	Filter to Air	
320-92806-5	GESPM090622-264	Total/NA	Air	Filter to Air	
320-92806-7	GESPM090622-265	Total/NA	Air	Filter to Air	
MB 320-623619/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-623619/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-623619/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 623630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	3050B	623619
320-92806-3	GESPM090622-263	Total/NA	Air	3050B	623619
320-92806-5	GESPM090622-264	Total/NA	Air	3050B	623619
320-92806-7	GESPM090622-265	Total/NA	Air	3050B	623619
MB 320-623619/1-B	Method Blank	Total/NA	Air	3050B	623619
LCS 320-623619/2-B	Lab Control Sample	Total/NA	Air	3050B	623619
LCSD 320-623619/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	623619

Analysis Batch: 623809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	6020	623630
320-92806-3	GESPM090622-263	Total/NA	Air	6020	623630
320-92806-5	GESPM090622-264	Total/NA	Air	6020	623630
320-92806-7	GESPM090622-265	Total/NA	Air	6020	623630
MB 320-623619/1-B	Method Blank	Total/NA	Air	6020	623630
LCS 320-623619/2-B	Lab Control Sample	Total/NA	Air	6020	623630
LCSD 320-623619/3-B	Lab Control Sample Dup	Total/NA	Air	6020	623630

General Chemistry

Pre Prep Batch: 623310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-2	GESTSP090622-262	Total/NA	Air	Filter to Air	
320-92806-4	GESTSP090622-263	Total/NA	Air	Filter to Air	
320-92806-6	GESTSP090622-264	Total/NA	Air	Filter to Air	
320-92806-8	GESTSP090622-265	Total/NA	Air	Filter to Air	

Analysis Batch: 625597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-2	GESTSP090622-262	Total/NA	Air	40CFR50 App B	623310
320-92806-4	GESTSP090622-263	Total/NA	Air	40CFR50 App B	623310
320-92806-6	GESTSP090622-264	Total/NA	Air	40CFR50 App B	623310
320-92806-8	GESTSP090622-265	Total/NA	Air	40CFR50 App B	623310

Analysis Batch: 625612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	PM10	
320-92806-3	GESPM090622-263	Total/NA	Air	PM10	
320-92806-5	GESPM090622-264	Total/NA	Air	PM10	
320-92806-7	GESPM090622-265	Total/NA	Air	PM10	

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Client Sample ID: GESPM090622-262

Lab Sample ID: 320-92806-1

Date Collected: 09/29/22 14:31

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623619	10/10/22 08:01	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	623630	10/10/22 08:20	█	EET SAC
Total/NA	Analysis	6020		1			623809	10/10/22 14:25	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0186 g	625612	10/06/22 11:30	█	EET SAC

Client Sample ID: GESTSP090622-262

Lab Sample ID: 320-92806-2

Date Collected: 09/29/22 14:31

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625597	10/06/22 14:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29	█	EET SAC

Client Sample ID: GESPM090622-263

Lab Sample ID: 320-92806-3

Date Collected: 09/29/22 14:44

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623619	10/10/22 08:01	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	623630	10/10/22 08:20	█	EET SAC
Total/NA	Analysis	6020		1			623809	10/10/22 14:35	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0166 g	625612	10/06/22 11:30	█	EET SAC

Client Sample ID: GESTSP090622-263

Lab Sample ID: 320-92806-4

Date Collected: 09/29/22 14:44

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625597	10/06/22 14:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29	█	EET SAC

Client Sample ID: GESPM090622-264

Lab Sample ID: 320-92806-5

Date Collected: 10/04/22 06:39

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623619	10/10/22 08:01	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	623630	10/10/22 08:20	█	EET SAC
Total/NA	Analysis	6020		1			623809	10/10/22 14:38	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.1213 g	625612	10/06/22 11:30	█	EET SAC

Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Client Sample ID: GESTSP090622-264

Lab Sample ID: 320-92806-6

Date Collected: 10/04/22 06:39

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625597	10/06/22 14:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29	█	EET SAC

Client Sample ID: GESPM090622-265

Lab Sample ID: 320-92806-7

Date Collected: 10/04/22 06:28

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623619	10/10/22 08:01	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	623630	10/10/22 08:20	█	EET SAC
Total/NA	Analysis	6020		1			623809	10/10/22 14:41	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0360 g	625612	10/06/22 11:30	█	EET SAC

Client Sample ID: GESTSP090622-265

Lab Sample ID: 320-92806-8

Date Collected: 10/04/22 06:28

Matrix: Air

Date Received: 10/05/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625597	10/06/22 14:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92806-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92806-1	GESPM090622-262	Air	09/29/22 14:31	10/05/22 09:55
320-92806-2	GESTSP090622-262	Air	09/29/22 14:31	10/05/22 09:55
320-92806-3	GESPM090622-263	Air	09/29/22 14:44	10/05/22 09:55
320-92806-4	GESTSP090622-263	Air	09/29/22 14:44	10/05/22 09:55
320-92806-5	GESPM090622-264	Air	10/04/22 06:39	10/05/22 09:55
320-92806-6	GESTSP090622-264	Air	10/04/22 06:39	10/05/22 09:55
320-92806-7	GESPM090622-265	Air	10/04/22 06:28	10/05/22 09:55
320-92806-8	GESTSP090622-265	Air	10/04/22 06:28	10/05/22 09:55

- 1
- 2
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- 11
- 12
- 13
- 14


**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT100422AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:  320-92806 Chain of Custody	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mh Cu	Code Matrix A Air
		Code Container/Preservative 1 1x Envelope, None
Equipment:		

Event: Parcel E Phase 2 Air Monitoring															
Sample ID	Matrix	Date	Time	Samp Init.	1	1	1				Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GESPM090622-262	A	09/29/2022	1431	[Redacted]	X	X				AMSE1	N2	0.00 0.00	1	VOLUME: 531.78 (M3)
2	GESTSP090622-262	A	09/29/2022	1431	[Redacted]		X				AMSE1	N2	0.00 0.00	1	VOLUME: 512.88 (M3)
3	GESPM090622-263	A	09/29/2022	1444	[Redacted]	X	X				AMSE2	N2	0.00 0.00	1	VOLUME: 577.09 (M3)
4	GESTSP090622-263	A	09/29/2022	1444	[Redacted]		X				AMSE2	N2	0.00 0.00	1	VOLUME: 578.02 (M3)
5	GESPM090622-264	A	10/04/2022	0639	[Redacted]	X	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1717.10 (M3)
6	GESTSP090622-264	A	10/04/2022	0639	[Redacted]		X				AMSE1	N1	0.00 0.00	1	VOLUME: 1623.96 (M3)
7	GESPM090622-265	A	10/04/2022	0628	[Redacted]	X	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1762.27 (M3)
8	GESTSP090622-265	A	10/04/2022	0628	[Redacted]		X				AMSE2	N1	0.00 0.00	1	VOLUME: 1751.00 (M3)
9					[Redacted]										
10					[Redacted]										

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	10/4/22	1600	FEDEX	10/04/22	1400	Shipping Date: 10/4/2022 / FedEx 7700 9607 9315
			[Redacted]	10-5-22	0955	
						Received by Laboratory: (Signature, Date, Time) & condition

19.2'

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10/19/2022



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-92806-1

Login Number: 92806

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-92949-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS, LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]
[REDACTED]

Authorized for release by:
10/20/2022 3:59:43 PM

[REDACTED] Project Manager I
[REDACTED]
[REDACTED]

Designee for
[REDACTED], Project Manager I
[REDACTED]
[REDACTED]

LINKS

Review your project
results through



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Job ID: 320-92949-1

Laboratory: Eurofins Sacramento

Narrative

**Job Narrative
320-92949-1**

Receipt

The samples were received on 10/7/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.8° C.

Metals

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

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Detection Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Client Sample ID: GESPM090622-266

Lab Sample ID: 320-92949-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0072		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-266

Lab Sample ID: 320-92949-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.0424		0.3042	0.3042	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-267

Lab Sample ID: 320-92949-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.013		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0041		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-267

Lab Sample ID: 320-92949-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.3700		0.2837	0.2837	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-268

Lab Sample ID: 320-92949-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00077		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.015		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0015		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	3.0		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-268

Lab Sample ID: 320-92949-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	35.1796		0.3017	0.3017	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-269

Lab Sample ID: 320-92949-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00089		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.011		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0033		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	10		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-269

Lab Sample ID: 320-92949-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.8175		0.2826	0.2826	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Client Sample ID: GESPM090622-266

Lab Sample ID: 320-92949-1

Date Collected: 10/05/22 06:36

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00070	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:18	1
Copper	0.024		0.0014	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:18	1
Manganese	0.0072		0.00070	0.000098	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	33		0.29	0.29	ug/m3			10/11/22 13:00	1

Client Sample ID: GESTSP090622-266

Lab Sample ID: 320-92949-2

Date Collected: 10/05/22 06:36

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	42.0424		0.3042	0.3042	ug/m3 (Air)			10/11/22 13:00	1

Client Sample ID: GESPM090622-267

Lab Sample ID: 320-92949-3

Date Collected: 10/05/22 06:27

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00068	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:28	1
Copper	0.013		0.0014	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:28	1
Manganese	0.0041		0.00068	0.000096	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	25		0.28	0.28	ug/m3			10/11/22 13:00	1

Client Sample ID: GESTSP090622-267

Lab Sample ID: 320-92949-4

Date Collected: 10/05/22 06:27

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	36.3700		0.2837	0.2837	ug/m3 (Air)			10/11/22 13:00	1

Eurofins Sacramento

Client Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Client Sample ID: GESPM090622-268

Lab Sample ID: 320-92949-5

Date Collected: 10/06/22 06:46

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00077		0.00070	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:31	1
Copper	0.015		0.0014	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:31	1
Manganese	0.0015		0.00070	0.000097	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	3.0		0.29	0.29	ug/m3			10/11/22 13:00	1

Client Sample ID: GESTSP090622-268

Lab Sample ID: 320-92949-6

Date Collected: 10/06/22 06:46

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	35.1796		0.3017	0.3017	ug/m3 (Air)			10/11/22 13:00	1

Client Sample ID: GESPM090622-269

Lab Sample ID: 320-92949-7

Date Collected: 10/06/22 06:33

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00089		0.00069	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:35	1
Copper	0.011		0.0014	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:35	1
Manganese	0.0033		0.00069	0.000096	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	10		0.29	0.29	ug/m3			10/11/22 13:00	1

Client Sample ID: GESTSP090622-269

Lab Sample ID: 320-92949-8

Date Collected: 10/06/22 06:33

Matrix: Air

Date Received: 10/07/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	21.8175		0.2826	0.2826	ug/m3 (Air)			10/11/22 13:00	1

QC Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-624431/1-B
Matrix: Air
Analysis Batch: 624648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:09	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:09	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:09	1

Lab Sample ID: LCS 320-624431/2-B
Matrix: Air
Analysis Batch: 624648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.242		ug/m3 (Air)		101	86 - 111
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.248		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCSD 320-624431/3-B
Matrix: Air
Analysis Batch: 624648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624438

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.240		ug/m3 (Air)		100	86 - 111	1	15
Copper	0.240	0.236		ug/m3 (Air)		98	85 - 110	3	15
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110	4	15

QC Association Summary

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Metals

Pre Prep Batch: 624431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	Filter to Air	
320-92949-3	GESPM090622-267	Total/NA	Air	Filter to Air	
320-92949-5	GESPM090622-268	Total/NA	Air	Filter to Air	
320-92949-7	GESPM090622-269	Total/NA	Air	Filter to Air	
MB 320-624431/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-624431/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-624431/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 624438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	3050B	624431
320-92949-3	GESPM090622-267	Total/NA	Air	3050B	624431
320-92949-5	GESPM090622-268	Total/NA	Air	3050B	624431
320-92949-7	GESPM090622-269	Total/NA	Air	3050B	624431
MB 320-624431/1-B	Method Blank	Total/NA	Air	3050B	624431
LCS 320-624431/2-B	Lab Control Sample	Total/NA	Air	3050B	624431
LCSD 320-624431/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	624431

