



**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

July 1st, 2022 through July 31st, 2022

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July 1st, 2022 through July 31st, 2022

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Prepared for:

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Table of Contents

1.0	Introduction.....	1-1
2.0	Monitoring Site Locations	2-1
3.0	Analytical Methods	3-1
3.1	Asbestos.....	3-1
3.2	PM10, Copper, Lead, and Manganese.....	3-1
3.3	TSP	3-1
3.4	Radionuclides of Concern	3-2
4.0	Air Monitoring Data Interpretation and Action Levels.....	4-1
5.0	Air Monitoring Results	5-1
6.0	References	6-1

List of Attachments

Attachment 1: Ambient Pressure, Temperature, and Prevalent Wind Direction Monitoring Results.....	A-1
Attachment 2: Asbestos Monitoring Results.....	B-1
Attachment 3: Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results.....	C-1
Attachment 4: Copper, Lead, and Manganese Monitoring Results.....	D-1
Attachment 5: Total Suspended Particulates Monitoring Results.....	E-1
Attachment 6: Air Sample Results – Public Exposure Monitoring.....	F-1
Attachment 7: Laboratory Reports/Corrective Actions.....	G-1

List of Figures

Figure 2-1: Air Monitoring Locations

List of Tables

Table 4-1: Air Monitoring Threshold Criteria.....	4-1
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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 July 1st, 2022 through July 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).

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.

Air Monitoring Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from July 1st, 2022 through July 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 July 1st, 2022 through July 31st, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from July 1st, 2022 through July 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 July 1st, 2022 through July 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 July 1st, 2022 through July 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 July 1st, 2022 through July 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
7/5/2022	30.03	65.35	W
7/6/2022	30.07	62.44	W
7/7/2022	30.12	61.25	W
7/11/2022	29.96	60.94	W
7/12/2022	29.98	62.37	W
7/13/2022	30.03	60.59	WSW
7/14/2022	30.05	60.55	WSW
7/18/2022	30.04	59.97	W
7/19/2022	30.10	56.30	W
7/20/2022	30.12	55.76	W
7/21/2022	30.11	56.49	W
7/25/2022	29.99	59.25	W
7/26/2022	30.04	60.32	W
7/27/2022	30.05	58.37	W
7/28/2022	30.02	58.00	W

Notes:

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

°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)
MSE01-070522	07/05/22	1	506	1012	11.5	0.006	No
MSE02-070522	07/05/22	2	535	1070	8.5	0.004	No
MSE01-070622	07/06/22	1	502	1004	21.5	0.011	No
MSE02-070622	07/06/22	2	522	1044	2.0	<0.003	No
MSE01-070722	07/07/22	1	441	882	9.5	0.005	No
MSE02-070722	07/07/22	2	463	926	9.5	0.005	No
MSE01-071122	07/11/22	1	549	1098	10.0	0.004	No
MSE02-071122	07/11/22	2	542	1084	9.0	0.004	No
MSE01-071222	07/12/22	1	516	1032	13.0	0.006	No
MSE02-071222	07/12/22	2	538	1076	7.5	0.003	No
MSE01-071322	07/13/22	1	420	840	4.5	<0.003	No
MSE02-071322	07/13/22	2	503	1006	5.0	<0.003	No
MSE01-071422	07/14/22	1	500	1000	8.0	0.004	No
MSE02-071422	07/14/22	2	503	1006	3.0	<0.003	No
MSE01-071822	07/18/22	1	531	1062	5.5	0.003	No
MSE02-071822	07/18/22	2	556	1112	6.0	0.003	No
MSE01-071922	07/19/22	1	534	1068	4.5	<0.003	No
MSE02-071922	07/19/22	2	530	1060	2.5	<0.003	No
MSE01-072022	07/20/22	1	553	1106	6.0	0.003	No
MSE02-072022	07/20/22	2	548	1096	3.5	<0.002	No
MSE01-072122	07/21/22	1	497	994	1.0	<0.003	No
MSE02-072122	07/21/22	2	513	1026	2.5	<0.003	No
MSE01-072522	07/25/22	1	481	962	1.0	<0.003	No
MSE02-072522	07/25/22	2	528	1056	4.0	<0.003	No
MSE01-072622	07/26/22	1	520	1040	3.5	<0.003	No
MSE02-072622	07/26/22	2	537	1074	3.0	<0.003	No
MSE01-072722	07/27/22	1	473	946	3.0	<0.003	No
MSE02-072722	07/27/22	2	485	970	2.0	<0.003	No
MSE01-072822	07/28/22	1	475	950	1.5	<0.003	No
MSE02-072822	07/28/22	2	475	950	0.0	<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 ⁴ (ug/m ³)	Exceedance (Yes/No)
GES_PM061322-20	1	7/6/2022	1748.17	0.0410						
GES_PM061322-21	2	7/6/2022	1761.32	0.0053	-0.0357	-35.7	5,000	No	50	No
GES_PM061322-22	1	7/7/2022	1744.91	0.0510						
GES_PM061322-23	2	7/7/2022	1739.53	0.0037	-0.0473	-47.3	5,000	No	50	No
GES_PM061322-24	1	7/7/2022 ²	536.05	0.0350						
GES_PM061322-25	2	7/7/2022 ²	566.02	0.0051	-0.0299	-29.9	5,000	No	50	No
GES_PM061322-26	1	7/12/2022	1744.64	0.023						
GES_PM061322-27	2	7/12/2022	1711.98	0.0160	-0.0070	-7.0	5,000	No	50	No
GES_PM061322-28	1	7/13/2022	1731.65	0.019						
GES_PM061322-29	2	7/13/2022	1778.22	0.005	-0.0137	-13.7	5,000	No	50	No
GES_PM061322-30	1	7/14/2022	1733.33	0.023						
GES_PM061322-31	2	7/14/2022	1759.42	0.014	-0.0090	-9.0	5,000	No	50	No
GES_PM061322-32	1	7/14/2022 ²	614.18	0.075						
GES_PM061322-33	2	7/14/2022 ^{2,3}	613.19	0.026	-0.0490	-49.0	5,000	No	50	No
GES_PM061322-34	1	7/19/2022	1707.26	0.0390						
GES_PM061322-35	2	7/19/2022	1758.30	0.025	-0.0140	-14.0	5,000	No	50	No
GES_PM061322-36	1	7/20/2022	1734.56	0.013						
GES_PM061322-55	2	7/20/2022	1759.83	0.013	0.0000	0.0	5,000	No	50	No
GES_PM061322-56	1	7/21/2022	1730.75	0.014						
GES_PM061322-57	2	7/21/2022	1750.31	0.011	-0.0030	-3.0	5,000	No	50	No
GES_PM061322-58	1	7/21/2022 ²	588.44	0.009						
GES_PM061322-59	2	7/21/2022 ²	619.15	0.0074 J	-0.0011	-1.1	5,000	No	50	No
GES_PM061322-60	1	7/26/2022	1693.78	0.0094						
GES_PM061322-61	2	7/26/2022	1738.34	0.01	0.0006	0.6	5,000	No	50	No
GES_PM061322-62	1	7/27/2022	1735.63	0.012						
GES_PM061322-63	2	7/27/2022	1752.79	0.011	-0.0010	-1.0	5,000	No	50	No
GES_PM061322-64	1	7/28/2022	1715.00	0.0064						
GES_PM061322-65	2	7/28/2022	1725.92	0.009	0.0026	2.6	5,000	No	50	No
GES_PM061322-66	1	7/28/2022 ²	561.14	0.0078 J						
GES_PM061322-67	2	7/28/2022 ²	568.09	0.007	-0.0009	-0.9	5,000	No	50	No

Notes:

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

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

³Odometer malfunction

⁴PM10 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.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

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

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)
GES_PM061322-20	1	7/6/2022	1748.17	0.000030	No	0.00001200	No	0.00004200	No
GES_PM061322-21	2	7/6/2022	1761.32	0.000019	No	0.00000120	No	0.00000250	No
GES_PM061322-22	1	7/7/2022	1744.91	0.000069	No	0.00003300	No	0.00008900	No
GES_PM061322-23	2	7/7/2022	1739.53	0.000007	No	0.00000120	No	0.00000250	No
GES_PM061322-24	1	7/7/2022 ²	536.05	0.000067	No	0.00002500	No	0.00003200	No
GES_PM061322-25	2	7/7/2022 ²	566.02	0.000025	No	0.00000280	No	0.00000440	No
GES_PM061322-26	1	7/12/2022	1744.64	0.000020	No	0.0000054	No	0.000013	No
GES_PM061322-27	2	7/12/2022	1711.98	0.000085	No	0.00000240	No	0.000006	No
GES_PM061322-28	1	7/13/2022	1731.65	0.000021	No	0.00000530	No	0.000012	No
GES_PM061322-29	2	7/13/2022	1778.22	0.00001	No	0.00000120	No	0.0000026	No
GES_PM061322-30	1	7/14/2022	1733.33	0.000024	No	0.00000770	No	0.00000950	No
GES_PM061322-31	2	7/14/2022	1759.42	0.000020	No	0.00000120	No	0.00000230	No
GES_PM061322-32	1	7/14/2022 ²	614.18	0.000150	No	0.00002800	No	0.00004800	No
GES_PM061322-33	2	7/14/2022 ^{2,3}	613.19	0.000045	No	0.00000330	No	0.00000730	No
GES_PM061322-34	1	7/19/2022	1707.26	0.000028	No	0.00000500	No	0.00001300	No
GES_PM061322-35	2	7/19/2022	1758.30	0.000051	No	0.00000390	No	0.00000700	No
GES_PM061322-36	1	7/20/2022	1734.56	0.000010	No	0.00000310	No	0.00000850	No
GES_PM061322-55	2	7/20/2022	1759.83	0.000093	No	0.00000400	No	0.00000730	No
GES_PM061322-56	1	7/21/2022	1730.75	0.000016	No	0.00000280	No	0.00000690	No
GES_PM061322-57	2	7/21/2022	1750.31	0.000120	No	0.00000320	No	0.00000620	No
GES_PM061322-58	1	7/21/2022 ²	588.44	0.000018	No	0.00000210	No	0.00000450	No
GES_PM061322-59	2	7/21/2022 ²	619.15	0.000099	No	0.00000290	No	0.00000580	No
GES_PM061322-60	1	7/26/2022	1693.78	0.000013	No	0.00000190	No	0.00000540	No
GES_PM061322-61	2	7/26/2022	1738.34	0.000049	No	0.00000190	No	0.00000480	No
GES_PM061322-62	1	7/27/2022	1735.63	0.000016	No	0.00000270	No	0.00000890	No
GES_PM061322-63	2	7/27/2022	1752.79	0.000097	No	0.00000290	No	0.00000630	No
GES_PM061322-64	1	7/28/2022	1715.00	0.000011	No	0.00000160	No	0.00000420	No
GES_PM061322-65	2	7/28/2022	1725.92	0.000160	No	0.00000210	No	0.00000520	No
GES_PM061322-66	1	7/28/2022 ²	561.14	0.000019	No	0.0000016 J	No	0.00000340	No
GES_PM061322-67	2	7/28/2022 ²	568.09	0.000130	No	0.0000015 J	No	0.00000350	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.

³Odometer malfunction

Samples analyzed by Eurofins TestAmerica

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.