Analysis Batch: 624648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	6020	624438
320-92949-3	GESPM090622-267	Total/NA	Air	6020	624438
320-92949-5	GESPM090622-268	Total/NA	Air	6020	624438
320-92949-7	GESPM090622-269	Total/NA	Air	6020	624438
MB 320-624431/1-B	Method Blank	Total/NA	Air	6020	624438
LCS 320-624431/2-B	Lab Control Sample	Total/NA	Air	6020	624438
LCSD 320-624431/3-B	Lab Control Sample Dup	Total/NA	Air	6020	624438

General Chemistry

Pre Prep Batch: 623310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-2	GESTSP090622-266	Total/NA	Air	Filter to Air	
320-92949-4	GESTSP090622-267	Total/NA	Air	Filter to Air	
320-92949-6	GESTSP090622-268	Total/NA	Air	Filter to Air	
320-92949-8	GESTSP090622-269	Total/NA	Air	Filter to Air	

Analysis Batch: 625922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	PM10	
320-92949-3	GESPM090622-267	Total/NA	Air	PM10	
320-92949-5	GESPM090622-268	Total/NA	Air	PM10	
320-92949-7	GESPM090622-269	Total/NA	Air	PM10	

Analysis Batch: 625923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-2	GESTSP090622-266	Total/NA	Air	40CFR50 App B	623310
320-92949-4	GESTSP090622-267	Total/NA	Air	40CFR50 App B	623310
320-92949-6	GESTSP090622-268	Total/NA	Air	40CFR50 App B	623310
320-92949-8	GESTSP090622-269	Total/NA	Air	40CFR50 App B	623310

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Client Sample ID: GESPM090622-266

Lab Sample ID: 320-92949-1

Date Collected: 10/05/22 06:36

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					624431	10/13/22 07:09		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45		EET SAC
Total/NA	Analysis	6020		1			624648	10/13/22 17:18		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0566 g	625922	10/11/22 13:00		EET SAC

Client Sample ID: GESTSP090622-266

Lab Sample ID: 320-92949-2

Date Collected: 10/05/22 06:36

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00		EET SAC

Client Sample ID: GESPM090622-267

Lab Sample ID: 320-92949-3

Date Collected: 10/05/22 06:27

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					624431	10/13/22 07:09		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45		EET SAC
Total/NA	Analysis	6020		1			624648	10/13/22 17:28		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0443 g	625922	10/11/22 13:00		EET SAC

Client Sample ID: GESTSP090622-267

Lab Sample ID: 320-92949-4

Date Collected: 10/05/22 06:27

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00		EET SAC

Client Sample ID: GESPM090622-268

Lab Sample ID: 320-92949-5

Date Collected: 10/06/22 06:46

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					624431	10/13/22 07:09		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45		EET SAC
Total/NA	Analysis	6020		1			624648	10/13/22 17:31		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0052 g	625922	10/11/22 13:00		EET SAC

Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Client Sample ID: GESTSP090622-268

Lab Sample ID: 320-92949-6

Date Collected: 10/06/22 06:46

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29	█	EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00	█	EET SAC

Client Sample ID: GESPM090622-269

Lab Sample ID: 320-92949-7

Date Collected: 10/06/22 06:33

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					624431	10/13/22 07:09	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45	█	EET SAC
Total/NA	Analysis	6020		1			624648	10/13/22 17:35	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0180 g	625922	10/11/22 13:00	█	EET SAC

Client Sample ID: GESTSP090622-269

Lab Sample ID: 320-92949-8

Date Collected: 10/06/22 06:33

Matrix: Air

Date Received: 10/07/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29	█	EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-92949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92949-1	GESPM090622-266	Air	10/05/22 06:36	10/07/22 09:40
320-92949-2	GESTSP090622-266	Air	10/05/22 06:36	10/07/22 09:40
320-92949-3	GESPM090622-267	Air	10/05/22 06:27	10/07/22 09:40
320-92949-4	GESTSP090622-267	Air	10/05/22 06:27	10/07/22 09:40
320-92949-5	GESPM090622-268	Air	10/06/22 06:46	10/07/22 09:40
320-92949-6	GESTSP090622-268	Air	10/06/22 06:46	10/07/22 09:40
320-92949-7	GESPM090622-269	Air	10/06/22 06:33	10/07/22 09:40
320-92949-8	GESTSP090622-269	Air	10/06/22 06:33	10/07/22 09:40

- 1
- 2
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- 10
- 11
- 12
- 13
- 14


**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT100622AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix
		A Air
Equipment:		Code Container/Preservative
		1 1x Envelope, None
		 320-92949 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring																			
Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
					1	1	1												Top
1	GESPM090622-266	A	10/05/2022	0636	[Redacted]	X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1714.47 (M3)
2	GESTSP090622-266	A	10/05/2022	0636	[Redacted]		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1643.58 (M3)
3	GESPM090622-267	A	10/05/2022	0627	[Redacted]	X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1755.40 (M3)
4	GESTSP090622-267	A	10/05/2022	0627	[Redacted]		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1762.44 (M3)
5	GESPM090622-268	A	10/06/2022	0646	[Redacted]	X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1726.52 (M3)
6	GESTSP090622-268	A	10/06/2022	0646	[Redacted]		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1657.21 (M3)
7	GESPM090622-269	A	10/06/2022	0633	[Redacted]	X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1748.73 (M3)
8	GESTSP090622-269	A	10/06/2022	0633	[Redacted]		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1769.22 (M3)
9					[Redacted]														
10					[Redacted]														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	10/6/22	1600	Fedex	10/6/22	1600	Shipping Date: 10/6/2022 FedEx: 7701 2148 3195
			[Redacted]	10-7-22	0940	
						Received by Laboratory: (Signature, Date, Time) & condition



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-92949-1

Login Number: 92949

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-93124-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS, LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

Authorized for release by:
10/26/2022 10:10:58 AM

[REDACTED], Project Manager I
[REDACTED]
[REDACTED]

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Job ID: 320-93124-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-93124-1

Comments

No additional comments.

Receipt

The samples were received on 10/12/2022 9:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.8° C.

Metals

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

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Detection Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Client Sample ID: GESPM090622-270

Lab Sample ID: 320-93124-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0050	B	0.0024	0.00036	ug/m3 (Air)	1		6020	Total/NA
Copper	0.070		0.0048	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.0024	0.00034	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-270

Lab Sample ID: 320-93124-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	48.5529		1.0509	1.0509	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-271

Lab Sample ID: 320-93124-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037	B	0.0023	0.00035	ug/m3 (Air)	1		6020	Total/NA
Copper	0.095		0.0047	0.00035	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0072		0.0023	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.98	0.98	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-271

Lab Sample ID: 320-93124-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.1049		0.9771	0.9771	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-272

Lab Sample ID: 320-93124-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025	B	0.00073	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.049		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052		0.00073	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-272

Lab Sample ID: 320-93124-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	23.6509		0.3170	0.3170	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-273

Lab Sample ID: 320-93124-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0046	B	0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.019		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0061		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.9		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-273

Lab Sample ID: 320-93124-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.3793		0.2882	0.2882	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Client Sample ID: GESPM090622-270

Lab Sample ID: 320-93124-1

Date Collected: 10/06/22 13:46

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0050	B	0.0024	0.00036	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:19	1
Copper	0.070		0.0048	0.00036	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:19	1
Manganese	0.012		0.0024	0.00034	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	19		1.0	1.0	ug/m3			10/13/22 07:30	1

Client Sample ID: GESTSP090622-270

Lab Sample ID: 320-93124-2

Date Collected: 10/06/22 13:46

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	48.5529		1.0509	1.0509	ug/m3 (Air)			10/13/22 07:30	1

Client Sample ID: GESPM091422-271

Lab Sample ID: 320-93124-3

Date Collected: 10/06/22 13:33

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037	B	0.0023	0.00035	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:29	1
Copper	0.095		0.0047	0.00035	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:29	1
Manganese	0.0072		0.0023	0.00033	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	11		0.98	0.98	ug/m3			10/13/22 07:30	1

Client Sample ID: GESTSP091422-271

Lab Sample ID: 320-93124-4

Date Collected: 10/06/22 13:33

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	21.1049		0.9771	0.9771	ug/m3 (Air)			10/13/22 07:30	1

Eurofins Sacramento

Client Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Client Sample ID: GESPM091422-272

Lab Sample ID: 320-93124-5

Date Collected: 10/11/22 06:50

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025	B	0.00073	0.00011	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:33	1
Copper	0.049		0.0015	0.00011	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:33	1
Manganese	0.0052		0.00073	0.00010	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:33	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	13		0.30	0.30	ug/m3			10/13/22 07:30	1

Client Sample ID: GESTSP091422-272

Lab Sample ID: 320-93124-6

Date Collected: 10/11/22 06:50

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	23.6509		0.3170	0.3170	ug/m3 (Air)			10/13/22 07:30	1

Client Sample ID: GESPM091422-273

Lab Sample ID: 320-93124-7

Date Collected: 10/11/22 06:40

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0046	B	0.00069	0.00010	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:36	1
Copper	0.019		0.0014	0.00010	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:36	1
Manganese	0.0061		0.00069	0.000096	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	9.9		0.29	0.29	ug/m3			10/13/22 07:30	1

Client Sample ID: GESTSP091422-273

Lab Sample ID: 320-93124-8

Date Collected: 10/11/22 06:40

Matrix: Air

Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	27.3793		0.2882	0.2882	ug/m3 (Air)			10/13/22 07:30	1

QC Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-625156/1-B
Matrix: Air
Analysis Batch: 625571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.000294	J	0.0012	0.00018	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:10	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:10	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:10	1

Lab Sample ID: LCS 320-625156/2-B
Matrix: Air
Analysis Batch: 625571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.251		ug/m3 (Air)		104	86 - 111
Copper	0.240	0.233		ug/m3 (Air)		97	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-625156/3-B
Matrix: Air
Analysis Batch: 625571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 625158

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.245		ug/m3 (Air)		102	86 - 111	2	15
Copper	0.240	0.249		ug/m3 (Air)		104	85 - 110	7	15
Manganese	0.240	0.258		ug/m3 (Air)		107	88 - 110	6	15

QC Association Summary

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Metals

Pre Prep Batch: 625156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-1	GESPM090622-270	Total/NA	Air	Filter to Air	
320-93124-3	GESPM091422-271	Total/NA	Air	Filter to Air	
320-93124-5	GESPM091422-272	Total/NA	Air	Filter to Air	
320-93124-7	GESPM091422-273	Total/NA	Air	Filter to Air	
MB 320-625156/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-625156/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-625156/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 625158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-1	GESPM090622-270	Total/NA	Air	3050B	625156
320-93124-3	GESPM091422-271	Total/NA	Air	3050B	625156
320-93124-5	GESPM091422-272	Total/NA	Air	3050B	625156
320-93124-7	GESPM091422-273	Total/NA	Air	3050B	625156
MB 320-625156/1-B	Method Blank	Total/NA	Air	3050B	625156
LCS 320-625156/2-B	Lab Control Sample	Total/NA	Air	3050B	625156
LCSD 320-625156/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	625156

Analysis Batch: 625571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-1	GESPM090622-270	Total/NA	Air	6020	625158
320-93124-3	GESPM091422-271	Total/NA	Air	6020	625158
320-93124-5	GESPM091422-272	Total/NA	Air	6020	625158
320-93124-7	GESPM091422-273	Total/NA	Air	6020	625158
MB 320-625156/1-B	Method Blank	Total/NA	Air	6020	625158
LCS 320-625156/2-B	Lab Control Sample	Total/NA	Air	6020	625158
LCSD 320-625156/3-B	Lab Control Sample Dup	Total/NA	Air	6020	625158

General Chemistry

Pre Prep Batch: 625527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-2	GESTSP090622-270	Total/NA	Air	Filter to Air	
320-93124-4	GESTSP091422-271	Total/NA	Air	Filter to Air	
320-93124-6	GESTSP091422-272	Total/NA	Air	Filter to Air	
320-93124-8	GESTSP091422-273	Total/NA	Air	Filter to Air	