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)
GES_TSP061322-20	1	7/6/2022	1683.62	0.0745418			
GES_TSP061322-21	2	7/6/2022	1762.79	0.011062	-0.063	0.5	No
GES_TSP061322-22	1	7/7/2022	1689.02	0.0687973			
GES_TSP061322-23	2	7/7/2022	1683.44	0.0101578	-0.059	0.5	No
GES_TSP061322-24	1	7/7/2022 ²	514.27	0.0937251			
GES_TSP061322-25	2	7/7/2022 ²	569.14	0.0130021	-0.081	0.5	No
GES_TSP061322-26	1	7/12/2022 ³	1709.09	0.0306596			
GES_TSP061322-27	2	7/12/2022	1711.62	0.024246	-0.006	0.5	No
GES_TSP061322-28	1	7/13/2022 ³	1671.72	0.0329002			
GES_TSP061322-29	2	7/13/2022	1776.21	0.0113725	-0.022	0.5	No
GES_TSP061322-30	1	7/14/2022	1687.38	0.0473515			
GES_TSP061322-31	2	7/14/2022	1779.33	0.0189397	-0.028	0.5	No
GES_TSP061322-32	1	7/14/2022 ²	588.43	0.114712			
GES_TSP061322-33	2	7/14/2022 ^{2,3}	608.69	0.0519148	-0.063	0.5	No
GES_TSP061322-34	1	7/19/2022 ³	1645.08	0.0528242			
GES_TSP061322-35	2	7/19/2022	1718.64	0.0470721	-0.006	0.5	No
GES_TSP061322-36	1	7/20/2022	1671.34	0.0262663			
GES_TSP062722-55	2	7/20/2022	1736.81	0.0221095	-0.004	0.5	No
GES_TSP062722-56	1	7/21/2022	1632.81	0.0239464			
GES_TSP062722-57	2	7/21/2022	1735.84	0.0183773	-0.006	0.5	No
GES_TSP062722-58	1	7/21/2022 ²	557.73	0.0134474			
GES_TSP062722-59	2	7/21/2022 ²	607.63	0.002304 J	-0.0111	0.5	No
GES_TSP062722-60	1	7/26/2022	1620.74	0.0181399			
GES_TSP062722-61	2	7/26/2022	1721.04	0.0165598	-0.0016	0.5	No
GES_TSP062722-62	1	7/27/2022	1665.21	0.0247416			
GES_TSP062722-63	2	7/27/2022	1742.47	0.0171022	-0.008	0.5	No
GES_TSP062722-64	1	7/28/2022	1644.32	0.0114333			
GES_TSP062722-65	2	7/28/2022	1721.16	0.0134793	0.002	0.5	No
GES_TSP062722-66	1	7/28/2022 ²	537.11	0.0029789 J			
GES_TSP062722-67	2	7/28/2022 ²	563.42	0.0117142	0.009	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.

³Odometer malfunction

Samples analyzed by Eurofins TestAmerica

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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Project Information									Effluent Air Concentration				Sampling Period				Color Codes					
Contract / Task Order Number:			Project Title / Location:			Gilbane Project Number:				Alpha	Beta	Air samples collected				Value < 0.1 x Effluent Conc (i.e., < 10%)						
N62473-17-D-0005 / F4332			HPNSParcel E Phase 2 RA / San Francisco, CA			J310000400				Radionuclide	Ra-226	Sr-90	between 05 Jul 2022				Value > 0.1 x Effluent Conc (i.e., > 10%)					
Information effective as of: 29 Aug 2022										Effluent Conc (µCi/ml)	9.E-13	6.E-12	and 28 Jul 2022				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-0605	Perimeter	MSE01	PE13	50	7/5/22 6:40	7/5/22 15:19	519	2.6E+07	E	07/11/22	1	cpm	0.35	3.25	2.2	6.2	3.8E-14	1.1E-13	4.2%	1.8%	BCS	CB
AS-0606	Perimeter	MSE02	PE14	60	7/5/22 6:50	7/5/22 15:15	505	3.0E+07	E	07/11/22	1	cpm	0.55	3.90	3.5	8.2	5.1E-14	1.2E-13	5.7%	2.0%	BCS	CB
AS-0607	Perimeter	MSE01	PE13	50	7/6/22 4:15	7/6/22 15:38	683	3.4E+07	E	07/11/22	1	cpm	0.30	4.30	1.9	9.4	2.5E-14	1.2E-13	2.8%	2.1%	BCS	CB
AS-0608	Perimeter	MSE02	PE14	60	7/6/22 4:05	7/6/22 15:40	695	4.2E+07	E	07/11/22	1	cpm	0.35	4.90	2.2	11.2	2.4E-14	1.2E-13	2.6%	2.0%	BCS	CB
AS-0609	Perimeter	MSE01	PE13	50	7/7/22 3:35	7/7/22 14:47	672	3.4E+07	E	07/11/22	1	cpm	0.00	3.65	0.0	7.4	0.0E+00	1.0E-13	0.0%	1.7%	BCS	CB
AS-0610	Perimeter	MSE02	PE14	60	7/7/22 3:55	7/7/22 14:36	641	3.8E+07	E	07/11/22	1	cpm	0.20	4.35	1.3	9.5	1.5E-14	1.1E-13	1.6%	1.9%	BCS	CB
AS-0611	Perimeter	MSE01	PE13	50	7/11/22 6:45	7/11/22 15:53	548	2.7E+07	E	07/18/22	1	cpm	0.05	4.30	0.3	9.4	5.2E-15	1.5E-13	0.6%	2.6%	DFB	CB
AS-0612	Perimeter	MSE02	PE14	60	7/11/22 6:55	7/11/22 15:58	543	3.3E+07	E	07/18/22	1	cpm	0.40	3.55	2.5	7.1	3.5E-14	9.8E-14	3.9%	1.6%	DFB	CB
AS-0613	Perimeter	MSE01	PE13	50	7/12/22 4:00	7/12/22 15:32	692	3.5E+07	E	07/18/22	1	cpm	0.15	3.25	0.9	6.2	1.2E-14	8.1E-14	1.4%	1.3%	DFB	CB
AS-0614	Perimeter	MSE02	PE14	60	7/12/22 4:05	7/12/22 15:37	692	4.2E+07	E	07/18/22	1	cpm	0.25	3.55	1.6	7.1	1.7E-14	7.7E-14	1.9%	1.3%	DFB	CB
AS-0615	Perimeter	MSE01	PE13	50	7/13/22 4:10	7/13/22 15:25	675	3.4E+07	E	07/18/22	1	cpm	0.05	3.00	0.3	5.5	4.2E-15	7.3E-14	0.5%	1.2%	DFB	CB
AS-0616	Perimeter	MSE02	PE14	60	7/13/22 4:05	7/13/22 15:37	692	4.2E+07	E	07/18/22	1	cpm	0.15	4.45	0.9	9.8	1.0E-14	1.1E-13	1.1%	1.8%	DFB	CB
AS-0617	Perimeter	MSE01	PE13	50	7/14/22 4:00	7/14/22 15:16	676	3.4E+07	E	07/18/22	1	cpm	0.30	4.60	1.9	10.3	2.5E-14	1.4E-13	2.8%	2.3%	DFB	CB
AS-0618	Perimeter	MSE02	PE14	60	7/14/22 4:10	7/14/22 15:20	670	4.0E+07	E	07/18/22	1	cpm	0.15	4.85	0.9	11.1	1.1E-14	1.2E-13	1.2%	2.1%	DFB	CB
AS-0619	Perimeter	MSE01	PE13	50	7/18/22 6:50	7/18/22 15:36	526	2.6E+07	E	07/25/22	1	cpm	0.05	3.50	0.3	7.0	5.4E-15	1.2E-13	0.6%	2.0%	BCS	CB
AS-0620	Perimeter	MSE02	PE14	50	7/18/22 6:53	7/18/22 15:44	531	2.7E+07	E	07/25/22	1	cpm	0.35	4.40	2.2	9.7	3.7E-14	1.6E-13	4.1%	2.7%	BCS	CB
AS-0621	Perimeter	MSE01	PE13	50	7/19/22 4:35	7/19/22 15:27	652	3.3E+07	E	07/25/22	1	cpm	0.05	4.55	0.3	10.2	4.3E-15	1.4E-13	0.5%	2.3%	BCS	CB
AS-0622	Perimeter	MSE02	PE14	50	7/19/22 4:35	7/19/22 15:28	653	3.3E+07	E	07/25/22	1	cpm	0.15	4.35	0.9	9.5	1.3E-14	1.3E-13	1.4%	2.2%	BCS	CB
AS-0623	Perimeter	MSE01	PE13	50	7/20/22 4:10	7/20/22 15:32	682	3.4E+07	E	07/25/22	1	cpm	0.20	3.55	1.3	7.1	1.7E-14	9.4E-14	1.8%	1.6%	BCS	CB
AS-0624	Perimeter	MSE02	PE14	50	7/20/22 4:14	7/20/22 15:36	682	3.4E+07	E	07/25/22	1	cpm	0.30	3.75	1.9	7.7	2.5E-14	1.0E-13	2.8%	1.7%	BCS	CB
AS-0625	Perimeter	MSE01	PE13	50	7/21/22 4:15	7/21/22 14:52	637	3.2E+07	E	07/25/22	1	cpm	0.15	3.60	0.9	7.3	1.3E-14	1.0E-13	1.5%	1.7%	BCS	CB
AS-0626	Perimeter	MSE02	PE14	50	7/21/22 4:10	7/21/22 14:59	649	3.2E+07	E	07/25/22	1	cpm	0.20	3.25	1.3	6.2	1.7E-14	8.6E-14	1.9%	1.4%	BCS	CB
AS-0627	Perimeter	MSE01	PE13	50	7/25/22 7:00	7/25/22 15:26	506	2.5E+07	E	08/01/22	1	cpm	0.20	3.70	1.3	7.6	2.2E-14	1.3E-13	2.5%	2.2%	BCS	CB
AS-0628	Perimeter	MSE02	PE14	50	7/25/22 6:45	7/25/22 15:32	527	2.6E+07	E	08/01/22	1	cpm	0.25	4.50	1.6	10.0	2.7E-14	1.7E-13	3.0%	2.8%	BCS	CB
AS-0629	Perimeter	MSE01	PE13	50	7/26/22 3:47	7/26/22 15:17	690	3.5E+07	E	08/01/22	1	cpm	0.10	4.80	0.6	10.9	8.2E-15	1.4E-13	0.9%	2.4%	BCS	CB
AS-0630	Perimeter	MSE02	PE14	50	7/26/22 3:40	7/26/22 15:26	706	3.5E+07	E	08/01/22	1	cpm	0.35	4.75	2.2	10.8	2.8E-14	1.4E-13	3.1%	2.3%	BCS	CB
AS-0631	Perimeter	MSE01	PE13	50	7/27/22 6:40	7/27/22 15:34	534	2.7E+07	E	08/01/22	1	cpm	0.35	5.10	2.2	11.8	3.7E-14	2.0E-13	4.1%	3.3%	BCS	CB
AS-0632	Perimeter	MSE02	PE14	50	7/27/22 6:35	7/27/22 14:41	486	2.4E+07	E	08/01/22	1	cpm	0.10	4.70	0.6	10.6	1.2E-14	2.0E-13	1.3%	3.3%	BCS	CB
AS-0633	Perimeter	MSE01	PE13	50	7/28/22 3:27	7/28/22 14:25	658	3.3E+07	E	08/01/22	1	cpm	0.10	3.50	0.6	7.0	8.6E-15	9.5E-14	1.0%	1.6%	BCS	CB
AS-0634	Perimeter	MSE02	PE14	50	7/28/22 3:33	7/28/22 14:31	658	3.3E+07	E	08/01/22	1	cpm	0.10	4.15	0.6	8.9	8.6E-15	1.2E-13	1.0%	2.0%	BCS	CB