Analysis Batch: 625931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-1	GESPM090622-270	Total/NA	Air	PM10	
320-93124-3	GESPM091422-271	Total/NA	Air	PM10	
320-93124-5	GESPM091422-272	Total/NA	Air	PM10	
320-93124-7	GESPM091422-273	Total/NA	Air	PM10	

Analysis Batch: 625950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-2	GESTSP090622-270	Total/NA	Air	40CFR50 App B	625527
320-93124-4	GESTSP091422-271	Total/NA	Air	40CFR50 App B	625527
320-93124-6	GESTSP091422-272	Total/NA	Air	40CFR50 App B	625527
320-93124-8	GESTSP091422-273	Total/NA	Air	40CFR50 App B	625527

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Client Sample ID: GESPM090622-270

Lab Sample ID: 320-93124-1

Date Collected: 10/06/22 13:46

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625156	10/17/22 07:37		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625158	10/17/22 07:50		EET SAC
Total/NA	Analysis	6020		1			625571	10/17/22 18:19		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0092 g	625931	10/13/22 07:30		EET SAC

Client Sample ID: GESTSP090622-270

Lab Sample ID: 320-93124-2

Date Collected: 10/06/22 13:46

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625950	10/13/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					625527	10/17/22 16:15		EET SAC

Client Sample ID: GESPM091422-271

Lab Sample ID: 320-93124-3

Date Collected: 10/06/22 13:33

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625156	10/17/22 07:37		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625158	10/17/22 07:50		EET SAC
Total/NA	Analysis	6020		1			625571	10/17/22 18:29		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0058 g	625931	10/13/22 07:30		EET SAC

Client Sample ID: GESTSP091422-271

Lab Sample ID: 320-93124-4

Date Collected: 10/06/22 13:33

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625950	10/13/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					625527	10/17/22 16:15		EET SAC

Client Sample ID: GESPM091422-272

Lab Sample ID: 320-93124-5

Date Collected: 10/11/22 06:50

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625156	10/17/22 07:37		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625158	10/17/22 07:50		EET SAC
Total/NA	Analysis	6020		1			625571	10/17/22 18:33		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0211 g	625931	10/13/22 07:30		EET SAC

Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Client Sample ID: GESTSP091422-272

Lab Sample ID: 320-93124-6

Date Collected: 10/11/22 06:50

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625950	10/13/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					625527	10/17/22 16:15	█	EET SAC

Client Sample ID: GESPM091422-273

Lab Sample ID: 320-93124-7

Date Collected: 10/11/22 06:40

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625156	10/17/22 07:37	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625158	10/17/22 07:50	█	EET SAC
Total/NA	Analysis	6020		1			625571	10/17/22 18:36	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0173 g	625931	10/13/22 07:30	█	EET SAC

Client Sample ID: GESTSP091422-273

Lab Sample ID: 320-93124-8

Date Collected: 10/11/22 06:40

Matrix: Air

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625950	10/13/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					625527	10/17/22 16:15	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



Method Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93124-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93124-1	GESPM090622-270	Air	10/06/22 13:46	10/12/22 09:25
320-93124-2	GESTSP090622-270	Air	10/06/22 13:46	10/12/22 09:25
320-93124-3	GESPM091422-271	Air	10/06/22 13:33	10/12/22 09:25
320-93124-4	GESTSP091422-271	Air	10/06/22 13:33	10/12/22 09:25
320-93124-5	GESPM091422-272	Air	10/11/22 06:50	10/12/22 09:25
320-93124-6	GESTSP091422-272	Air	10/11/22 06:50	10/12/22 09:25
320-93124-7	GESPM091422-273	Air	10/11/22 06:40	10/12/22 09:25
320-93124-8	GESTSP091422-273	Air	10/11/22 06:40	10/12/22 09:25

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
 2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT101122AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
		A Air	
Equipment:		Code Container/Preservative	
		1 1x Envelope, None	



Event: Parcel E Phase 2 Air Monitoring														
Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method				Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
					CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu				Top	Bottom		
1	GESPM090622-270	A	10/06/2022	1346	X	X			AMSE1	N2	0.00	0.00	1	VOLUME: 495.50 (M3)
2	GESTSP090622-270	A	10/06/2022	1346		X			AMSE1	N2	0.00	0.00	1	VOLUME: 475.77 (M3)
3	GESPM091422-271	A	10/06/2022	1333	X	X			AMSE2	N2	0.00	0.00	1	VOLUME: 511.12 (M3)
4	GESTSP091422-271	A	10/06/2022	1333		X			AMSE2	N2	0.00	0.00	1	VOLUME: 511.73 (M3)
5	GESPM091422-272	A	10/11/2022	0650	X	X			AMSE1	N1	0.00	0.00	1	VOLUME: 1654.56 (M3)
6	GESTSP091422-272	A	10/11/2022	0650		X			AMSE1	N1	0.00	0.00	1	VOLUME: 1577.11 (M3)
7	GESPM091422-273	A	10/11/2022	0640	X	X			AMSE2	N1	0.00	0.00	1	VOLUME: 1746.72 (M3)
8	GESTSP091422-273	A	10/11/2022	0640		X			AMSE2	N1	0.00	0.00	1	VOLUME: 1734.89 (M3)
9														
10														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	10-11-22	1600	FEDEX	10-11-22	1600	Shipping Date: 10/11/2022 / FedEx 7701 7251 3836
			[Redacted]	10-12-22	0925	
						Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy_COC_Field
October 11, 2022

19.5-

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10/26/2022



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-93124-1

Login Number: 93124

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-93245-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS, LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
10/26/2022 10:14:02 AM

[REDACTED], Project Manager I

[REDACTED]

[REDACTED]

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Job ID: 320-93245-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-93245-1

Comments

No additional comments.

Receipt

The samples were received on 10/14/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.8° C.

Metals

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

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Detection Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Client Sample ID: GESPM091422-274

Lab Sample ID: 320-93245-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.014		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.043		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-274

Lab Sample ID: 320-93245-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	64.5492		0.3051	0.3051	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-275

Lab Sample ID: 320-93245-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.023		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0046		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-275

Lab Sample ID: 320-93245-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.7593		0.2830	0.2830	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-276

Lab Sample ID: 320-93245-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.098		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0081		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-276

Lab Sample ID: 320-93245-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.3970		0.3078	0.3078	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-277

Lab Sample ID: 320-93245-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.019		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0047		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-277

Lab Sample ID: 320-93245-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.9771		0.2872	0.2872	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Client Sample ID: GESPM091422-274

Lab Sample ID: 320-93245-1

Date Collected: 10/12/22 06:49

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.014		0.00070	0.00011	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:29	1
Copper	0.13		0.0014	0.00011	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:29	1
Manganese	0.043		0.00070	0.000098	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	37		0.29	0.29	ug/m3			10/17/22 08:00	1

Client Sample ID: GESTSP091422-274

Lab Sample ID: 320-93245-2

Date Collected: 10/12/22 06:49

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	64.5492		0.3051	0.3051	ug/m3 (Air)			10/19/22 11:57	1

Client Sample ID: GESPM091422-275

Lab Sample ID: 320-93245-3

Date Collected: 10/12/22 06:45

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025		0.00068	0.00010	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:39	1
Copper	0.023		0.0014	0.00010	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:39	1
Manganese	0.0046		0.00068	0.000095	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	14		0.28	0.28	ug/m3			10/17/22 08:00	1

Client Sample ID: GESTSP091422-275

Lab Sample ID: 320-93245-4

Date Collected: 10/12/22 06:45

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	43.7593		0.2830	0.2830	ug/m3 (Air)			10/19/22 11:57	1

Client Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Client Sample ID: GESPM091422-276

Lab Sample ID: 320-93245-5

Date Collected: 10/13/22 06:37

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.00070	0.00011	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:42	1
Copper	0.098		0.0014	0.00011	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:42	1
Manganese	0.0081		0.00070	0.000098	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	20		0.29	0.29	ug/m3			10/17/22 08:00	1

Client Sample ID: GESTSP091422-276

Lab Sample ID: 320-93245-6

Date Collected: 10/13/22 06:37

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	39.3970		0.3078	0.3078	ug/m3 (Air)			10/19/22 11:57	1

Client Sample ID: GESPM091422-277

Lab Sample ID: 320-93245-7

Date Collected: 10/13/22 06:26

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:45	1
Copper	0.019		0.0014	0.00010	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:45	1
Manganese	0.0047		0.00069	0.000097	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	11		0.29	0.29	ug/m3			10/17/22 08:00	1

Client Sample ID: GESTSP091422-277

Lab Sample ID: 320-93245-8

Date Collected: 10/13/22 06:26

Matrix: Air

Date Received: 10/14/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	34.9771		0.2872	0.2872	ug/m3 (Air)			10/19/22 11:57	1

QC Sample Results

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-625856/1-B
Matrix: Air
Analysis Batch: 626373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/19/22 06:30	10/20/22 10:43	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/19/22 06:30	10/20/22 10:43	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/19/22 06:30	10/20/22 10:43	1

Lab Sample ID: LCS 320-625856/2-B
Matrix: Air
Analysis Batch: 626373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.262		ug/m3 (Air)		109	86 - 111
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110

Lab Sample ID: LCSD 320-625856/3-B
Matrix: Air
Analysis Batch: 626373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 625871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.254		ug/m3 (Air)		106	86 - 111	3	15
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110	3	15
Manganese	0.240	0.254		ug/m3 (Air)		106	88 - 110	4	15

QC Association Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Metals

Pre Prep Batch: 625856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-1	GESPM091422-274	Total/NA	Air	Filter to Air	
320-93245-3	GESPM091422-275	Total/NA	Air	Filter to Air	
320-93245-5	GESPM091422-276	Total/NA	Air	Filter to Air	
320-93245-7	GESPM091422-277	Total/NA	Air	Filter to Air	
MB 320-625856/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-625856/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-625856/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 625871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-1	GESPM091422-274	Total/NA	Air	3050B	625856
320-93245-3	GESPM091422-275	Total/NA	Air	3050B	625856
320-93245-5	GESPM091422-276	Total/NA	Air	3050B	625856
320-93245-7	GESPM091422-277	Total/NA	Air	3050B	625856
MB 320-625856/1-B	Method Blank	Total/NA	Air	3050B	625856
LCS 320-625856/2-B	Lab Control Sample	Total/NA	Air	3050B	625856
LCSD 320-625856/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	625856

Analysis Batch: 626129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-1	GESPM091422-274	Total/NA	Air	6020	625871
320-93245-3	GESPM091422-275	Total/NA	Air	6020	625871
320-93245-5	GESPM091422-276	Total/NA	Air	6020	625871
320-93245-7	GESPM091422-277	Total/NA	Air	6020	625871

Analysis Batch: 626373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-625856/1-B	Method Blank	Total/NA	Air	6020	625871
LCS 320-625856/2-B	Lab Control Sample	Total/NA	Air	6020	625871
LCSD 320-625856/3-B	Lab Control Sample Dup	Total/NA	Air	6020	625871

General Chemistry

Pre Prep Batch: 625595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-2	GESTSP091422-274	Total/NA	Air	Filter to Air	
320-93245-4	GESTSP091422-275	Total/NA	Air	Filter to Air	
320-93245-6	GESTSP091422-276	Total/NA	Air	Filter to Air	
320-93245-8	GESTSP091422-277	Total/NA	Air	Filter to Air	

Analysis Batch: 625982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-1	GESPM091422-274	Total/NA	Air	PM10	
320-93245-3	GESPM091422-275	Total/NA	Air	PM10	
320-93245-5	GESPM091422-276	Total/NA	Air	PM10	
320-93245-7	GESPM091422-277	Total/NA	Air	PM10	

Analysis Batch: 625985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-2	GESTSP091422-274	Total/NA	Air	40CFR50 App B	625595
320-93245-4	GESTSP091422-275	Total/NA	Air	40CFR50 App B	625595

Eurofins Sacramento

QC Association Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

General Chemistry (Continued)