ATTACHMENT 7

LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 22070716



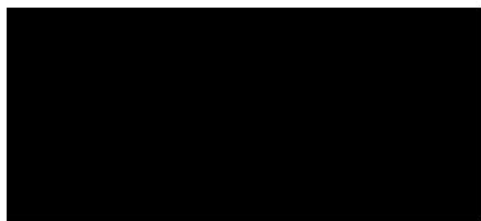
10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 4
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 07/11/2022 07:37
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
MSE01-070522	7/5/2022 15:15	Cassette	22070716.01
MSE02-070522	7/5/2022 15:27	Cassette	22070716.02
MSE01-070622	7/6/2022 15:32	Cassette	22070716.03
MSE02-070622	7/6/2022 15:40	Cassette	22070716.04



Analyst: [REDACTED]



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ab-q210-0321

7/18/2022



**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 7/18/2022

Job ID : 22070716
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
22070716.01	MSE01-070522	07/05/2022	Area	2			506	1012	100	11.5	14.650	0.006		07/15/22	█
22070716.02	MSE02-070522	07/05/2022	Area	2			535	1070	100	8.5	10.828	0.004		07/15/22	█
22070716.03	MSE01-070622	07/06/2022	Area	2			502	1004	100	21.5	27.389	0.011		07/15/22	█
22070716.04	MSE02-070622	07/06/2022	Area	2			522	1044	100	2	2.548	< 0.003		07/15/22	█

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 : 22070716	Date Received : 07/11/2022	Time Received : 7:37AM	
Client Name : GES - ASRC Industrial			
Temperature : 20.3°C	Sample pH : N/A		
Thermometer ID : IR3	pH Paper ID : N/A		
Perservative :			
	Yes	No	N/A
Check Points			
1. Cooler Seal present and signed.	X		
2. Sample(s) in a cooler.		X	
3. If yes, ice in cooler.			X
4. Sample(s) received with chain-of-custody.	X		
5. C-O-C signed and dated.	X		
6. Sample(s) received with signed sample custody seal.		X	
7. Sample containers arrived intact. (If No comment)	X		
8. Matrix:	Water	Soil	Liquid
	Sludge	Solid	Cassette
	Tube	Bulk	Badge
	Food	Other	
9. Samples were received in appropriate container(s)	X		
10. Sample(s) were received with Proper preservative			X
11. All samples were tagged or labeled.	X		
12. Sample ID labels match C-O-C ID's.	X		
13. Bottle count on C-O-C matches bottles found.	X		
14. Sample volume is sufficient for analyses requested.	X		
15. Samples were received with in the hold time.	X		
16. VOA vials completely filled.			X
17. Sample accepted.	X		
18. Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. ~TN

Received by : ██████████

Check in by/date : ██████████ 07/11/2022

ab-s005-0321



07/11/2022 GES - ASRC Industrial ACH

Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400
 Project Manager: [Redacted]
 Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: AGU Labs 7/07/2022
 Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
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:		
							Filter			
MSE01-070522	01A	7/05/2022	1515	NA	1	AA	X			506
MSE02-070522	02A	7/05/2022	1527	NA	1	AA	X			535
MSE01-070622	03A	7/06/2022	1532	NA	1	AA	X			502
MSE02-070622	04A	7/06/2022	1540	NA	1	AA	X			522

Sampled By: [Redacted]
 Signature: [Redacted]
 Special Instructions: None
 Send Results to: [Redacted]
 Turnaround Time: Standard

Sampler: [Redacted]
 Courier/Airbill No.: FedEx/ 7773 1684 8243
 Relinquished By/Affiliation: [Redacted] Date: 7/2/22 Time: 1600
 Received By/ Affiliation: [Redacted] Date: 7/7/22 Time: 1600
[Redacted] Date: 7/11/22 Time: 0731

20.3⁶⁰ IR3 JN

Laboratory Analysis Report

Job ID : 22071422



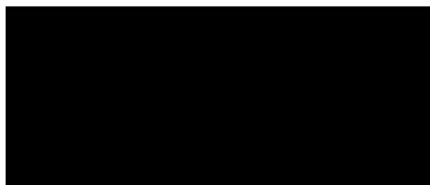
10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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 : 07/15/2022 15:21
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
MSE01-070722	7/7/2022 14:32	Cassette	22071422.01
MSE02-070722	7/7/2022 14:40	Cassette	22071422.02
MSE01-071122	7/11/2022 16:09	Cassette	22071422.03
MSE02-071122	7/11/2022 16:02	Cassette	22071422.04
MSE01-071222	7/12/2022 15:44	Cassette	22071422.05
MSE02-071222	7/12/2022 15:50	Cassette	22071422.06
MSE02-071322	7/13/2022 15:33	Cassette	22071422.08



Analyst: [REDACTED]



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ab-q210-0321

8/11/2022



**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 8/11/2022

Job ID : 22071422
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
22071422.01	MSE01-070722	07/07/2022	Area	2			441	882	100	9.5	12.102	0.005		07/26/22	[REDACTED]
22071422.02	MSE02-070722	07/07/2022	Area	2			463	926	100	9.5	12.102	0.005		07/26/22	[REDACTED]
22071422.03	MSE01-071122	07/11/2022	Area	2			549	1098	100	10	12.739	0.004		07/26/22	[REDACTED]
22071422.04	MSE02-071122	07/11/2022	Area	2			542	1084	100	9	11.465	0.004		07/26/22	[REDACTED]
22071422.05	MSE01-071222	07/12/2022	Area	2			516	1032	100	13.0	16.561	0.006		07/26/22	[REDACTED]
22071422.06	MSE02-071222	07/12/2022	Area	2			538	1076	100	7.5	9.554	0.003		07/26/22	[REDACTED]
22071422.08	MSE02-071322	07/13/2022	Area	2			503	1006	100	5.0	6.369	< 0.003		07/26/22	[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 : 22071422	Date Received : 07/15/2022	Time Received : 3:21PM	
Client Name : GES - ASRC Industrial			
Temperature : 21.3°C	Sample pH : N/A		
Thermometer ID : IR3	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"/> <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 by : ██████████

Check in by/date : ██████████/18/2022

ab-s005-0321

Event ID: Air Monitoring 22071422

COC# KT071422ASB



Chain-Of-Custody

Project Name and Number: HPPS Parcel E Phase II 1310000400
Project Manager: [Redacted]
Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: A&B Labs
Address: 10100 East Fwy Ste. 100
Houston TX 77029

Contact Name: [Redacted]
Page: 1 of 1
Date: 7/14/2022

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:		
MSE01-070722	7/07/2022	1432	NA	NA	1	AA	X	None	441	01A
MSE02-070722	7/07/2022	1440	NA	NA	1	AA	X	None	483	02A
MSE01-071122	7/11/2022	1609	NA	NA	1	AA	X	None	549	03A
MSE02-071122	7/11/2022	1602	NA	NA	1	AA	X	None	542	04A
MSE01-071222	7/12/2022	1544	NA	NA	1	AA	X	None	518	05A
MSE02-071222	7/12/2022	1550	NA	NA	1	AA	X	None	598	06A
MSE01-071322	7/13/2022	1541	NA	NA	1	AA	X	None	524	07A
MSE02-071322	7/13/2022	1533	NA	NA	1	AA	X	None	503	08A

Sampled By: [Redacted]
Signature: [Redacted]
Special Instruction: [Redacted]

Sampler: [Redacted]
Relinquished By/Affiliation: [Redacted]
Date: 7/14/2022
Time: 15:21

Courier/Receipt No.: FedEx 7773 6729
Received By/Affiliation: [Redacted]
Date: 7/14/2022
Time: 15:21

21.3°C
IE3 CA

ORIGIN ID: JCCA (925) 250-6097

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 14 JUL 22
ACT WGT: 1.00 LB
CAD: 254128867/NET 4490
BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060

REF: .01000.400.00.18.04

PO:

DEPT:

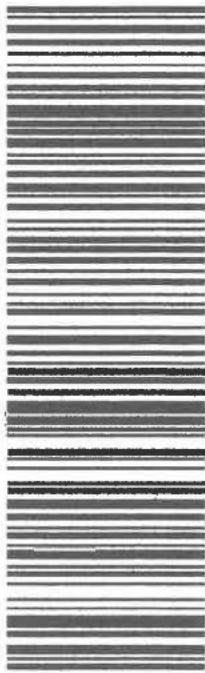


TRK# 7773 6729 1969
0201

FRI - 15 JUL 4:30P
STANDARD OVERNIGHT

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TX-US
IAH



591.J2QA92/FE4A

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Laboratory Analysis Report

Job ID : 22071880



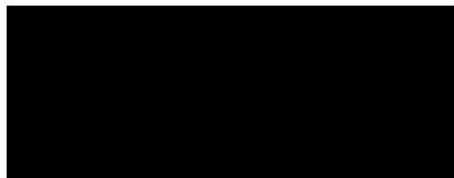
10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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 : 07/20/2022 15:55
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
MSE01-071322	7/13/2022 15:05	Cassette	22071880.01



Analyst: [REDACTED]



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ab-q210-0321

7/27/2022



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 7/27/2022

Job ID : 22071880
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
22071880.01	MSE01-071322	07/13/2022	Area	2			420	840	100	4.5	5.732	< 0.003		07/27/22	[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 : 22071880	Date Received : 07/20/2022	Time Received : 3:55PM	
Client Name : GES - ASRC Industrial			
Temperature : 23.0°C	Sample pH : NA		
Thermometer ID : IR3	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. ~EV 7/21/2022

Received by : ██████████

Check in by/date : ██████████ / 07/21/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 7/15/22
 Project Manager: [Redacted] (925)250-8027 Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029 Phone: 713-453-6060

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Special Instructions/Comments
							Asbestos	Preservative:	
MSE01-071322	7/13/22	1505	NA	NA	1	AA	None	Filter	FLOW RATE = 2 L/MIN TOTAL TIME (MIN) 420

Job ID: 22071880



07/20/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEX/ 7774 1827 9149

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 7/19/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 7/19/22 Time: 1600

Special Instructions: None Fedex 7/20/22 15:55 [Redacted] 7/20/22 15:55

Send Results to: [Redacted]

Turnaround Time: Standard

ORIGIN ID: ICCA (925) 250-6097

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 19JUL22
ACTWGT: 1.00 LB
CAD: 254128867/INNET4490

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060

REF: J31000.400.00.18.04

INV:
PO

DEPT:



581.020/92/F44

WED - 20 JUL 4:30P

STANDARD OVERNIGHT

TRK# 7774 1826 1240
0201

77029

TX-US IAH

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Laboratory Analysis Report

Job ID : 22071886



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 : 07/20/2022 15:55
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
MSE01-071422	7/14/2022 15:19	Cassette	22071886.01
MSE02-071422	7/14/2022 15:27	Cassette	22071886.02
MSE01-071822	7/18/2022 15:36	Cassette	22071886.03
MSE02-071822	7/18/2022 15:45	Cassette	22071886.04

[REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

7/27/2022



**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 7/27/2022

Job ID : 22071886
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
22071886.01	MSE01-071422	07/14/2022	Area	2			500	1000	100	8.0	10.191	0.004		07/27/22	█
22071886.02	MSE02-071422	07/14/2022	Area	2			503	1006	100	3	3.822	< 0.003		07/27/22	█
22071886.03	MSE01-071822	07/18/2022	Area	2			531	1062	100	5.5	7.006	0.003		07/27/22	█
22071886.04	MSE02-071822	07/18/2022	Area	2			556	1112	100	6	7.643	0.003		07/27/22	█

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 : 22071886	Date Received : 07/20/2022	Time Received : 3:55PM	
Client Name : GES - ASRC Industrial			
Temperature : 23.0°C	Sample pH : NA		
Thermometer ID : IR3	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. ~EV 7/21/2022

Received by : ██████████

Check in by/date : ██████████ 07/21/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 7/19/2022
 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: 22071886



07/20/2022 GES - ASRC Industrial ACH

Analysis:

OIA
OZA
03A
O4A

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:		
MSE01-071422	7/14/2022	1519	NA	NA	1	AA	X	None		500
MSE02-071422	7/14/2022	1527	NA	NA	1	AA	X	None		503
MSE01-071822	7/18/2022	1536	NA	NA	1	AA	X	Filter		531
MSE02-071822	7/18/2022	1545	NA	NA	1	AA	X	Filter		556

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7774 1826 1240				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions:	<u>[Redacted]</u>	<u>7/19/22 16:00</u>	<u>7/20/22 15:55</u>	<u>[Redacted]</u>	<u>7/19/22 16:00</u>	<u>7/20/22 15:55</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

23.0^u IR3 *[Signature]*

ORIGIN ID: JCCA (925) 250-6097

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 19JUL22
ACTWGT: 1.00 LB
CAD: 254128867/NET4490

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

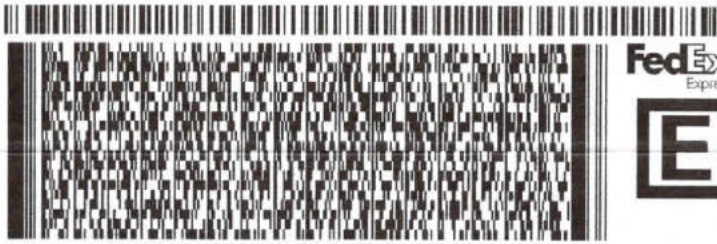
(713) 453-6060

REF: J31000400001804

INV.
PO

DEPT

581.020A92/FE4A



WED - 20 JUL 4:30P

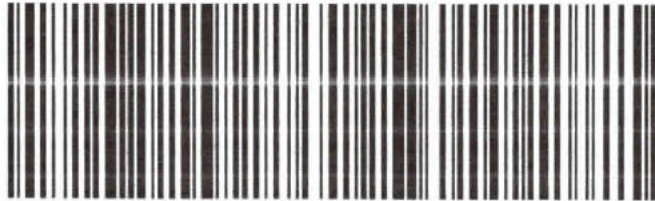
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7774 1826 1240

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Laboratory Analysis Report

Job ID : 22072179



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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 : 07/22/2022 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
MSE01-071922	7/19/2022 15:25	Cassette	22072179.01
MSE02-071922	7/19/2022 15:15	Cassette	22072179.02
MSE01-072022	7/20/2022 15:49	Cassette	22072179.03
MSE02-072022	7/20/2022 15:35	Cassette	22072179.04

[REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

7/29/2022



**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 7/29/2022

Job ID : 22072179
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
22072179.01	MSE01-071922	07/19/2022	Area	2			534	1068	100	4.5	5.732	< 0.003		07/27/22	█
22072179.02	MSE02-071922	07/19/2022	Area	2			530	1060	100	2.5	3.185	< 0.003		07/27/22	█
22072179.03	MSE01-072022	07/20/2022	Area	2			553	1106	100	6.0	7.643	0.003		07/27/22	█
22072179.04	MSE02-072022	07/20/2022	Area	2			548	1096	100	3.5	4.459	< 0.002		07/27/22	█

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 : 22072179	Date Received : 07/22/2022	Time Received : 3:47PM	
Client Name : GES - ASRC Industrial			
Temperature : 22.1°C	Sample pH : NA		
Thermometer ID : IR3	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:	<input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other		
9. Samples were received in appropriate container(s)	X		
10. Sample(s) were received with Proper preservative			X
11. All samples were tagged or labeled.	X		
12. Sample ID labels match C-O-C ID's.	X		
13. Bottle count on C-O-C matches bottles found.	X		
14. Sample volume is sufficient for analyses requested.	X		
15. Samples were received with in the hold time.	X		
16. VOA vials completely filled.			X
17. Sample accepted.	X		
18. Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Received samples in black cassettes. ~EV 7/25/2022

Received by : ██████████

Check in by/date : ██████████ / 07/25/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 7/21/2022
 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: 22072179



07/22/2022 GES - ASRC Industrial ACP

Analysis:

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			
01A MSE01-071922	7/19/2022	1525	NA	NA	1	AA	X			534
02A MSE02-071922	7/19/2022	1515	NA	NA	1	AA	X			530
03A MSE01-072022	7/20/2022	1549	NA	NA	1	AA	X			553
04A MSE02-072022	7/20/2022	1535	NA	NA	1	AA	X			548

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7774 3882 8341

Signature: [Redacted] Relinquished By/ Affiliation: [Redacted] Date: 7/21/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 7/21/22 Time: 1600

Special Instructions: None [Redacted] 7/22/22 15:47 [Redacted] 7/22/22 15:47

Send Results to: [Redacted]

Turnaround Time: Standard

22.1°C IR3 [Signature]

ORIGIN ID: JCCA (925) 250-6097

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

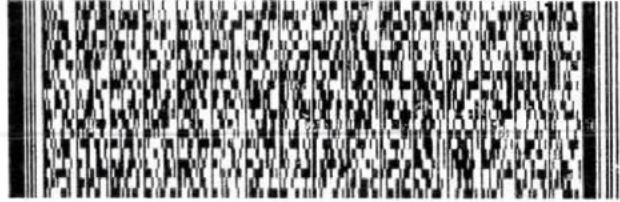
HOUSTON TX 77029

(713) 453-6760

REF JB1000400001804

INV

DEPT



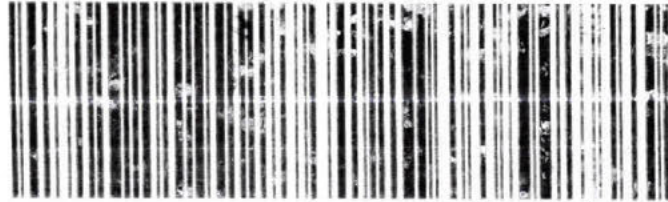
591 J20492FE4A

FRI - 22 JUL 4:30P
STANDARD OVERNIGHT

TRK# 7774 3882 8341
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 Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

IRM

Calder



Laboratory Analysis Report

Job ID : 22072601



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 : 07/28/2022 08:55
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
MSE01-072122	7/21/2022 14:56	Cassette	22072601.01
MSE02-072122	7/21/2022 15:04	Cassette	22072601.02
MSE01-072522	7/25/2022 15:03	Cassette	22072601.03
MSE02-072522	7/25/2022 15:11	Cassette	22072601.04

[REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

8/4/2022



**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 8/4/2022

Job ID : 22072601
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
22072601.01	MSE01-072122	07/21/2022	Area	2			497	994	100	1	1.274	< 0.003		08/04/22	█
22072601.02	MSE02-072122	07/21/2022	Area	2			513	1026	100	2.5	3.185	< 0.003		08/04/22	█
22072601.03	MSE01-072522	07/25/2022	Area	2			481	962	100	1	1.274	< 0.003		08/04/22	█
22072601.04	MSE02-072522	07/25/2022	Area	2			528	1056	100	4	5.096	< 0.003		08/04/22	█

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



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 7/26/2022
 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:		
							Filter			
01A MSE01-072122	7/21/2022	1456	NA	NA	1	AA	X			497
02A MSE02-072122	7/21/2022	1504	NA	NA	1	AA	X			513
03A MSE01-072522	7/25/2022	1503	NA	NA	1	AA	X			481
04A MSE02-072522	7/25/2022	1511	NA	NA	1	AA	X			528

Job ID: 22072601



07/28/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7774 7617 3162				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[Redacted]</u>	7/24/22	1600	<u>[Redacted]</u>	7/24/22	1600
		28-22	8:55		7-28-22	8:55
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

Page 4 of 5 TEMP: 21.2°C TRY

ORIGIN ID: JCCA (925) 250-6097

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 26JUL22
ACTWGT: 1.00 LB
CAD: 254128867/NET4490

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

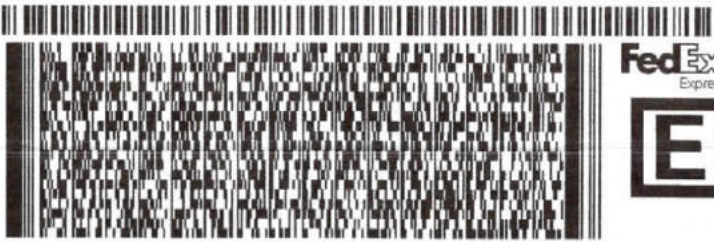
(713) 453-6060

REF: J31000.400 00 18 04

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PO

DEPT

581120A92FE4A



WED - 27 JUL 4:30P

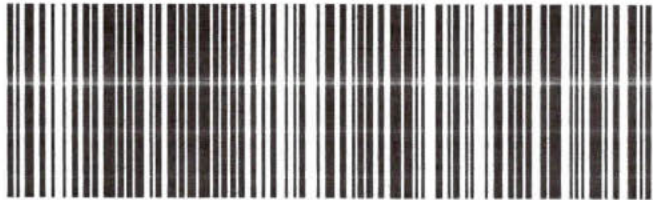
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TRK#
0201

7774 7617 3162

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TX-US IAH



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Laboratory Analysis Report

Job ID : 22072816



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 : 07/29/2022 15:25
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
MSE01-072622	7/26/2022 15:27	Cassette	22072816.01
MSE02-072622	7/26/2022 15:34	Cassette	22072816.02
MSE01-072722	7/27/2022 14:43	Cassette	22072816.03
MSE02-072722	7/27/2022 14:47	Cassette	22072816.04



Analyst: [REDACTED]



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ab-q210-0321

8/10/2022



**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 8/10/2022

Job ID : 22072816
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
22072816.01	MSE01-072622	07/26/2022	Area	2			520	1040	100	3.5	4.459	< 0.003		08/10/22	█
22072816.02	MSE02-072622	07/26/2022	Area	2			537	1074	100	3	3.822	< 0.003		08/10/22	█
22072816.03	MSE01-072722	07/27/2022	Area	2			473	946	100	3	3.822	< 0.003		08/10/22	█
22072816.04	MSE02-072722	07/27/2022	Area	2			485	970	100	2	2.548	< 0.003		08/10/22	█

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 : 22072816	Date Received : 07/29/2022	Time Received : 3:25PM	
Client Name : GES - ASRC Industrial			
Temperature : 25.6°C	Sample pH : NA		
Thermometer ID : IR4	pH Paper ID : NA		
Perservative :			
Check Points	Yes	No	N/A
1. Cooler Seal present and signed.	X		
2. Sample(s) in a cooler.		X	
3. If yes, ice in cooler.			X
4. Sample(s) received with chain-of-custody.	X		
5. C-O-C signed and dated.	X		
6. Sample(s) received with signed sample custody seal.		X	
7. Sample containers arrived intact. (If No comment)	X		
8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other			
<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 custody seal. 07/29/22