Analysis Batch: 625985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-6	GESTSP091422-276	Total/NA	Air	40CFR50 App B	625595
320-93245-8	GESTSP091422-277	Total/NA	Air	40CFR50 App B	625595

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Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Client Sample ID: GESPM091422-274

Lab Sample ID: 320-93245-1

Date Collected: 10/12/22 06:49

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625856	10/19/22 05:07		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30		EET SAC
Total/NA	Analysis	6020		1			626129	10/19/22 18:29		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0638 g	625982	10/17/22 08:00		EET SAC

Client Sample ID: GESTSP091422-274

Lab Sample ID: 320-93245-2

Date Collected: 10/12/22 06:49

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625595	10/18/22 09:35		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57		EET SAC

Client Sample ID: GESPM091422-275

Lab Sample ID: 320-93245-3

Date Collected: 10/12/22 06:45

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625856	10/19/22 05:07		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30		EET SAC
Total/NA	Analysis	6020		1			626129	10/19/22 18:39		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0250 g	625982	10/17/22 08:00		EET SAC

Client Sample ID: GESTSP091422-275

Lab Sample ID: 320-93245-4

Date Collected: 10/12/22 06:45

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625595	10/18/22 09:35		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57		EET SAC

Client Sample ID: GESPM091422-276

Lab Sample ID: 320-93245-5

Date Collected: 10/13/22 06:37

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625856	10/19/22 05:07		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30		EET SAC
Total/NA	Analysis	6020		1			626129	10/19/22 18:42		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0340 g	625982	10/17/22 08:00		EET SAC

Lab Chronicle

Client: GES-AIS, LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Client Sample ID: GESTSP091422-276

Lab Sample ID: 320-93245-6

Date Collected: 10/13/22 06:37

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625595	10/18/22 09:35	█	EET SAC
Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57	█	EET SAC

Client Sample ID: GESPM091422-277

Lab Sample ID: 320-93245-7

Date Collected: 10/13/22 06:26

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625856	10/19/22 05:07	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30	█	EET SAC
Total/NA	Analysis	6020		1			626129	10/19/22 18:45	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0196 g	625982	10/17/22 08:00	█	EET SAC

Client Sample ID: GESTSP091422-277

Lab Sample ID: 320-93245-8

Date Collected: 10/13/22 06:26

Matrix: Air

Date Received: 10/14/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625595	10/18/22 09:35	█	EET SAC
Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10

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Method Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS, LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93245-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93245-1	GESPM091422-274	Air	10/12/22 06:49	10/14/22 09:40
320-93245-2	GESTSP091422-274	Air	10/12/22 06:49	10/14/22 09:40
320-93245-3	GESPM091422-275	Air	10/12/22 06:45	10/14/22 09:40
320-93245-4	GESTSP091422-275	Air	10/12/22 06:45	10/14/22 09:40
320-93245-5	GESPM091422-276	Air	10/13/22 06:37	10/14/22 09:40
320-93245-6	GESTSP091422-276	Air	10/13/22 06:37	10/14/22 09:40
320-93245-7	GESPM091422-277	Air	10/13/22 06:26	10/14/22 09:40
320-93245-8	GESTSP091422-277	Air	10/13/22 06:26	10/14/22 09:40

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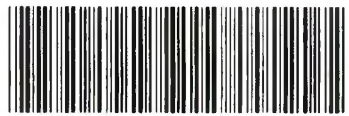
**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT101322AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:  320-93245 Chain of Custody	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix A Air	Code Container/Preservative 1 1x Envelope, None
		Equipment:	

Event: Parcel E Phase 2 Air Monitoring														
Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
											Top	Bottom		
1	GESPM091422-274	A	10/12/2022	0649	[Redacted]	X	X		AMSE1	N1	0.00	0.00	1	VOLUME: 1708.80 (M3)
2	GESTSP091422-274	A	10/12/2022	0649	[Redacted]		X		AMSE1	N1	0.00	0.00	1	VOLUME: 1639.06 (M3)
3	GESPM091422-275	A	10/12/2022	0645	[Redacted]	X	X		AMSE2	N1	0.00	0.00	1	VOLUME: 1762.89 (M3)
4	GESTSP091422-275	A	10/12/2022	0645	[Redacted]		X		AMSE2	N1	0.00	0.00	1	VOLUME: 1766.48 (M3)
5	GESPM091422-276	A	10/13/2022	0637	[Redacted]	X	X		AMSE1	N1	0.00	0.00	1	VOLUME: 1707.63 (M3)
6	GESTSP091422-276	A	10/13/2022	0637	[Redacted]		X		AMSE1	N1	0.00	0.00	1	VOLUME: 1624.49 (M3)
7	GESPM091422-277	A	10/13/2022	0626	[Redacted]	X	X		AMSE2	N1	0.00	0.00	1	VOLUME: 1737.47 (M3)
8	GESTSP091422-277	A	10/13/2022	0626	[Redacted]		X		AMSE2	N1	0.00	0.00	1	VOLUME: 1741.14 (M3)
9														
10														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	10/13/22	1600	FEDEX	10/13/22	1600	Shipping Date: 10/13/2022 / FedEx 7701 8989 6126
			[Redacted]	10-14-22	0940	Received by Laboratory: (Signature, Date, Time) & condition

19.8

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10/26/2022



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-93245-1

Login Number: 93245

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-93376-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
11/8/2022 3:47:18 PM

[REDACTED], Project Manager I

[REDACTED]

[REDACTED]

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Job ID: 320-93376-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-93376-1

Comments

No additional comments.

Receipt

The samples were received on 10/19/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.2° C.

Metals

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

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Detection Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Client Sample ID: GESPM091422-278

Lab Sample ID: 320-93376-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0048		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0092		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13		0.92	0.92	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-278

Lab Sample ID: 320-93376-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	10.3413		0.9233	0.9233	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-279

Lab Sample ID: 320-93376-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0042		0.0022	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.033		0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0060		0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.0		0.90	0.90	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-279

Lab Sample ID: 320-93376-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.5783		0.8994	0.8994	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-280

Lab Sample ID: 320-93376-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0041		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.095		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-280

Lab Sample ID: 320-93376-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	35.6837		0.2949	0.2949	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-281

Lab Sample ID: 320-93376-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.036		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0061		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-281

Lab Sample ID: 320-93376-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.3518		0.2833	0.2833	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Client Sample ID: GESPM091422-278

Lab Sample ID: 320-93376-1

Date Collected: 10/13/22 14:15

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0048		0.0022	0.00033	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:45	1
Copper	0.12		0.0044	0.00033	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:45	1
Manganese	0.0092		0.0022	0.00031	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	13		0.92	0.92	ug/m3			10/20/22 12:30	1

Client Sample ID: GESTSP091422-278

Lab Sample ID: 320-93376-2

Date Collected: 10/13/22 14:15

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	10.3413		0.9233	0.9233	ug/m3 (Air)			10/20/22 12:30	1

Client Sample ID: GESPM091422-279

Lab Sample ID: 320-93376-3

Date Collected: 10/13/22 14:03

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0042		0.0022	0.00032	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:54	1
Copper	0.033		0.0043	0.00032	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:54	1
Manganese	0.0060		0.0022	0.00030	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	9.0		0.90	0.90	ug/m3			10/20/22 12:30	1

Client Sample ID: GESTSP091422-279

Lab Sample ID: 320-93376-4

Date Collected: 10/13/22 14:03

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	30.5783		0.8994	0.8994	ug/m3 (Air)			10/20/22 12:30	1

Client Sample Results

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Client Sample ID: GESPM091422-280

Lab Sample ID: 320-93376-5

Date Collected: 10/18/22 06:36

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0041		0.00071	0.00011	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:58	1
Copper	0.095		0.0014	0.00011	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:58	1
Manganese	0.011		0.00071	0.000099	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	27		0.29	0.29	ug/m3			10/20/22 12:30	1

Client Sample ID: GESTSP091422-280

Lab Sample ID: 320-93376-6

Date Collected: 10/18/22 06:36

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	35.6837		0.2949	0.2949	ug/m3 (Air)			10/20/22 12:30	1

Client Sample ID: GESPM091422-281

Lab Sample ID: 320-93376-7

Date Collected: 10/18/22 06:24

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025		0.00068	0.00010	ug/m3 (Air)		10/25/22 06:00	10/26/22 16:01	1
Copper	0.036		0.0014	0.00010	ug/m3 (Air)		10/25/22 06:00	10/26/22 16:01	1
Manganese	0.0061		0.00068	0.000095	ug/m3 (Air)		10/25/22 06:00	10/26/22 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	21		0.28	0.28	ug/m3			10/20/22 12:30	1

Client Sample ID: GESTSP091422-281

Lab Sample ID: 320-93376-8

Date Collected: 10/18/22 06:24

Matrix: Air

Date Received: 10/19/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	32.3518		0.2833	0.2833	ug/m3 (Air)			10/20/22 12:30	1

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QC Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-627278/1-B
Matrix: Air
Analysis Batch: 627762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:36	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:36	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:36	1

Lab Sample ID: LCS 320-627278/2-B
Matrix: Air
Analysis Batch: 627762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.265		ug/m3 (Air)		110	86 - 111
Copper	0.240	0.251		ug/m3 (Air)		104	85 - 110
Manganese	0.240	0.255		ug/m3 (Air)		106	88 - 110

Lab Sample ID: LCSD 320-627278/3-B
Matrix: Air
Analysis Batch: 627762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 627286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.240	0.245		ug/m3 (Air)		102	85 - 110	2	15
Manganese	0.240	0.251		ug/m3 (Air)		105	88 - 110	1	15

Lab Sample ID: LCSD 320-627278/3-B
Matrix: Air
Analysis Batch: 628032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 627286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.256		ug/m3 (Air)		107	86 - 111	4	15

QC Association Summary

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Metals

Pre Prep Batch: 627278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	Filter to Air	
320-93376-3	GESPM091422-279	Total/NA	Air	Filter to Air	
320-93376-5	GESPM091422-280	Total/NA	Air	Filter to Air	
320-93376-7	GESPM091422-281	Total/NA	Air	Filter to Air	
MB 320-627278/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-627278/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 627286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	3050B	627278
320-93376-3	GESPM091422-279	Total/NA	Air	3050B	627278
320-93376-5	GESPM091422-280	Total/NA	Air	3050B	627278
320-93376-7	GESPM091422-281	Total/NA	Air	3050B	627278
MB 320-627278/1-B	Method Blank	Total/NA	Air	3050B	627278
LCS 320-627278/2-B	Lab Control Sample	Total/NA	Air	3050B	627278
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	627278

Analysis Batch: 627762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	6020	627286
320-93376-3	GESPM091422-279	Total/NA	Air	6020	627286
320-93376-5	GESPM091422-280	Total/NA	Air	6020	627286
320-93376-7	GESPM091422-281	Total/NA	Air	6020	627286
MB 320-627278/1-B	Method Blank	Total/NA	Air	6020	627286
LCS 320-627278/2-B	Lab Control Sample	Total/NA	Air	6020	627286
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	6020	627286

Analysis Batch: 628032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	6020	627286

General Chemistry

Pre Prep Batch: 627254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-2	GESTSP091422-278	Total/NA	Air	Filter to Air	
320-93376-4	GESTSP091422-279	Total/NA	Air	Filter to Air	
320-93376-6	GESTSP091422-280	Total/NA	Air	Filter to Air	
320-93376-8	GESTSP091422-281	Total/NA	Air	Filter to Air	

Analysis Batch: 627258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-2	GESTSP091422-278	Total/NA	Air	40CFR50 App B	627254
320-93376-4	GESTSP091422-279	Total/NA	Air	40CFR50 App B	627254
320-93376-6	GESTSP091422-280	Total/NA	Air	40CFR50 App B	627254
320-93376-8	GESTSP091422-281	Total/NA	Air	40CFR50 App B	627254

Analysis Batch: 627753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	PM10	

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QC Association Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

General Chemistry (Continued)

Analysis Batch: 627753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-3	GESPM091422-279	Total/NA	Air	PM10	
320-93376-5	GESPM091422-280	Total/NA	Air	PM10	
320-93376-7	GESPM091422-281	Total/NA	Air	PM10	

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Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Client Sample ID: GESPM091422-278

Lab Sample ID: 320-93376-1

Date Collected: 10/13/22 14:15

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00	█	EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 15:45	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0069 g	627753	10/20/22 12:30	█	EET SAC

Client Sample ID: GESTSP091422-278

Lab Sample ID: 320-93376-2

Date Collected: 10/13/22 14:15

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12	█	EET SAC

Client Sample ID: GESPM091422-279

Lab Sample ID: 320-93376-3

Date Collected: 10/13/22 14:03

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00	█	EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 15:54	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0050 g	627753	10/20/22 12:30	█	EET SAC

Client Sample ID: GESTSP091422-279

Lab Sample ID: 320-93376-4

Date Collected: 10/13/22 14:03

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12	█	EET SAC

Client Sample ID: GESPM091422-280

Lab Sample ID: 320-93376-5

Date Collected: 10/18/22 06:36

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00	█	EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 15:58	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0464 g	627753	10/20/22 12:30	█	EET SAC

Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Client Sample ID: GESTSP091422-280

Lab Sample ID: 320-93376-6

Date Collected: 10/18/22 06:36

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12	█	EET SAC

Client Sample ID: GESPM091422-281

Lab Sample ID: 320-93376-7

Date Collected: 10/18/22 06:24

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00	█	EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 16:01	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0365 g	627753	10/20/22 12:30	█	EET SAC

Client Sample ID: GESTSP091422-281

Lab Sample ID: 320-93376-8

Date Collected: 10/18/22 06:24

Matrix: Air

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93376-1	GESPM091422-278	Air	10/13/22 14:15	10/19/22 09:00
320-93376-2	GESTSP091422-278	Air	10/13/22 14:15	10/19/22 09:00
320-93376-3	GESPM091422-279	Air	10/13/22 14:03	10/19/22 09:00
320-93376-4	GESTSP091422-279	Air	10/13/22 14:03	10/19/22 09:00
320-93376-5	GESPM091422-280	Air	10/18/22 06:36	10/19/22 09:00
320-93376-6	GESTSP091422-280	Air	10/18/22 06:36	10/19/22 09:00
320-93376-7	GESPM091422-281	Air	10/18/22 06:24	10/19/22 09:00
320-93376-8	GESTSP091422-281	Air	10/18/22 06:24	10/19/22 09:00

- 1
- 2
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- 11
- 12
- 13
- 14

**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT101822AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
			A Air	
Equipment:			Code Container/Preservative	
			1 1x Envelope, None	



Event: Parcel E Phase 2 Air Monitoring																		
Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	GESPM091422-278	A	10/13/2022	1415	[Redacted]	X	X						AMSE1	N2	0.00	0.00	1	VOLUME: 541.52 (M3)
2	GESTSP091422-278	A	10/13/2022	1415	[Redacted]		X						AMSE1	N2	0.00	0.00	1	VOLUME: 518.15 (M3)
3	GESPM091422-279	A	10/13/2022	1403	[Redacted]	X	X						AMSE2	N2	0.00	0.00	1	VOLUME: 555.95 (M3)
4	GESTSP091422-279	A	10/13/2022	1403	[Redacted]		X						AMSE2	N2	0.00	0.00	1	VOLUME: 555.85 (M3)
5	GESPM091422-280	A	10/18/2022	0636	[Redacted]	X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1695.45 (M3)
6	GESTSP091422-280	A	10/18/2022	0636	[Redacted]		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1619.45 (M3)
7	GESPM091422-281	A	10/18/2022	0624	[Redacted]	X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1764.97 (M3)
8	GESTSP091422-281	A	10/18/2022	0624	[Redacted]		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1745.43 (M3)
9																		
10																		

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	10/18/2022	1600	FEDEX	10/18/2022	1600	Shipping Date: 10/18/2022 / FedEx 7702 2364 9000
			[Redacted]	10-19-22	0900	
						Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy_COC_Field
October 18, 2022

19700



Login Sample Receipt Checklist

Client: GES-AIS LLC

Job Number: 320-93376-1

Login Number: 93376

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-93485-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
10/28/2022 11:10:26 AM

[REDACTED], Project Manager I

[REDACTED]

[REDACTED]

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Job ID: 320-93485-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-93485-1

Comments

No additional comments.

Receipt

The samples were received on 10/21/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.7° C.

Metals

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

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Detection Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Client Sample ID: GESPM091422-282

Lab Sample ID: 320-93485-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0041	B	0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.21		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.017		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-282

Lab Sample ID: 320-93485-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.8171		0.3013	0.3013	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-283

Lab Sample ID: 320-93485-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027	B	0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.062		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-283

Lab Sample ID: 320-93485-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	44.2219		0.2810	0.2810	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-284

Lab Sample ID: 320-93485-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0046	B	0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.097		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.018		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-284

Lab Sample ID: 320-93485-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	44.7239		0.3055	0.3055	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-285

Lab Sample ID: 320-93485-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037	B	0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.019		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-285

Lab Sample ID: 320-93485-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.9418		0.2852	0.2852	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Client Sample ID: GESPM091422-282

Lab Sample ID: 320-93485-1

Date Collected: 10/19/22 06:47

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0041	B	0.00069	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:42	1
Copper	0.21		0.0014	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:42	1
Manganese	0.017		0.00069	0.000096	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	34		0.29	0.29	ug/m3			10/24/22 16:15	1

Client Sample ID: GESTSP091422-282

Lab Sample ID: 320-93485-2

Date Collected: 10/19/22 06:47

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	46.8171		0.3013	0.3013	ug/m3 (Air)			10/24/22 16:15	1

Client Sample ID: GESPM091422-283

Lab Sample ID: 320-93485-3

Date Collected: 10/19/22 06:37

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027	B	0.00067	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:45	1
Copper	0.062		0.0013	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:45	1
Manganese	0.013		0.00067	0.000094	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	27		0.28	0.28	ug/m3			10/24/22 16:15	1

Client Sample ID: GESTSP091422-283

Lab Sample ID: 320-93485-4

Date Collected: 10/19/22 06:37

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	44.2219		0.2810	0.2810	ug/m3 (Air)			10/24/22 16:15	1

Client Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Client Sample ID: GESPM091422-284

Lab Sample ID: 320-93485-5

Date Collected: 10/20/22 06:41

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0046	B	0.00070	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:48	1
Copper	0.097		0.0014	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:48	1
Manganese	0.018		0.00070	0.000098	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	31		0.29	0.29	ug/m3			10/24/22 16:15	1

Client Sample ID: GESTSP091422-284

Lab Sample ID: 320-93485-6

Date Collected: 10/20/22 06:41

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	44.7239		0.3055	0.3055	ug/m3 (Air)			10/24/22 16:15	1

Client Sample ID: GESPM091422-285

Lab Sample ID: 320-93485-7

Date Collected: 10/20/22 06:30

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037	B	0.00069	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:51	1
Copper	0.019		0.0014	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:51	1
Manganese	0.010		0.00069	0.000096	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	20		0.29	0.29	ug/m3			10/24/22 16:15	1

Client Sample ID: GESTSP091422-285

Lab Sample ID: 320-93485-8

Date Collected: 10/20/22 06:30

Matrix: Air

Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	29.9418		0.2852	0.2852	ug/m3 (Air)			10/24/22 16:15	1

QC Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-627785/1-B
Matrix: Air
Analysis Batch: 628221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.000206	J	0.0012	0.00018	ug/m3 (Air)		10/27/22 05:45	10/27/22 14:30	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/27/22 05:45	10/27/22 14:30	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/27/22 05:45	10/27/22 14:30	1

Lab Sample ID: LCS 320-627785/2-B
Matrix: Air
Analysis Batch: 628221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.252		ug/m3 (Air)		105	86 - 111
Copper	0.240	0.253		ug/m3 (Air)		105	85 - 110
Manganese	0.240	0.254		ug/m3 (Air)		106	88 - 110

Lab Sample ID: LCSD 320-627785/3-B
Matrix: Air
Analysis Batch: 628221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 627856

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.252		ug/m3 (Air)		105	86 - 111	0	15
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110	1	15
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110	1	15

QC Association Summary

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Metals

Pre Prep Batch: 627785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	Filter to Air	
320-93485-3	GESPM091422-283	Total/NA	Air	Filter to Air	
320-93485-5	GESPM091422-284	Total/NA	Air	Filter to Air	
320-93485-7	GESPM091422-285	Total/NA	Air	Filter to Air	
MB 320-627785/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-627785/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-627785/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 627856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	3050B	627785
320-93485-3	GESPM091422-283	Total/NA	Air	3050B	627785
320-93485-5	GESPM091422-284	Total/NA	Air	3050B	627785
320-93485-7	GESPM091422-285	Total/NA	Air	3050B	627785
MB 320-627785/1-B	Method Blank	Total/NA	Air	3050B	627785
LCS 320-627785/2-B	Lab Control Sample	Total/NA	Air	3050B	627785
LCSD 320-627785/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	627785

Analysis Batch: 628221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	6020	627856
320-93485-3	GESPM091422-283	Total/NA	Air	6020	627856
320-93485-5	GESPM091422-284	Total/NA	Air	6020	627856
320-93485-7	GESPM091422-285	Total/NA	Air	6020	627856
MB 320-627785/1-B	Method Blank	Total/NA	Air	6020	627856
LCS 320-627785/2-B	Lab Control Sample	Total/NA	Air	6020	627856
LCSD 320-627785/3-B	Lab Control Sample Dup	Total/NA	Air	6020	627856

General Chemistry

Pre Prep Batch: 628054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-2	GESTSP091422-282	Total/NA	Air	Filter to Air	
320-93485-4	GESTSP091422-283	Total/NA	Air	Filter to Air	
320-93485-6	GESTSP091422-284	Total/NA	Air	Filter to Air	
320-93485-8	GESTSP091422-285	Total/NA	Air	Filter to Air	

Analysis Batch: 628110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-2	GESTSP091422-282	Total/NA	Air	40CFR50 App B	628054
320-93485-4	GESTSP091422-283	Total/NA	Air	40CFR50 App B	628054
320-93485-6	GESTSP091422-284	Total/NA	Air	40CFR50 App B	628054
320-93485-8	GESTSP091422-285	Total/NA	Air	40CFR50 App B	628054

Analysis Batch: 628118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	PM10	
320-93485-3	GESPM091422-283	Total/NA	Air	PM10	
320-93485-5	GESPM091422-284	Total/NA	Air	PM10	
320-93485-7	GESPM091422-285	Total/NA	Air	PM10	

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Client Sample ID: GESPM091422-282

Lab Sample ID: 320-93485-1

Date Collected: 10/19/22 06:47

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627785	10/27/22 04:13		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627856	10/27/22 05:45		EET SAC
Total/NA	Analysis	6020		1			628221	10/27/22 15:42		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0588 g	628118	10/24/22 16:15		EET SAC

Client Sample ID: GESTSP091422-282

Lab Sample ID: 320-93485-2

Date Collected: 10/19/22 06:47

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			628110	10/24/22 16:15		EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06		EET SAC

Client Sample ID: GESPM091422-283

Lab Sample ID: 320-93485-3

Date Collected: 10/19/22 06:37

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627785	10/27/22 04:13		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627856	10/27/22 05:45		EET SAC
Total/NA	Analysis	6020		1			628221	10/27/22 15:45		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0486 g	628118	10/24/22 16:15		EET SAC

Client Sample ID: GESTSP091422-283

Lab Sample ID: 320-93485-4

Date Collected: 10/19/22 06:37

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			628110	10/24/22 16:15		EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06		EET SAC

Client Sample ID: GESPM091422-284

Lab Sample ID: 320-93485-5

Date Collected: 10/20/22 06:41

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627785	10/27/22 04:13		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627856	10/27/22 05:45		EET SAC
Total/NA	Analysis	6020		1			628221	10/27/22 15:48		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0529 g	628118	10/24/22 16:15		EET SAC

Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Client Sample ID: GESTSP091422-284