Received by :

Check in by/date : 07/29/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 7/28/2022
 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: 22072816



07/29/2022 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:		
MSE01-072622	7/26/2022	1527	NA	NA	1	AA	X	None		520
MSE02-072622	7/26/2022	1534	NA	NA	1	AA	X	None		537
MSE01-072722	7/27/2022	1443	NA	NA	1	AA	X	Filter		473
MSE02-072722	7/27/2022	1447	NA	NA	1	AA	X	Filter		485

A [Redacted] 7-28-22

*01A
02A
03A
04A*

Sampled By: <u>[Redacted]</u>	Sampler: _____	Courier/Airbill No.: FedEx/ 7775 0293 8612			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date: <u>7-28-22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>[Redacted]</u>	Date: <u>7-28-22</u>
Special Instructions: _____					Time: <u>1525</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					

ORIGIN ID: JCCA (925) 250-6097

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 28 JUL 22
ACTWGT: 1.00 LB
CAD: 254128867/NET4490

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

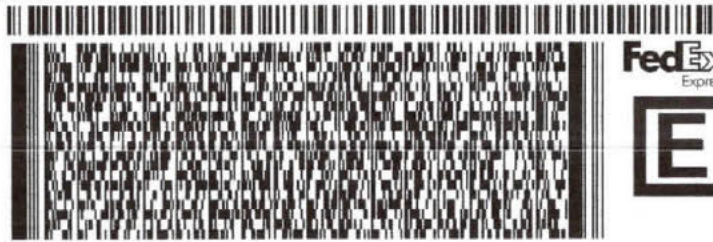
(713) 453-6060

REF J31000-400 00 18 04

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PO

DEPT

581120492/FE4A



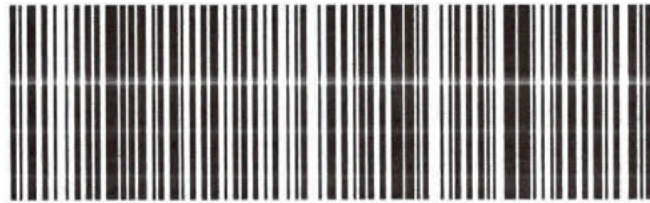
FRI - 29 JUL 4:30P

STANDARD OVERNIGHT

TRK# 7775 0293 8612
0201

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TX-US IAH



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Environment Testing
TestAmerica

1495338
eurofins

Environment Testing
TestAmerica
1495338
Current FedEx
Test, profit,
\$100 or the
\$100, e.g. jewelry,
strict time limits, see current



Custod

SIGNATURE
DATE

eurofins

1495338

Environment Testing
TestAmerica

Laboratory Analysis Report

Job ID : 22080635



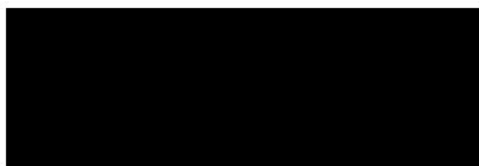
10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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 : 08/03/2022 16:19
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
MSE01-072822	7/28/2022 14:35	Cassette	22080635.01
MSE02-072822	7/28/2022 14:28	Cassette	22080635.02
MSE01-080122	8/1/2022 15:58	Cassette	22080635.03
MSE02-080122	8/1/2022 15:53	Cassette	22080635.04



Analyst: [REDACTED]



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ab-q210-0321

8/10/2022



**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 8/10/2022

Job ID : 22080635
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
22080635.01	MSE01-072822	07/28/2022	Area	2			475	950	100	1.5	1.911	< 0.003		08/10/22	█
22080635.02	MSE02-072822	07/28/2022	Area	2			475	950	100	0	0.000	< 0.003		08/10/22	█
22080635.03	MSE01-080122	08/01/2022	Area	2			520	1040	100	2.5	3.185	< 0.003		08/10/22	█
22080635.04	MSE02-080122	08/01/2022	Area	2			544	1088	100	6	7.643	0.003		08/10/22	█

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 : 22080635	Date Received : 08/03/2022	Time Received : 4:19PM	
Client Name : GES - ASRC Industrial			
Temperature : 20.0°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. Black Cassettes. ~ 08/05/22

Received by : ██████████

Check in by/date : ██████████ / 08/05/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 8/02/2022
 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:		
							Asbestos	None		
							Container Type:	Filter		
<i>01A</i> MSE01-072822	7/28/2022	1435	NA	NA	1	AA	X			475
<i>02A</i> MSE02-072822	7/28/2022	1428	NA	NA	1	AA	X			475
<i>03A</i> MSE01-080122	8/01/2022	1558	NA	NA	1	AA	X			520
<i>04A</i> MSE02-080122	8/01/2022	1553	NA	NA	1	AA	X			544

Job ID: 22080635



08/03/2022 GES - ASRC Industrial ACH

A 8/2/22 14:58

N

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No: FedEx/ 7775 5125 2979			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date: <u>8/2/22</u>	Time: <u>14:00</u>	Received By/ Affiliation: <u>[Redacted]</u>	Date: <u>8/2/22</u> Time: <u>16:00</u>
Special Instructions: _____					<u>8/3/22 16:19</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					



August 05, 2022

Dear Customer,

The following is the proof-of-delivery for tracking number: 777551252979

Delivery Information:

Status:	Delivered	Delivered To:	Receptionist/Front Desk
Signed for by:	[REDACTED]	Delivery Location:	
Service type:	FedEx Standard Overnight		
Special Handling:	Deliver Weekday		HOUSTON, TX,
		Delivery date:	Aug 3, 2022 16:19

Shipping Information:

Tracking number:	777551252979	Ship Date:	Aug 2, 2022
		Weight:	1.0 LB/0.45 KG
Recipient:		Shipper:	
HOUSTON, TX, US,		SAN FRANCISCO, CA, US,	

Reference J31000.400 00.18.04

Signature image is available. In order to view image and detailed information, the shipper or payor account number of the shipment must be provided.

Thank you for choosing FedEx

ANALYTICAL REPORT

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

Laboratory Job ID: 320-89853-1
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:
7/18/2022 4:04:03 PM

[REDACTED], Project Manager I
(916)374-4414
[REDACTED]

LINKS

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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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	17

Definitions/Glossary

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

Job ID: 320-89853-1

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: 320-89853-1

Job ID: 320-89853-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-89853-1

Comments

No additional comments.

Receipt

The samples were received on 7/8/2022 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 20.6° C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): Samples 1-8, all containers have IDs beginning as GES_ not GILBANE as listed on COC. Samples logged in and labeled according to the revised COC. GES_PM061322-20 (320-89853-1), GES_TSP061322-20 (320-89853-2), GES_PM061322-21 (320-89853-3), GES_TSP061322-21 (320-89853-4), GES_PM061322-22 (320-89853-5), GES_TSP061322-22 (320-89853-6), GES_PM061322-23 (320-89853-7) and GES_TSP061322-23 (320-89853-8).

A revised COC was provided on July 11 changing the IDs to match the container labels. Copies of both COCs are included in the report.

Metals

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



Detection Summary

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

Job ID: 320-89853-1

Client Sample ID: GES_PM061322-20

Lab Sample ID: 320-89853-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.012		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.030		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.042	B	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	41		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-20

Lab Sample ID: 320-89853-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	74.5418		0.2970	0.2970	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-21

Lab Sample ID: 320-89853-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012		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	0.0025	B	0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.3		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-21

Lab Sample ID: 320-89853-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	11.0620		0.2836	0.2836	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-22

Lab Sample ID: 320-89853-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.033		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.069		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.089	B	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	51		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-22

Lab Sample ID: 320-89853-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	68.7973		0.2960	0.2960	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-23

Lab Sample ID: 320-89853-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0073		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025	B	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	3.7		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-23

Lab Sample ID: 320-89853-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	10.1578		0.2970	0.2970	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: 320-89853-1

Client Sample ID: GES_PM061322-20

Lab Sample ID: 320-89853-1

Date Collected: 07/06/22 07:06

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.012		0.00069	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:43	1
Copper	0.030		0.0014	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:43	1
Manganese	0.042	B	0.00069	0.000096	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	41		0.29	0.29	ug/m3			07/11/22 14:00	1

Client Sample ID: GES_TSP061322-20

Lab Sample ID: 320-89853-2

Date Collected: 07/06/22 07:06

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	74.5418		0.2970	0.2970	ug/m3 (Air)			07/11/22 14:00	1

Client Sample ID: GES_PM061322-21

Lab Sample ID: 320-89853-3

Date Collected: 07/06/22 06:55

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012		0.00068	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:46	1
Copper	0.019		0.0014	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:46	1
Manganese	0.0025	B	0.00068	0.000095	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	5.3		0.28	0.28	ug/m3			07/11/22 14:00	1

Client Sample ID: GES_TSP061322-21

Lab Sample ID: 320-89853-4

Date Collected: 07/06/22 06:55

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	11.0620		0.2836	0.2836	ug/m3 (Air)			07/11/22 14:00	1

Client Sample ID: GES_PM061322-22

Lab Sample ID: 320-89853-5

Date Collected: 07/07/22 07:08

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.033		0.00069	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:50	1
Copper	0.069		0.0014	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:50	1
Manganese	0.089	B	0.00069	0.000096	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:50	1

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Client Sample Results

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

Job ID: 320-89853-1

Client Sample ID: GES_PM061322-22

Lab Sample ID: 320-89853-5

Date Collected: 07/07/22 07:08

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	51		0.29	0.29	ug/m3			07/11/22 14:00	1

Client Sample ID: GES_TSP061322-22

Lab Sample ID: 320-89853-6

Date Collected: 07/07/22 07:08

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	68.7973		0.2960	0.2960	ug/m3 (Air)			07/11/22 14:00	1

Client Sample ID: GES_PM061322-23

Lab Sample ID: 320-89853-7

Date Collected: 07/07/22 06:53

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012		0.00069	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:53	1
Copper	0.0073		0.0014	0.00010	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:53	1
Manganese	0.0025	B	0.00069	0.000097	ug/m3 (Air)		07/14/22 05:50	07/16/22 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	3.7		0.29	0.29	ug/m3			07/11/22 14:00	1

Client Sample ID: GES_TSP061322-23

Lab Sample ID: 320-89853-8

Date Collected: 07/07/22 06:53

Matrix: Air

Date Received: 07/08/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	10.1578		0.2970	0.2970	ug/m3 (Air)			07/11/22 14:00	1

QC Sample Results

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

Job ID: 320-89853-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-602845/1-B
Matrix: Air
Analysis Batch: 603673

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/14/22 05:50	07/16/22 21:06	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/14/22 05:50	07/16/22 21:06	1
Manganese	0.000331	J	0.0012	0.00017	ug/m3 (Air)		07/14/22 05:50	07/16/22 21:06	1

Lab Sample ID: LCS 320-602845/2-B
Matrix: Air
Analysis Batch: 603673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.239		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.234		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.248		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCSD 320-602845/3-B
Matrix: Air
Analysis Batch: 603673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602882

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	0	15
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110	2	15