Lab Sample ID: 320-93485-6

Date Collected: 10/20/22 06:41

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			628110	10/24/22 16:15	█	EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06	█	EET SAC

Client Sample ID: GESPM091422-285

Lab Sample ID: 320-93485-7

Date Collected: 10/20/22 06:30

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627785	10/27/22 04:13	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627856	10/27/22 05:45	█	EET SAC
Total/NA	Analysis	6020		1			628221	10/27/22 15:51	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0343 g	628118	10/24/22 16:15	█	EET SAC

Client Sample ID: GESTSP091422-285

Lab Sample ID: 320-93485-8

Date Collected: 10/20/22 06:30

Matrix: Air

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			628110	10/24/22 16:15	█	EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93485-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93485-1	GESPM091422-282	Air	10/19/22 06:47	10/21/22 09:15
320-93485-2	GESTSP091422-282	Air	10/19/22 06:47	10/21/22 09:15
320-93485-3	GESPM091422-283	Air	10/19/22 06:37	10/21/22 09:15
320-93485-4	GESTSP091422-283	Air	10/19/22 06:37	10/21/22 09:15
320-93485-5	GESPM091422-284	Air	10/20/22 06:41	10/21/22 09:15
320-93485-6	GESTSP091422-284	Air	10/20/22 06:41	10/21/22 09:15
320-93485-7	GESPM091422-285	Air	10/20/22 06:30	10/21/22 09:15
320-93485-8	GESTSP091422-285	Air	10/20/22 06:30	10/21/22 09:15

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT102022AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
		A Air	
Equipment:		Code Container/Preservative	
		1 1x Envelope, None	



320-93485 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring															
Sample ID	Matrix	Date	Time	Samp Init.						Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	GESPM091422-282	A	10/19/2022	0647	[Redacted]	X	X			AMSE1	N1	0.00	0.00	1	VOLUME: 1745.47 (M3)
2	GESTSP091422-282	A	10/19/2022	0647	[Redacted]		X			AMSE1	N1	0.00	0.00	1	VOLUME: 1659.65 (M3)
3	GESPM091422-283	A	10/19/2022	0637	[Redacted]	X	X			AMSE2	N1	0.00	0.00	1	VOLUME: 1779.71 (M3)
4	GESTSP091422-283	A	10/19/2022	0637	[Redacted]		X			AMSE2	N1	0.00	0.00	1	VOLUME: 1779.66 (M3)
5	GESPM091422-284	A	10/20/2022	0641	[Redacted]	X	X			AMSE1	N1	0.00	0.00	1	VOLUME: 1720.57 (M3)
6	GESTSP091422-284	A	10/20/2022	0641	[Redacted]		X			AMSE1	N1	0.00	0.00	1	VOLUME: 1636.71 (M3)
7	GESPM091422-285	A	10/20/2022	0630	[Redacted]	X	X			AMSE2	N1	0.00	0.00	1	VOLUME: 1750.65 (M3)
8	GESTSP091422-285	A	10/20/2022	0630	[Redacted]		X			AMSE2	N1	0.00	0.00	1	VOLUME: 1753.40 (M3)
9															
10															

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	10-20-22	1600	FEDEX	10-20-22	1600	Shipping Date: 10/20/2022 / FedEx 7702 5178 9933
			[Redacted]	10-21-22	0915	
						Received by Laboratory: (Signature, Date, Time) & condition

19.7°C

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10/28/2022



Login Sample Receipt Checklist

Client: GES-AIS LLC

Job Number: 320-93485-1

Login Number: 93485

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-93641-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
11/8/2022 9:12:48 AM

[REDACTED], Project Manager I

[REDACTED]

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Job ID: 320-93641-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-93641-1

Comments

No additional comments.

Receipt

The samples were received on 10/26/2022 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.7° C.

Metals

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

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Detection Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Client Sample ID: GESPM091422-286

Lab Sample ID: 320-93641-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0061		0.0025	0.00037	ug/m3 (Air)	1		6020	Total/NA
Copper	0.090		0.0050	0.00037	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.016		0.0025	0.00035	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-286

Lab Sample ID: 320-93641-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	33.2305		1.0860	1.0860	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-287

Lab Sample ID: 320-93641-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0045		0.0024	0.00037	ug/m3 (Air)	1		6020	Total/NA
Copper	0.044		0.0049	0.00037	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0095		0.0024	0.00034	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-287

Lab Sample ID: 320-93641-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.2229		1.0185	1.0185	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-288

Lab Sample ID: 320-93641-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0073		0.00072	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.020		0.00072	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-288

Lab Sample ID: 320-93641-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	44.6883		0.3125	0.3125	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-361

Lab Sample ID: 320-93641-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.019		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0064		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-361

Lab Sample ID: 320-93641-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	17.6902		0.2862	0.2862	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Client Sample ID: GESPM091422-286

Lab Sample ID: 320-93641-1

Date Collected: 10/20/22 13:32

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0061		0.0025	0.00037	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:30	1
Copper	0.090		0.0050	0.00037	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:30	1
Manganese	0.016		0.0025	0.00035	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	25		1.0	1.0	ug/m3			10/26/22 16:00	1

Client Sample ID: GESTSP091422-286

Lab Sample ID: 320-93641-2

Date Collected: 10/20/22 13:32

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	33.2305		1.0860	1.0860	ug/m3 (Air)			10/26/22 16:00	1

Client Sample ID: GESPM091422-287

Lab Sample ID: 320-93641-3

Date Collected: 10/20/22 13:17

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0045		0.0024	0.00037	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:39	1
Copper	0.044		0.0049	0.00037	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:39	1
Manganese	0.0095		0.0024	0.00034	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	19		1.0	1.0	ug/m3			10/26/22 16:00	1

Client Sample ID: GESTSP091422-287

Lab Sample ID: 320-93641-4

Date Collected: 10/20/22 13:17

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	34.2229		1.0185	1.0185	ug/m3 (Air)			10/26/22 16:00	1

Client Sample Results

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Client Sample ID: GESPM091422-288

Lab Sample ID: 320-93641-5

Date Collected: 10/25/22 06:45

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0073		0.00072	0.00011	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:43	1
Copper	0.11		0.0014	0.00011	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:43	1
Manganese	0.020		0.00072	0.00010	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	29		0.30	0.30	ug/m3			10/26/22 16:00	1

Client Sample ID: GESTSP091422-288

Lab Sample ID: 320-93641-6

Date Collected: 10/25/22 06:45

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	44.6883		0.3125	0.3125	ug/m3 (Air)			10/26/22 16:00	1

Client Sample ID: GESPM100322-361

Lab Sample ID: 320-93641-7

Date Collected: 10/25/22 06:34

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021		0.00068	0.00010	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:46	1
Copper	0.019		0.0014	0.00010	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:46	1
Manganese	0.0064		0.00068	0.000096	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	13		0.28	0.28	ug/m3			10/26/22 16:00	1

Client Sample ID: GESTSP100322-361

Lab Sample ID: 320-93641-8

Date Collected: 10/25/22 06:34

Matrix: Air

Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	17.6902		0.2862	0.2862	ug/m3 (Air)			10/26/22 16:00	1

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QC Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-628968/1-B
Matrix: Air
Analysis Batch: 629478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:14	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:14	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:14	1

Lab Sample ID: LCS 320-628968/2-B
Matrix: Air
Analysis Batch: 629478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.240		ug/m3 (Air)		100	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-628968/3-B
Matrix: Air
Analysis Batch: 629478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628975

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.251		ug/m3 (Air)		105	86 - 111	5	15
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110	3	15
Manganese	0.240	0.250		ug/m3 (Air)		104	88 - 110	3	15

QC Association Summary

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Metals

Pre Prep Batch: 628968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	Filter to Air	
320-93641-3	GESPM091422-287	Total/NA	Air	Filter to Air	
320-93641-5	GESPM091422-288	Total/NA	Air	Filter to Air	
320-93641-7	GESPM100322-361	Total/NA	Air	Filter to Air	
MB 320-628968/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-628968/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-628968/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 628975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	3050B	628968
320-93641-3	GESPM091422-287	Total/NA	Air	3050B	628968
320-93641-5	GESPM091422-288	Total/NA	Air	3050B	628968
320-93641-7	GESPM100322-361	Total/NA	Air	3050B	628968
MB 320-628968/1-B	Method Blank	Total/NA	Air	3050B	628968
LCS 320-628968/2-B	Lab Control Sample	Total/NA	Air	3050B	628968
LCSD 320-628968/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	628968

Analysis Batch: 629478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	6020	628975
320-93641-3	GESPM091422-287	Total/NA	Air	6020	628975
320-93641-5	GESPM091422-288	Total/NA	Air	6020	628975
320-93641-7	GESPM100322-361	Total/NA	Air	6020	628975
MB 320-628968/1-B	Method Blank	Total/NA	Air	6020	628975
LCS 320-628968/2-B	Lab Control Sample	Total/NA	Air	6020	628975
LCSD 320-628968/3-B	Lab Control Sample Dup	Total/NA	Air	6020	628975

General Chemistry

Pre Prep Batch: 630343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-2	GESTSP091422-286	Total/NA	Air	Filter to Air	
320-93641-4	GESTSP091422-287	Total/NA	Air	Filter to Air	
320-93641-6	GESTSP091422-288	Total/NA	Air	Filter to Air	
320-93641-8	GESTSP100322-361	Total/NA	Air	Filter to Air	

Analysis Batch: 630356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-2	GESTSP091422-286	Total/NA	Air	40CFR50 App B	630343
320-93641-4	GESTSP091422-287	Total/NA	Air	40CFR50 App B	630343
320-93641-6	GESTSP091422-288	Total/NA	Air	40CFR50 App B	630343
320-93641-8	GESTSP100322-361	Total/NA	Air	40CFR50 App B	630343

Analysis Batch: 630375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	PM10	
320-93641-3	GESPM091422-287	Total/NA	Air	PM10	
320-93641-5	GESPM091422-288	Total/NA	Air	PM10	
320-93641-7	GESPM100322-361	Total/NA	Air	PM10	

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Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Client Sample ID: GESPM091422-286

Lab Sample ID: 320-93641-1

Date Collected: 10/20/22 13:32

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					628968	10/31/22 05:00	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	628975	10/31/22 06:30	█	EET SAC
Total/NA	Analysis	6020		1			629478	11/01/22 10:30	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0121 g	630375	10/26/22 16:00	█	EET SAC

Client Sample ID: GESTSP091422-286

Lab Sample ID: 320-93641-2

Date Collected: 10/20/22 13:32

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			630356	10/26/22 16:00	█	EET SAC
Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51	█	EET SAC

Client Sample ID: GESPM091422-287

Lab Sample ID: 320-93641-3

Date Collected: 10/20/22 13:17

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					628968	10/31/22 05:00	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	628975	10/31/22 06:30	█	EET SAC
Total/NA	Analysis	6020		1			629478	11/01/22 10:39	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0096 g	630375	10/26/22 16:00	█	EET SAC

Client Sample ID: GESTSP091422-287

Lab Sample ID: 320-93641-4

Date Collected: 10/20/22 13:17

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			630356	10/26/22 16:00	█	EET SAC
Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51	█	EET SAC

Client Sample ID: GESPM091422-288

Lab Sample ID: 320-93641-5

Date Collected: 10/25/22 06:45

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					628968	10/31/22 05:00	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	628975	10/31/22 06:30	█	EET SAC
Total/NA	Analysis	6020		1			629478	11/01/22 10:43	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0486 g	630375	10/26/22 16:00	█	EET SAC

Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Client Sample ID: GESTSP091422-288

Lab Sample ID: 320-93641-6

Date Collected: 10/25/22 06:45

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			630356	10/26/22 16:00	█	EET SAC
Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51	█	EET SAC

Client Sample ID: GESPM100322-361

Lab Sample ID: 320-93641-7

Date Collected: 10/25/22 06:34

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					628968	10/31/22 05:00	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	628975	10/31/22 06:30	█	EET SAC
Total/NA	Analysis	6020		1			629478	11/01/22 10:46	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0224 g	630375	10/26/22 16:00	█	EET SAC

Client Sample ID: GESTSP100322-361

Lab Sample ID: 320-93641-8

Date Collected: 10/25/22 06:34

Matrix: Air

Date Received: 10/26/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			630356	10/26/22 16:00	█	EET SAC
Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



Method Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93641-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93641-1	GESPM091422-286	Air	10/20/22 13:32	10/26/22 09:20
320-93641-2	GESTSP091422-286	Air	10/20/22 13:32	10/26/22 09:20
320-93641-3	GESPM091422-287	Air	10/20/22 13:17	10/26/22 09:20
320-93641-4	GESTSP091422-287	Air	10/20/22 13:17	10/26/22 09:20
320-93641-5	GESPM091422-288	Air	10/25/22 06:45	10/26/22 09:20
320-93641-6	GESTSP091422-288	Air	10/25/22 06:45	10/26/22 09:20
320-93641-7	GESPM100322-361	Air	10/25/22 06:34	10/26/22 09:20
320-93641-8	GESTSP100322-361	Air	10/25/22 06:34	10/26/22 09:20

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Login Sample Receipt Checklist

Client: GES-AIS LLC

Job Number: 320-93641-1

Login Number: 93641

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-93743-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
11/8/2022 10:51:17 AM

[REDACTED], Project Manager I

[REDACTED]

[REDACTED]

[REDACTED] test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Job ID: 320-93743-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-93743-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.5° C.