QC Association Summary

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

Job ID: 320-89853-1

Metals

Pre Prep Batch: 602845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89853-1	GES_PM061322-20	Total/NA	Air	Filter to Air	
320-89853-3	GES_PM061322-21	Total/NA	Air	Filter to Air	
320-89853-5	GES_PM061322-22	Total/NA	Air	Filter to Air	
320-89853-7	GES_PM061322-23	Total/NA	Air	Filter to Air	
MB 320-602845/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-602845/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-602845/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 602882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89853-1	GES_PM061322-20	Total/NA	Air	3050B	602845
320-89853-3	GES_PM061322-21	Total/NA	Air	3050B	602845
320-89853-5	GES_PM061322-22	Total/NA	Air	3050B	602845
320-89853-7	GES_PM061322-23	Total/NA	Air	3050B	602845
MB 320-602845/1-B	Method Blank	Total/NA	Air	3050B	602845
LCS 320-602845/2-B	Lab Control Sample	Total/NA	Air	3050B	602845
LCSD 320-602845/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	602845

Analysis Batch: 603673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89853-1	GES_PM061322-20	Total/NA	Air	6020	602882
320-89853-3	GES_PM061322-21	Total/NA	Air	6020	602882
320-89853-5	GES_PM061322-22	Total/NA	Air	6020	602882
320-89853-7	GES_PM061322-23	Total/NA	Air	6020	602882
MB 320-602845/1-B	Method Blank	Total/NA	Air	6020	602882
LCS 320-602845/2-B	Lab Control Sample	Total/NA	Air	6020	602882
LCSD 320-602845/3-B	Lab Control Sample Dup	Total/NA	Air	6020	602882

General Chemistry

Pre Prep Batch: 602230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89853-2	GES_TSP061322-20	Total/NA	Air	Filter to Air	
320-89853-4	GES_TSP061322-21	Total/NA	Air	Filter to Air	
320-89853-6	GES_TSP061322-22	Total/NA	Air	Filter to Air	
320-89853-8	GES_TSP061322-23	Total/NA	Air	Filter to Air	

Analysis Batch: 603536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89853-1	GES_PM061322-20	Total/NA	Air	PM10	
320-89853-3	GES_PM061322-21	Total/NA	Air	PM10	
320-89853-5	GES_PM061322-22	Total/NA	Air	PM10	
320-89853-7	GES_PM061322-23	Total/NA	Air	PM10	

Analysis Batch: 603537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89853-2	GES_TSP061322-20	Total/NA	Air	40CFR50 App B	602230
320-89853-4	GES_TSP061322-21	Total/NA	Air	40CFR50 App B	602230
320-89853-6	GES_TSP061322-22	Total/NA	Air	40CFR50 App B	602230
320-89853-8	GES_TSP061322-23	Total/NA	Air	40CFR50 App B	602230

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-89853-1

Client Sample ID: GES_PM061322-20

Lab Sample ID: 320-89853-1

Date Collected: 07/06/22 07:06

Matrix: Air

Date Received: 07/08/22 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					602845	07/14/22 05:15	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	602882	07/14/22 05:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			603673	07/16/22 19:43	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0711 g	603536	07/11/22 14:00	JMD	TAL SAC

Client Sample ID: GES_TSP061322-20

Lab Sample ID: 320-89853-2

Date Collected: 07/06/22 07:06

Matrix: Air

Date Received: 07/08/22 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			603537	07/11/22 14:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

Client Sample ID: GES_PM061322-21

Lab Sample ID: 320-89853-3

Date Collected: 07/06/22 06:55

Matrix: Air

Date Received: 07/08/22 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					602845	07/14/22 05:15	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	602882	07/14/22 05:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			603673	07/16/22 19:46	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0093 g	603536	07/11/22 14:00	JMD	TAL SAC

Client Sample ID: GES_TSP061322-21

Lab Sample ID: 320-89853-4

Date Collected: 07/06/22 06:55

Matrix: Air

Date Received: 07/08/22 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			603537	07/11/22 14:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

Client Sample ID: GES_PM061322-22

Lab Sample ID: 320-89853-5

Date Collected: 07/07/22 07:08

Matrix: Air

Date Received: 07/08/22 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					602845	07/14/22 05:15	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	602882	07/14/22 05:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			603673	07/16/22 19:50	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0883 g	603536	07/11/22 14:00	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-89853-1

Client Sample ID: GES_TSP061322-22

Lab Sample ID: 320-89853-6

Date Collected: 07/07/22 07:08

Matrix: Air

Date Received: 07/08/22 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			603537	07/11/22 14:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

Client Sample ID: GES_PM061322-23

Lab Sample ID: 320-89853-7

Date Collected: 07/07/22 06:53

Matrix: Air

Date Received: 07/08/22 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					602845	07/14/22 05:15	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	602882	07/14/22 05:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			603673	07/16/22 19:53	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0065 g	603536	07/11/22 14:00	JMD	TAL SAC

Client Sample ID: GES_TSP061322-23

Lab Sample ID: 320-89853-8

Date Collected: 07/07/22 06:53

Matrix: Air

Date Received: 07/08/22 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			603537	07/11/22 14:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

Laboratory References:

TAL 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: 320-89853-1

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: 320-89853-1

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

- TAL 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: 320-89853-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-89853-1	GES_PM061322-20	Air	07/06/22 07:06	07/08/22 09:30
320-89853-2	GES_TSP061322-20	Air	07/06/22 07:06	07/08/22 09:30
320-89853-3	GES_PM061322-21	Air	07/06/22 06:55	07/08/22 09:30
320-89853-4	GES_TSP061322-21	Air	07/06/22 06:55	07/08/22 09:30
320-89853-5	GES_PM061322-22	Air	07/07/22 07:08	07/08/22 09:30
320-89853-6	GES_TSP061322-22	Air	07/07/22 07:08	07/08/22 09:30
320-89853-7	GES_PM061322-23	Air	07/07/22 06:53	07/08/22 09:30
320-89853-8	GES_TSP061322-23	Air	07/07/22 06:53	07/08/22 09:30

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT070722AIR



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

Code	Matrix
A	Air
Code	
1	Container/Preservative
1	1x 250-ml Plastic, 4 Degrees C
1	1x Envelope, None



Comments:

Equipment:

Event: Parcel E Phase 2 Air Monitoring													
Sample ID	Matrix	Date	Time	Sampl Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW620 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	07/06/2022	0706	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1748.17 (M3)
2	A	07/06/2022	0706	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1683.62 (M3)
3	A	07/06/2022	0655	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1761.32 (M3)
4	A	07/06/2022	0655	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1762.79 (M3)
5	A	07/07/2022	0708	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1744.91 (M3)
6	A	07/07/2022	0708	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1689.02 (M3)
7	A	07/07/2022	0653	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1739.53 (M3)
8	A	07/07/2022	0653	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1683.44 (M3)
9													
10													

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	7/7/22	1605	[Redacted]	7/7/22	1600	Shipping Date: 7/7/2022 FedEx 7773 1689 4849
				28/22	0950	Received by Laboratory: (Signature, Date, Time) & condition

GES_Navy_COC_Field
July 07, 2022

GES NAVY GILBANE SO 7.8.22

7/7/22



**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT070722AIR



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

Comments:
 Update "GILBANE" to "GES_" in sample IDs. KJ 7/11/2022

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-ml Plastic, 4 Degrees C
1	1x Envelope, None



Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Cooler	Sample		Comments
										Type	Depth (ft bgs)	
1	A	07/06/2022	0706	KT	CAIR - Air PM10	X	X	X	1	N1	0.00	VOLUME: 1748.17 (M3)
2	A	07/06/2022	0706	KT	N0500 - Air TSP	X	X	X	1	N1	0.00	VOLUME: 1683.62 (M3)
3	A	07/06/2022	0655	KT	CAIR - Air PM10	X	X	X	1	N1	0.00	VOLUME: 1761.32 (M3)
4	A	07/06/2022	0655	KT	N0500 - Air TSP	X	X	X	1	N1	0.00	VOLUME: 1762.79 (M3)
5	A	07/07/2022	0708	KT	CAIR - Air PM10	X	X	X	1	N1	0.00	VOLUME: 1744.91 (M3)
6	A	07/07/2022	0708	KT	N0500 - Air TSP	X	X	X	1	N1	0.00	VOLUME: 1689.02 (M3)
7	A	07/07/2022	0653	KT	CAIR - Air PM10	X	X	X	1	N1	0.00	VOLUME: 1739.53 (M3)
8	A	07/07/2022	0653	KT	N0500 - Air TSP	X	X	X	1	N1	0.00	VOLUME: 1683.44 (M3)
9												
10												

Turnaround Time: 5 days

Relinquished by: (Signature) [Redacted] Date: 7/7/22 Time: 1600

Received by: (Signature) [Redacted] Date: 7/8/22 Time: 0950

Shipping Date / Carrier / Airbill Number
 Shipping Date: 7/7/2022 | FedEx 7773 1689 4849

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

GES_Navy_COC_Field
 July 07, 2022

GES_Navy GILBANE SO 7.8.22



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-89853-1

Login Number: 89853

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: 320-90065-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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



Authorized for release by:
7/25/2022 1:34:55 PM



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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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
QC Sample Results	11
QC Association Summary	12
Lab Chronicle	14
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	23

Definitions/Glossary

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

Job ID: 320-90065-1

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: 320-90065-1

Job ID: 320-90065-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-90065-1

Comments

No additional comments.

Receipt

The samples were received on 7/15/2022 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 20.4° C.

Metals

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

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

Detection Summary

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

Job ID: 320-90065-1

Client Sample ID: GES_PM061322-24

Lab Sample ID: 320-90065-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.025		0.0022	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.067		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.032		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	35		0.93	0.93	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-24

Lab Sample ID: 320-90065-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	93.7251		0.9723	0.9723	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-25

Lab Sample ID: 320-90065-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.025		0.0042	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0044		0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.1		0.88	0.88	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-25

Lab Sample ID: 320-90065-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.0021		0.8785	0.8785	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-26

Lab Sample ID: 320-90065-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0054		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.020		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-26

Lab Sample ID: 320-90065-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.6596		0.2926	0.2926	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-27

Lab Sample ID: 320-90065-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0024		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.085		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0063		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-27

Lab Sample ID: 320-90065-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.2460		0.2921	0.2921	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-28

Lab Sample ID: 320-90065-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0053		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.021		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-90065-1

Client Sample ID: GES_PM061322-28 (Continued)

Lab Sample ID: 320-90065-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	19		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-28

Lab Sample ID: 320-90065-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.9002		0.2991	0.2991	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-29

Lab Sample ID: 320-90065-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.013		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0026		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.3		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-29

Lab Sample ID: 320-90065-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	11.3725		0.2815	0.2815	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-30

Lab Sample ID: 320-90065-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0077		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0095		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-30

Lab Sample ID: 320-90065-14

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.3515		0.2963	0.2963	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-31

Lab Sample ID: 320-90065-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012		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	0.0023		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: GES_TSP061322-31

Lab Sample ID: 320-90065-16

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	18.9397		0.2810	0.2810	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: 320-90065-1

Client Sample ID: GES_PM061322-24

Lab Sample ID: 320-90065-1

Date Collected: 07/07/22 14:35

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.025		0.0022	0.00034	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:04	1
Copper	0.067		0.0045	0.00034	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:04	1
Manganese	0.032		0.0022	0.00031	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35		0.93	0.93	ug/m3			07/19/22 14:30	1

Client Sample ID: GES_TSP061322-24

Lab Sample ID: 320-90065-2

Date Collected: 07/07/22 14:35

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	93.7251		0.9723	0.9723	ug/m3 (Air)			07/19/22 14:30	1

Client Sample ID: GES_PM061322-25

Lab Sample ID: 320-90065-3

Date Collected: 07/07/22 14:40

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.0021	0.00032	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:13	1
Copper	0.025		0.0042	0.00032	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:13	1
Manganese	0.0044		0.0021	0.00030	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	5.1		0.88	0.88	ug/m3			07/19/22 14:30	1

Client Sample ID: GES_TSP061322-25

Lab Sample ID: 320-90065-4

Date Collected: 07/07/22 14:40

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.0021		0.8785	0.8785	ug/m3 (Air)			07/19/22 14:30	1

Client Sample ID: GES_PM061322-26

Lab Sample ID: 320-90065-5

Date Collected: 07/12/22 07:00

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054		0.00069	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:16	1
Copper	0.020		0.0014	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:16	1
Manganese	0.013		0.00069	0.000096	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:16	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90065-1

Client Sample ID: GES_PM061322-26

Lab Sample ID: 320-90065-5

Date Collected: 07/12/22 07:00

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.29	0.29	ug/m3			07/19/22 14:30	1

Client Sample ID: GES_TSP061322-26

Lab Sample ID: 320-90065-6

Date Collected: 07/12/22 07:00

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.6596		0.2926	0.2926	ug/m3 (Air)			07/19/22 14:30	1

Client Sample ID: GES_PM061322-27

Lab Sample ID: 320-90065-7

Date Collected: 07/12/22 06:46

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024		0.00070	0.00011	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:26	1
Copper	0.085		0.0014	0.00011	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:26	1
Manganese	0.0063		0.00070	0.000098	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.29	0.29	ug/m3			07/19/22 14:30	1

Client Sample ID: GES_TSP061322-27

Lab Sample ID: 320-90065-8

Date Collected: 07/12/22 06:46

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.2460		0.2921	0.2921	ug/m3 (Air)			07/19/22 14:30	1

Client Sample ID: GES_PM061322-28

Lab Sample ID: 320-90065-9

Date Collected: 07/13/22 06:52

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0053		0.00069	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:29	1
Copper	0.021		0.0014	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:29	1
Manganese	0.012		0.00069	0.000097	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.29	0.29	ug/m3			07/19/22 14:30	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90065-1

Client Sample ID: GES_TSP061322-28

Lab Sample ID: 320-90065-10

Date Collected: 07/13/22 06:52

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.9002		0.2991	0.2991	ug/m3 (Air)			07/19/22 14:30	1

Client Sample ID: GES_PM061322-29

Lab Sample ID: 320-90065-11

Date Collected: 07/13/22 07:10

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012		0.00067	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:33	1
Copper	0.013		0.0013	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:33	1
Manganese	0.0026		0.00067	0.000094	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	5.3		0.28	0.28	ug/m3			07/19/22 14:30	1

Client Sample ID: GES_TSP061322-29

Lab Sample ID: 320-90065-12

Date Collected: 07/13/22 07:10

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	11.3725		0.2815	0.2815	ug/m3 (Air)			07/19/22 14:30	1

Client Sample ID: GES_PM061322-30

Lab Sample ID: 320-90065-13

Date Collected: 07/14/22 06:47

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0077		0.00069	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:36	1
Copper	0.024		0.0014	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:36	1
Manganese	0.0095		0.00069	0.000097	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.29	0.29	ug/m3			07/19/22 14:30	1

Client Sample ID: GES_TSP061322-30

Lab Sample ID: 320-90065-14

Date Collected: 07/14/22 06:47

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.3515		0.2963	0.2963	ug/m3 (Air)			07/19/22 14:30	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90065-1

Client Sample ID: GES_PM061322-31

Lab Sample ID: 320-90065-15

Date Collected: 07/14/22 07:00

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012		0.00068	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:39	1
Copper	0.020		0.0014	0.00010	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:39	1
Manganese	0.0023		0.00068	0.000095	ug/m3 (Air)		07/22/22 06:15	07/22/22 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.28	0.28	ug/m3			07/19/22 14:30	1

Client Sample ID: GES_TSP061322-31

Lab Sample ID: 320-90065-16

Date Collected: 07/14/22 07:00

Matrix: Air

Date Received: 07/15/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.9397		0.2810	0.2810	ug/m3 (Air)			07/19/22 14:30	1

QC Sample Results

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

Job ID: 320-90065-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-604703/1-B
Matrix: Air
Analysis Batch: 605048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/22/22 06:15	07/22/22 14:54	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/22/22 06:15	07/22/22 14:54	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/22/22 06:15	07/22/22 14:54	1

Lab Sample ID: LCS 320-604703/2-B
Matrix: Air
Analysis Batch: 605048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.241		ug/m3 (Air)		100	86 - 111
Copper	0.240	0.235		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.239		ug/m3 (Air)		99	88 - 110

Lab Sample ID: LCSD 320-604703/3-B
Matrix: Air
Analysis Batch: 605048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604716

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.244		ug/m3 (Air)		102	86 - 111	1	15
Copper	0.240	0.253		ug/m3 (Air)		105	85 - 110	7	15
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110	5	15

QC Association Summary

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

Job ID: 320-90065-1

Metals

Pre Prep Batch: 604703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90065-1	GES_PM061322-24	Total/NA	Air	Filter to Air	
320-90065-3	GES_PM061322-25	Total/NA	Air	Filter to Air	
320-90065-5	GES_PM061322-26	Total/NA	Air	Filter to Air	
320-90065-7	GES_PM061322-27	Total/NA	Air	Filter to Air	
320-90065-9	GES_PM061322-28	Total/NA	Air	Filter to Air	
320-90065-11	GES_PM061322-29	Total/NA	Air	Filter to Air	
320-90065-13	GES_PM061322-30	Total/NA	Air	Filter to Air	
320-90065-15	GES_PM061322-31	Total/NA	Air	Filter to Air	
MB 320-604703/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-604703/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-604703/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 604716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90065-1	GES_PM061322-24	Total/NA	Air	3050B	604703
320-90065-3	GES_PM061322-25	Total/NA	Air	3050B	604703
320-90065-5	GES_PM061322-26	Total/NA	Air	3050B	604703
320-90065-7	GES_PM061322-27	Total/NA	Air	3050B	604703
320-90065-9	GES_PM061322-28	Total/NA	Air	3050B	604703
320-90065-11	GES_PM061322-29	Total/NA	Air	3050B	604703
320-90065-13	GES_PM061322-30	Total/NA	Air	3050B	604703
320-90065-15	GES_PM061322-31	Total/NA	Air	3050B	604703
MB 320-604703/1-B	Method Blank	Total/NA	Air	3050B	604703
LCS 320-604703/2-B	Lab Control Sample	Total/NA	Air	3050B	604703
LCSD 320-604703/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	604703

Analysis Batch: 605048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90065-1	GES_PM061322-24	Total/NA	Air	6020	604716
320-90065-3	GES_PM061322-25	Total/NA	Air	6020	604716
320-90065-5	GES_PM061322-26	Total/NA	Air	6020	604716
320-90065-7	GES_PM061322-27	Total/NA	Air	6020	604716
320-90065-9	GES_PM061322-28	Total/NA	Air	6020	604716
320-90065-11	GES_PM061322-29	Total/NA	Air	6020	604716
320-90065-13	GES_PM061322-30	Total/NA	Air	6020	604716
320-90065-15	GES_PM061322-31	Total/NA	Air	6020	604716
MB 320-604703/1-B	Method Blank	Total/NA	Air	6020	604716
LCS 320-604703/2-B	Lab Control Sample	Total/NA	Air	6020	604716
LCSD 320-604703/3-B	Lab Control Sample Dup	Total/NA	Air	6020	604716

General Chemistry

Pre Prep Batch: 604864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90065-2	GES_TSP061322-24	Total/NA	Air	Filter to Air	
320-90065-4	GES_TSP061322-25	Total/NA	Air	Filter to Air	
320-90065-6	GES_TSP061322-26	Total/NA	Air	Filter to Air	
320-90065-8	GES_TSP061322-27	Total/NA	Air	Filter to Air	
320-90065-10	GES_TSP061322-28	Total/NA	Air	Filter to Air	
320-90065-12	GES_TSP061322-29	Total/NA	Air	Filter to Air	
320-90065-14	GES_TSP061322-30	Total/NA	Air	Filter to Air	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-90065-1

General Chemistry (Continued)

Pre Prep Batch: 604864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90065-16	GES_TSP061322-31	Total/NA	Air	Filter to Air	

Analysis Batch: 604884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90065-1	GES_PM061322-24	Total/NA	Air	PM10	
320-90065-3	GES_PM061322-25	Total/NA	Air	PM10	
320-90065-5	GES_PM061322-26	Total/NA	Air	PM10	
320-90065-7	GES_PM061322-27	Total/NA	Air	PM10	
320-90065-9	GES_PM061322-28	Total/NA	Air	PM10	
320-90065-11	GES_PM061322-29	Total/NA	Air	PM10	
320-90065-13	GES_PM061322-30	Total/NA	Air	PM10	
320-90065-15	GES_PM061322-31	Total/NA	Air	PM10	

Analysis Batch: 604911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90065-2	GES_TSP061322-24	Total/NA	Air	40CFR50 App B	604864
320-90065-4	GES_TSP061322-25	Total/NA	Air	40CFR50 App B	604864
320-90065-6	GES_TSP061322-26	Total/NA	Air	40CFR50 App B	604864
320-90065-8	GES_TSP061322-27	Total/NA	Air	40CFR50 App B	604864
320-90065-10	GES_TSP061322-28	Total/NA	Air	40CFR50 App B	604864
320-90065-12	GES_TSP061322-29	Total/NA	Air	40CFR50 App B	604864
320-90065-14	GES_TSP061322-30	Total/NA	Air	40CFR50 App B	604864
320-90065-16	GES_TSP061322-31	Total/NA	Air	40CFR50 App B	604864

Lab Chronicle

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

Job ID: 320-90065-1

Client Sample ID: GES_PM061322-24

Lab Sample ID: 320-90065-1

Date Collected: 07/07/22 14:35

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:04	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0186 g	604884	07/19/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP061322-24

Lab Sample ID: 320-90065-2

Date Collected: 07/07/22 14:35

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Client Sample ID: GES_PM061322-25

Lab Sample ID: 320-90065-3

Date Collected: 07/07/22 14:40

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:13	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0029 g	604884	07/19/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP061322-25

Lab Sample ID: 320-90065-4

Date Collected: 07/07/22 14:40

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Client Sample ID: GES_PM061322-26

Lab Sample ID: 320-90065-5

Date Collected: 07/12/22 07:00

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:16	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0395 g	604884	07/19/22 14:30	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-90065-1

Client Sample ID: GES_TSP061322-26

Lab Sample ID: 320-90065-6

Date Collected: 07/12/22 07:00

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Client Sample ID: GES_PM061322-27

Lab Sample ID: 320-90065-7

Date Collected: 07/12/22 06:46

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:26	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0274 g	604884	07/19/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP061322-27

Lab Sample ID: 320-90065-8

Date Collected: 07/12/22 06:46

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Client Sample ID: GES_PM061322-28

Lab Sample ID: 320-90065-9

Date Collected: 07/13/22 06:52

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:29	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0332 g	604884	07/19/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP061322-28

Lab Sample ID: 320-90065-10

Date Collected: 07/13/22 06:52

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-90065-1

Client Sample ID: GES_PM061322-29

Lab Sample ID: 320-90065-11

Date Collected: 07/13/22 07:10

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:33	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0094 g	604884	07/19/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP061322-29

Lab Sample ID: 320-90065-12

Date Collected: 07/13/22 07:10

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Client Sample ID: GES_PM061322-30