Metals

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

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Detection Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Client Sample ID: GESPM100322-362

Lab Sample ID: 320-93743-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0062		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.14		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.017		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	39		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-362

Lab Sample ID: 320-93743-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	62.3055		0.3033	0.3033	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-363

Lab Sample ID: 320-93743-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0024		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0050		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	24		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-363

Lab Sample ID: 320-93743-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.9633		0.2834	0.2834	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-364

Lab Sample ID: 320-93743-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0075		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.17		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.018		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	40		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-364

Lab Sample ID: 320-93743-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	57.3767		0.3279	0.3279	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-365

Lab Sample ID: 320-93743-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.0017	0.00025	ug/m3 (Air)	1		6020	Total/NA
Copper	0.041		0.0034	0.00025	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0093		0.0017	0.00024	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.70	0.70	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-365

Lab Sample ID: 320-93743-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.2343		0.7050	0.7050	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Client Sample ID: GESPM100322-362

Lab Sample ID: 320-93743-1

Date Collected: 10/26/22 06:54

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0062		0.00070	0.00010	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:22	1
Copper	0.14		0.0014	0.00010	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:22	1
Manganese	0.017		0.00070	0.000098	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	39		0.29	0.29	ug/m3			10/31/22 07:30	1

Client Sample ID: GESTSP100322-362

Lab Sample ID: 320-93743-2

Date Collected: 10/26/22 06:54

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	62.3055		0.3033	0.3033	ug/m3 (Air)			10/31/22 07:30	1

Client Sample ID: GESPM100322-363

Lab Sample ID: 320-93743-3

Date Collected: 10/26/22 06:44

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024		0.00068	0.00010	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:31	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:31	1
Manganese	0.0050		0.00068	0.000096	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	24		0.29	0.29	ug/m3			10/31/22 07:30	1

Client Sample ID: GESTSP100322-363

Lab Sample ID: 320-93743-4

Date Collected: 10/26/22 06:44

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	39.9633		0.2834	0.2834	ug/m3 (Air)			10/31/22 07:30	1

Client Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Client Sample ID: GESPM100322-364

Lab Sample ID: 320-93743-5

Date Collected: 10/27/22 06:43

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0075		0.00071	0.00011	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:35	1
Copper	0.17		0.0014	0.00011	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:35	1
Manganese	0.018		0.00071	0.000099	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	40		0.29	0.29	ug/m3			10/31/22 07:30	1

Client Sample ID: GESTSP100322-364

Lab Sample ID: 320-93743-6

Date Collected: 10/27/22 06:43

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	57.3767		0.3279	0.3279	ug/m3 (Air)			10/31/22 07:30	1

Client Sample ID: GESPM100322-365

Lab Sample ID: 320-93743-7

Date Collected: 10/27/22 06:33

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.0017	0.00025	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:38	1
Copper	0.041		0.0034	0.00025	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:38	1
Manganese	0.0093		0.0017	0.00024	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	29		0.70	0.70	ug/m3			10/31/22 07:30	1

Client Sample ID: GESTSP100322-365

Lab Sample ID: 320-93743-8

Date Collected: 10/27/22 06:33

Matrix: Air

Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	47.2343		0.7050	0.7050	ug/m3 (Air)			10/31/22 07:30	1

QC Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-629611/1-B
Matrix: Air
Analysis Batch: 629826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:12	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:12	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:12	1

Lab Sample ID: LCS 320-629611/2-B
Matrix: Air
Analysis Batch: 629826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.239		ug/m3 (Air)		100	86 - 111
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.246		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCSD 320-629611/3-B
Matrix: Air
Analysis Batch: 629826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629626

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.246		ug/m3 (Air)		102	86 - 111	3	15
Copper	0.240	0.245		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	0	15

QC Association Summary

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Metals

Pre Prep Batch: 629611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-1	GESPM100322-362	Total/NA	Air	Filter to Air	
320-93743-3	GESPM100322-363	Total/NA	Air	Filter to Air	
320-93743-5	GESPM100322-364	Total/NA	Air	Filter to Air	
320-93743-7	GESPM100322-365	Total/NA	Air	Filter to Air	
MB 320-629611/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-629611/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-629611/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 629626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-1	GESPM100322-362	Total/NA	Air	3050B	629611
320-93743-3	GESPM100322-363	Total/NA	Air	3050B	629611
320-93743-5	GESPM100322-364	Total/NA	Air	3050B	629611
320-93743-7	GESPM100322-365	Total/NA	Air	3050B	629611
MB 320-629611/1-B	Method Blank	Total/NA	Air	3050B	629611
LCS 320-629611/2-B	Lab Control Sample	Total/NA	Air	3050B	629611
LCSD 320-629611/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	629611

Analysis Batch: 629826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-1	GESPM100322-362	Total/NA	Air	6020	629626
320-93743-3	GESPM100322-363	Total/NA	Air	6020	629626
320-93743-5	GESPM100322-364	Total/NA	Air	6020	629626
320-93743-7	GESPM100322-365	Total/NA	Air	6020	629626
MB 320-629611/1-B	Method Blank	Total/NA	Air	6020	629626
LCS 320-629611/2-B	Lab Control Sample	Total/NA	Air	6020	629626
LCSD 320-629611/3-B	Lab Control Sample Dup	Total/NA	Air	6020	629626

General Chemistry

Pre Prep Batch: 631107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-2	GESTSP100322-362	Total/NA	Air	Filter to Air	
320-93743-4	GESTSP100322-363	Total/NA	Air	Filter to Air	
320-93743-6	GESTSP100322-364	Total/NA	Air	Filter to Air	
320-93743-8	GESTSP100322-365	Total/NA	Air	Filter to Air	

Analysis Batch: 631118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-1	GESPM100322-362	Total/NA	Air	PM10	
320-93743-3	GESPM100322-363	Total/NA	Air	PM10	
320-93743-5	GESPM100322-364	Total/NA	Air	PM10	
320-93743-7	GESPM100322-365	Total/NA	Air	PM10	

Analysis Batch: 631119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-2	GESTSP100322-362	Total/NA	Air	40CFR50 App B	631107
320-93743-4	GESTSP100322-363	Total/NA	Air	40CFR50 App B	631107
320-93743-6	GESTSP100322-364	Total/NA	Air	40CFR50 App B	631107
320-93743-8	GESTSP100322-365	Total/NA	Air	40CFR50 App B	631107

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Client Sample ID: GESPM100322-362

Lab Sample ID: 320-93743-1

Date Collected: 10/26/22 06:54

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					629611	11/02/22 04:56		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	629626	11/02/22 06:10		EET SAC
Total/NA	Analysis	6020		1			629826	11/02/22 12:22		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0661 g	631118	10/31/22 07:30		EET SAC

Client Sample ID: GESTSP100322-362

Lab Sample ID: 320-93743-2

Date Collected: 10/26/22 06:54

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631119	10/31/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01		EET SAC

Client Sample ID: GESPM100322-363

Lab Sample ID: 320-93743-3

Date Collected: 10/26/22 06:44

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					629611	11/02/22 04:56		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	629626	11/02/22 06:10		EET SAC
Total/NA	Analysis	6020		1			629826	11/02/22 12:31		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0419 g	631118	10/31/22 07:30		EET SAC

Client Sample ID: GESTSP100322-363

Lab Sample ID: 320-93743-4

Date Collected: 10/26/22 06:44

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631119	10/31/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01		EET SAC

Client Sample ID: GESPM100322-364

Lab Sample ID: 320-93743-5

Date Collected: 10/27/22 06:43

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					629611	11/02/22 04:56		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	629626	11/02/22 06:10		EET SAC
Total/NA	Analysis	6020		1			629826	11/02/22 12:35		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0676 g	631118	10/31/22 07:30		EET SAC

Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Client Sample ID: GESTSP100322-364

Lab Sample ID: 320-93743-6

Date Collected: 10/27/22 06:43

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631119	10/31/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01	█	EET SAC

Client Sample ID: GESPM100322-365

Lab Sample ID: 320-93743-7

Date Collected: 10/27/22 06:33

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					629611	11/02/22 04:56	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	629626	11/02/22 06:10	█	EET SAC
Total/NA	Analysis	6020		1			629826	11/02/22 12:38	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0204 g	631118	10/31/22 07:30	█	EET SAC

Client Sample ID: GESTSP100322-365

Lab Sample ID: 320-93743-8

Date Collected: 10/27/22 06:33

Matrix: Air

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631119	10/31/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93743-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93743-1	GESPM100322-362	Air	10/26/22 06:54	10/28/22 09:35
320-93743-2	GESTSP100322-362	Air	10/26/22 06:54	10/28/22 09:35
320-93743-3	GESPM100322-363	Air	10/26/22 06:44	10/28/22 09:35
320-93743-4	GESTSP100322-363	Air	10/26/22 06:44	10/28/22 09:35
320-93743-5	GESPM100322-364	Air	10/27/22 06:43	10/28/22 09:35
320-93743-6	GESTSP100322-364	Air	10/27/22 06:43	10/28/22 09:35
320-93743-7	GESPM100322-365	Air	10/27/22 06:33	10/28/22 09:35
320-93743-8	GESTSP100322-365	Air	10/27/22 06:33	10/28/22 09:35

- 1
- 2
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- 10
- 11
- 12
- 13
- 14

**CHAIN-OF-CUSTODY
RECORD**

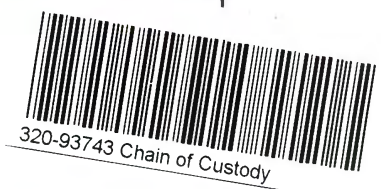
Gilbane Federal
2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT102722AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	Code	Matrix
		A	Air
Equipment:	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code	Container/Preservative
		1	1x Envelope, None



Event: Parcel E Phase 2 Air Monitoring														
Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
											Top	Bottom		
1	GESPM100322-362	A	10/26/2022	0654	[Redacted]	X	X		AMSE1	N1	0.00	0.00	1	VOLUME: 1715.94 (M3)
2	GESTSP100322-362	A	10/26/2022	0654	[Redacted]		X		AMSE1	N1	0.00	0.00	1	VOLUME: 1648.33 (M3)
3	GESPM100322-363	A	10/26/2022	0644	[Redacted]	X	X		AMSE2	N1	0.00	0.00	1	VOLUME: 1753.50 (M3)
4	GESTSP100322-363	A	10/26/2022	0644	[Redacted]		X		AMSE2	N1	0.00	0.00	1	VOLUME: 1764.12 (M3)
5	GESPM100322-364	A	10/27/2022	0643	[Redacted]	X	X		AMSE1	N1	0.00	0.00	1	VOLUME: 1695.24 (M3)
6	GESTSP100322-364	A	10/27/2022	0643	[Redacted]		X		AMSE1	N1	0.00	0.00	1	VOLUME: 1525.01 (M3)
7	GESPM100322-365	A	10/27/2022	0633	[Redacted]	X	X		AMSE2	N1	0.00	0.00	1	VOLUME: 711.25 (M3)
8	GESTSP100322-365	A	10/27/2022	0633	[Redacted]		X		AMSE2	N1	0.00	0.00	1	VOLUME: 709.23 (M3)
9														
10														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	10/27/22	1600	FedEx	10/27/22	1600	Shipping Date: 10/27/2022 / FedEx 7703 1543 2312
			[Redacted]		10-28-22 0935	Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy_COC_Field
October 27, 2022

21.50



Login Sample Receipt Checklist

Client: GES-AIS LLC

Job Number: 320-93743-1

Login Number: 93743

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-93855-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
GES-AIS LLC
1501 W Fountainhead Parkway
Ste 550
Tempe, Arizona 85282

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
11/8/2022 3:22:00 PM

[REDACTED], Project Manager I

[REDACTED]

[REDACTED]

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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results through



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Definitions/Glossary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Job ID: 320-93855-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-93855-1

Comments

No additional comments.

Receipt

The samples were received on 11/2/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.4° C.

Metals

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

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Detection Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Client Sample ID: GESPM100322-366

Lab Sample ID: 320-93855-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0063		0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.16		0.0040	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.019		0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	30		0.84	0.84	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-366

Lab Sample ID: 320-93855-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.4372		0.8801	0.8801	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-367

Lab Sample ID: 320-93855-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030		0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.18		0.0039	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0077		0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.82	0.82	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-367

Lab Sample ID: 320-93855-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	38.7838		0.8182	0.8182	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-368

Lab Sample ID: 320-93855-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.085		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0091		0.00071	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-368

Lab Sample ID: 320-93855-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	28.9929		0.3104	0.3104	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-369

Lab Sample ID: 320-93855-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.35		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0064		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-369

Lab Sample ID: 320-93855-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	25.5382		0.2844	0.2844	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Client Sample ID: GESPM100322-366

Lab Sample ID: 320-93855-1

Date Collected: 10/27/22 15:05

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0063		0.0020	0.00030	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:37	1
Copper	0.16		0.0040	0.00030	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:37	1
Manganese	0.019		0.0020	0.00028	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	30		0.84	0.84	ug/m3			11/03/22 07:30	1

Client Sample ID: GESTSP100322-366

Lab Sample ID: 320-93855-2

Date Collected: 10/27/22 15:05

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	36.4372		0.8801	0.8801	ug/m3 (Air)			11/03/22 07:30	1

Client Sample ID: GESPM100322-367

Lab Sample ID: 320-93855-3

Date Collected: 10/27/22 14:53

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030		0.0020	0.00030	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:46	1
Copper	0.18		0.0039	0.00030	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:46	1
Manganese	0.0077		0.0020	0.00028	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	20		0.82	0.82	ug/m3			11/03/22 07:30	1

Client Sample ID: GESTSP100322-367

Lab Sample ID: 320-93855-4

Date Collected: 10/27/22 14:53

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	38.7838		0.8182	0.8182	ug/m3 (Air)			11/03/22 07:30	1

Client Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Client Sample ID: GESPM100322-368

Lab Sample ID: 320-93855-5

Date Collected: 11/01/22 06:41

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00071	0.00011	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:49	1
Copper	0.085		0.0014	0.00011	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:49	1
Manganese	0.0091		0.00071	0.00010	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	22		0.30	0.30	ug/m3			11/03/22 07:30	1

Client Sample ID: GESTSP100322-368

Lab Sample ID: 320-93855-6

Date Collected: 11/01/22 06:41

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	28.9929		0.3104	0.3104	ug/m3 (Air)			11/03/22 07:30	1

Client Sample ID: GESPM100322-369

Lab Sample ID: 320-93855-7

Date Collected: 11/01/22 06:31

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0023		0.00068	0.00010	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:53	1
Copper	0.35		0.0014	0.00010	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:53	1
Manganese	0.0064		0.00068	0.000096	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	23		0.28	0.28	ug/m3			11/03/22 07:30	1

Client Sample ID: GESTSP100322-369

Lab Sample ID: 320-93855-8

Date Collected: 11/01/22 06:31

Matrix: Air

Date Received: 11/02/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	25.5382		0.2844	0.2844	ug/m3 (Air)			11/03/22 07:30	1

QC Sample Results

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-630819/1-B
Matrix: Air
Analysis Batch: 631043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:27	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:27	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:27	1

Lab Sample ID: LCS 320-630819/2-B
Matrix: Air
Analysis Batch: 631043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.253		ug/m3 (Air)		105	86 - 111
Copper	0.240	0.247		ug/m3 (Air)		103	85 - 110
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110

Lab Sample ID: LCSD 320-630819/3-B
Matrix: Air
Analysis Batch: 631043

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 630871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.253		ug/m3 (Air)		106	86 - 111	0	15
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110	1	15

QC Association Summary

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Metals

Pre Prep Batch: 630819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	Filter to Air	
320-93855-3	GESPM100322-367	Total/NA	Air	Filter to Air	
320-93855-5	GESPM100322-368	Total/NA	Air	Filter to Air	
320-93855-7	GESPM100322-369	Total/NA	Air	Filter to Air	
MB 320-630819/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-630819/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-630819/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 630871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	3050B	630819
320-93855-3	GESPM100322-367	Total/NA	Air	3050B	630819
320-93855-5	GESPM100322-368	Total/NA	Air	3050B	630819
320-93855-7	GESPM100322-369	Total/NA	Air	3050B	630819
MB 320-630819/1-B	Method Blank	Total/NA	Air	3050B	630819
LCS 320-630819/2-B	Lab Control Sample	Total/NA	Air	3050B	630819
LCSD 320-630819/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	630819

Analysis Batch: 631043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	6020	630871
320-93855-3	GESPM100322-367	Total/NA	Air	6020	630871
320-93855-5	GESPM100322-368	Total/NA	Air	6020	630871
320-93855-7	GESPM100322-369	Total/NA	Air	6020	630871
MB 320-630819/1-B	Method Blank	Total/NA	Air	6020	630871
LCS 320-630819/2-B	Lab Control Sample	Total/NA	Air	6020	630871
LCSD 320-630819/3-B	Lab Control Sample Dup	Total/NA	Air	6020	630871

General Chemistry

Pre Prep Batch: 631015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-2	GESTSP100322-366	Total/NA	Air	Filter to Air	
320-93855-4	GESTSP100322-367	Total/NA	Air	Filter to Air	
320-93855-6	GESTSP100322-368	Total/NA	Air	Filter to Air	
320-93855-8	GESTSP100322-369	Total/NA	Air	Filter to Air	

Analysis Batch: 631028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	PM10	
320-93855-3	GESPM100322-367	Total/NA	Air	PM10	
320-93855-5	GESPM100322-368	Total/NA	Air	PM10	
320-93855-7	GESPM100322-369	Total/NA	Air	PM10	

Analysis Batch: 631111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-2	GESTSP100322-366	Total/NA	Air	40CFR50 App B	631015
320-93855-4	GESTSP100322-367	Total/NA	Air	40CFR50 App B	631015
320-93855-6	GESTSP100322-368	Total/NA	Air	40CFR50 App B	631015
320-93855-8	GESTSP100322-369	Total/NA	Air	40CFR50 App B	631015

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Client Sample ID: GESPM100322-366

Lab Sample ID: 320-93855-1

Date Collected: 10/27/22 15:05

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10	█	EET SAC
Total/NA	Analysis	6020		1			631043	11/07/22 14:37	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0177 g	631028	11/03/22 07:30	█	EET SAC

Client Sample ID: GESTSP100322-366

Lab Sample ID: 320-93855-2

Date Collected: 10/27/22 15:05

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631111	11/03/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48	█	EET SAC

Client Sample ID: GESPM100322-367

Lab Sample ID: 320-93855-3

Date Collected: 10/27/22 14:53

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10	█	EET SAC
Total/NA	Analysis	6020		1			631043	11/07/22 14:46	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0120 g	631028	11/03/22 07:30	█	EET SAC

Client Sample ID: GESTSP100322-367

Lab Sample ID: 320-93855-4

Date Collected: 10/27/22 14:53

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631111	11/03/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48	█	EET SAC

Client Sample ID: GESPM100322-368

Lab Sample ID: 320-93855-5

Date Collected: 11/01/22 06:41

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10	█	EET SAC
Total/NA	Analysis	6020		1			631043	11/07/22 14:49	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0366 g	631028	11/03/22 07:30	█	EET SAC

Lab Chronicle

Client: GES-AIS LLC
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Client Sample ID: GESTSP100322-368

Lab Sample ID: 320-93855-6

Date Collected: 11/01/22 06:41

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631111	11/03/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48	█	EET SAC

Client Sample ID: GESPM100322-369

Lab Sample ID: 320-93855-7

Date Collected: 11/01/22 06:31

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35	█	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10	█	EET SAC
Total/NA	Analysis	6020		1			631043	11/07/22 14:53	█	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0411 g	631028	11/03/22 07:30	█	EET SAC

Client Sample ID: GESTSP100322-369

Lab Sample ID: 320-93855-8

Date Collected: 11/01/22 06:31

Matrix: Air

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631111	11/03/22 07:30	█	EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48	█	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC

Protocol References:

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: GES-AIS LLC
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-93855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93855-1	GESPM100322-366	Air	10/27/22 15:05	11/02/22 09:30
320-93855-2	GESTSP100322-366	Air	10/27/22 15:05	11/02/22 09:30
320-93855-3	GESPM100322-367	Air	10/27/22 14:53	11/02/22 09:30
320-93855-4	GESTSP100322-367	Air	10/27/22 14:53	11/02/22 09:30
320-93855-5	GESPM100322-368	Air	11/01/22 06:41	11/02/22 09:30
320-93855-6	GESTSP100322-368	Air	11/01/22 06:41	11/02/22 09:30
320-93855-7	GESPM100322-369	Air	11/01/22 06:31	11/02/22 09:30
320-93855-8	GESTSP100322-369	Air	11/01/22 06:31	11/02/22 09:30

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**CHAIN-OF-CUSTODY
RECORD**


Gilbane Federal
2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT110122AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
			A Air	
Equipment:			Code Container/Preservative	
			1 1x Envelope, None	


 320-93855 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring															
Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GESPM100322-366	A	10/27/2022	1505	[Redacted]	X	X				AMSE1	N2	0.00 0.00	1	VOLUME: 593.09 (M3)
2	GESTSP100322-366	A	10/27/2022	1505	[Redacted]		X				AMSE1	N2	0.00 0.00	1	VOLUME: 568.10 (M3)
3	GESPM100322-367	A	10/27/2022	1453	[Redacted]	X	X				AMSE2	N2	0.00 0.00	1	VOLUME: 609.62 (M3)
4	GESTSP100322-367	A	10/27/2022	1453	[Redacted]		X				AMSE2	N2	0.00 0.00	1	VOLUME: 611.08 (M3)
5	GESPM100322-368	A	11/01/2022	0641	[Redacted]	X	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1683.45 (M3)
6	GESTSP100322-368	A	11/01/2022	0641	[Redacted]		X				AMSE1	N1	0.00 0.00	1	VOLUME: 1610.74 (M3)
7	GESPM100322-369	A	11/01/2022	0631	[Redacted]	X	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1758.61 (M3)
8	GESTSP100322-369	A	11/01/2022	0631	[Redacted]		X				AMSE2	N1	0.00 0.00	1	VOLUME: 1758.15 (M3)
9															
10															

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	11/01/22	1600	FedEx	11/01/22	1600	Shipping Date: 11/1/2022 / FedEx 7703 5851 5977
			[Redacted]	11-2-22	0930	
						Received by Laboratory: (Signature, Date, Time) & condition

19.4°C

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11/8/2022



Login Sample Receipt Checklist

Client: GES-AIS LLC

Job Number: 320-93855-1

Login Number: 93855

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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