Lab Sample ID: 320-90065-13

Date Collected: 07/14/22 06:47

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:36	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0398 g	604884	07/19/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP061322-30

Lab Sample ID: 320-90065-14

Date Collected: 07/14/22 06:47

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Client Sample ID: GES_PM061322-31

Lab Sample ID: 320-90065-15

Date Collected: 07/14/22 07:00

Matrix: Air

Date Received: 07/15/22 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					604703	07/22/22 04:31	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	604716	07/22/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			605048	07/22/22 15:39	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0240 g	604884	07/19/22 14:30	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-90065-1

Client Sample ID: GES_TSP061322-31

Lab Sample ID: 320-90065-16

Date Collected: 07/14/22 07:00

Matrix: Air

Date Received: 07/15/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			604911	07/19/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					604864	07/22/22 14:46	JMD	TAL SAC

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 320-90065-1

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: 320-90065-1

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

TAL 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: 320-90065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90065-1	GES_PM061322-24	Air	07/07/22 14:35	07/15/22 09:40
320-90065-2	GES_TSP061322-24	Air	07/07/22 14:35	07/15/22 09:40
320-90065-3	GES_PM061322-25	Air	07/07/22 14:40	07/15/22 09:40
320-90065-4	GES_TSP061322-25	Air	07/07/22 14:40	07/15/22 09:40
320-90065-5	GES_PM061322-26	Air	07/12/22 07:00	07/15/22 09:40
320-90065-6	GES_TSP061322-26	Air	07/12/22 07:00	07/15/22 09:40
320-90065-7	GES_PM061322-27	Air	07/12/22 06:46	07/15/22 09:40
320-90065-8	GES_TSP061322-27	Air	07/12/22 06:46	07/15/22 09:40
320-90065-9	GES_PM061322-28	Air	07/13/22 06:52	07/15/22 09:40
320-90065-10	GES_TSP061322-28	Air	07/13/22 06:52	07/15/22 09:40
320-90065-11	GES_PM061322-29	Air	07/13/22 07:10	07/15/22 09:40
320-90065-12	GES_TSP061322-29	Air	07/13/22 07:10	07/15/22 09:40
320-90065-13	GES_PM061322-30	Air	07/14/22 06:47	07/15/22 09:40
320-90065-14	GES_TSP061322-30	Air	07/14/22 06:47	07/15/22 09:40
320-90065-15	GES_PM061322-31	Air	07/14/22 07:00	07/15/22 09:40
320-90065-16	GES_TSP061322-31	Air	07/14/22 07:00	07/15/22 09:40



**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT071422AIR



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

Comments:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



Equipment:

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	NO500 - Air TSP	SW620 - Air Pb Mn Cu	1	1	1	Sample Type	Depth (ft bgs)		Cooler	Comments
													Top	Bottom		
1	GES_PM061322-24	07/07/2022	1435	KT	X	X	X	X	AMSE1	0.00	0.00	1	N2	0.00	0.00	VOLUME: 536.05 (M3)
2	GES_TSP061322-24	07/07/2022	1435	KT	X	X	X	X	AMSE1	0.00	0.00	1	N2	0.00	0.00	VOLUME: 514.27 (M3)
3	GES_PM061322-25	07/07/2022	1440	KT	X	X	X	X	AMSE2	0.00	0.00	1	N2	0.00	0.00	VOLUME: 566.02 (M3)
4	GES_TSP061322-25	07/07/2022	1440	KT	X	X	X	X	AMSE2	0.00	0.00	1	N2	0.00	0.00	VOLUME: 569.14 (M3)
5	GES_PM061322-26	07/12/2022	0700	KT	X	X	X	X	AMSE1	0.00	0.00	1	N1	0.00	0.00	VOLUME: 1744.64 (M3)
6	GES_TSP061322-26	07/12/2022	0700	KT	X	X	X	X	AMSE1	0.00	0.00	1	N1	0.00	0.00	VOLUME: 1709.09 (M3)
7	GES_PM061322-27	07/12/2022	0646	KT	X	X	X	X	AMSE2	0.00	0.00	1	N1	0.00	0.00	VOLUME: 1711.98 (M3)
8	GES_TSP061322-27	07/12/2022	0646	KT	X	X	X	X	AMSE2	0.00	0.00	1	N1	0.00	0.00	VOLUME: 1711.62 (M3)
9	GES_PM061322-28	07/13/2022	0652	KT	X	X	X	X	AMSE1	0.00	0.00	1	N1	0.00	0.00	VOLUME: 1731.65 (M3)
10	GES_TSP061322-28	07/13/2022	0652	KT	X	X	X	X	AMSE1	0.00	0.00	1	N1	0.00	0.00	VOLUME: 1671.72 (M3)
11	GES_PM061322-29	07/13/2022	0710	KT	X	X	X	X	AMSE2	0.00	0.00	1	N1	0.00	0.00	VOLUME: 1778.22 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	2/14/22	1600	[REDACTED]	7/14/22	1600	Shipping Date: 7/14/2022 / FedEx 7773 6736 0263
				7/15/22	940	Received by Laboratory: (Signature, Date, Time) & condition

GES Navy_COC_Field
July 14, 2022

2040



**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT071422AIR



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

Comments:

Code	Matrix
A	Air

Code Container/Preservative
 1 1x 250-mL Plastic, 4 Degrees C
 1 1x Envelope, None

Equipment:

Analytical Test Method

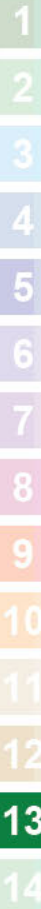
CAIR - Air PM10	1	1	1
N0500 - Air TSP	1	1	1
SW6020 - Air Pb Mn Cu	1	1	1

Event: Parcel E Phase 2 Air Monitoring									
Sample ID	Matrix	Date	Time	Samp Init.	Location ID	Sample Type	Depth (ft bgs)	Cooler	Comments
12	GES_TSP061322-29	07/13/2022	0710	KT	AMSE2	N1	0.00 0.00	1	VOLUME: 1776.21 (M3)
13	GES_PMD061322-30	07/14/2022	0647	KT	AMSE1	N1	0.00 0.00	1	VOLUME: 1733.33 (M3)
14	GES_TSP061322-30	07/14/2022	0647	KT	AMSE1	N1	0.00 0.00	1	VOLUME: 1687.38 (M3)
15	GES_PMD061322-31	07/14/2022	0700	KT	AMSE2	N1	0.00 0.00	1	VOLUME: 1759.42 (M3)
16	GES_TSP061322-31	07/14/2022	0700	KT	AMSE2	N1	0.00 0.00	1	VOLUME: 1779.33 (M3)
17									
18									
19									
20									

Turnaround Time: NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	7/14/22	1600	[Redacted]	7/14/22	1600	Shipping Date: 7/14/2022 / FedEx 7773 6736 0263
				7/15/22	940	Received by Laboratory: (Signature, Date, Time) & condition

20.4



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-90065-1

Login Number: 90065

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: 320-90175-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: 



LINKS

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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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

Definitions/Glossary

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

Job ID: 320-90175-1

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: 320-90175-1

Job ID: 320-90175-1

Laboratory: Eurofins Sacramento

Narrative

**Job Narrative
320-90175-1**

Comments

No additional comments.

Receipt

The samples were received on 7/20/2022 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 21.3° 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: 320-90175-1

Client Sample ID: GES_PM061322-32

Lab Sample ID: 320-90175-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.028		0.0020	0.00029	ug/m3 (Air)	1		6020	Total/NA
Copper	0.15		0.0039	0.00029	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.048	B	0.0020	0.00027	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	75		0.81	0.81	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-32

Lab Sample ID: 320-90175-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	114.7120		0.8497	0.8497	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-33

Lab Sample ID: 320-90175-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.0020	0.00029	ug/m3 (Air)	1		6020	Total/NA
Copper	0.045		0.0039	0.00029	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0073	B	0.0020	0.00027	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	26		0.82	0.82	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-33

Lab Sample ID: 320-90175-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	51.9148		0.8214	0.8214	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-34

Lab Sample ID: 320-90175-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0050		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.028		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013	B	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: GES_TSP061322-34

Lab Sample ID: 320-90175-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	52.8242		0.3039	0.3039	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-35

Lab Sample ID: 320-90175-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.051		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0070	B	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: GES_TSP061322-35

Lab Sample ID: 320-90175-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.0721		0.2909	0.2909	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: 320-90175-1

Client Sample ID: GES_PM061322-32

Lab Sample ID: 320-90175-1

Date Collected: 07/14/22 15:30

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.028		0.0020	0.00029	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:40	1
Copper	0.15		0.0039	0.00029	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:40	1
Manganese	0.048	B	0.0020	0.00027	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	75		0.81	0.81	ug/m3			07/21/22 13:00	1

Client Sample ID: GES_TSP061322-32

Lab Sample ID: 320-90175-2

Date Collected: 07/14/22 15:30

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	114.7120		0.8497	0.8497	ug/m3 (Air)			07/21/22 13:00	1

Client Sample ID: GES_PM061322-33

Lab Sample ID: 320-90175-3

Date Collected: 07/14/22 15:27

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.0020	0.00029	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:44	1
Copper	0.045		0.0039	0.00029	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:44	1
Manganese	0.0073	B	0.0020	0.00027	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	26		0.82	0.82	ug/m3			07/21/22 13:00	1

Client Sample ID: GES_TSP061322-33

Lab Sample ID: 320-90175-4

Date Collected: 07/14/22 15:27

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	51.9148		0.8214	0.8214	ug/m3 (Air)			07/21/22 13:00	1

Client Sample ID: GES_PM061322-34

Lab Sample ID: 320-90175-5

Date Collected: 07/19/22 06:32

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0050		0.00070	0.00011	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:47	1
Copper	0.028		0.0014	0.00011	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:47	1
Manganese	0.013	B	0.00070	0.000098	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:47	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90175-1

Client Sample ID: GES_PM061322-34

Lab Sample ID: 320-90175-5

Date Collected: 07/19/22 06:32

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	39		0.29	0.29	ug/m3			07/21/22 13:00	1

Client Sample ID: GES_TSP061322-34

Lab Sample ID: 320-90175-6

Date Collected: 07/19/22 06:32

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	52.8242		0.3039	0.3039	ug/m3 (Air)			07/21/22 13:00	1

Client Sample ID: GES_PM061322-35

Lab Sample ID: 320-90175-7

Date Collected: 07/19/22 06:24

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.00068	0.00010	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:50	1
Copper	0.051		0.0014	0.00010	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:50	1
Manganese	0.0070	B	0.00068	0.000096	ug/m3 (Air)		07/26/22 07:00	07/26/22 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		0.28	0.28	ug/m3			07/21/22 13:00	1

Client Sample ID: GES_TSP061322-35

Lab Sample ID: 320-90175-8

Date Collected: 07/19/22 06:24

Matrix: Air

Date Received: 07/20/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.0721		0.2909	0.2909	ug/m3 (Air)			07/21/22 13:00	1

QC Sample Results

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

Job ID: 320-90175-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-605369/1-B
Matrix: Air
Analysis Batch: 605588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/26/22 07:00	07/26/22 16:19	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/26/22 07:00	07/26/22 16:19	1
Manganese	0.000175	J	0.0012	0.00017	ug/m3 (Air)		07/26/22 07:00	07/26/22 16:19	1

Lab Sample ID: LCS 320-605369/2-B
Matrix: Air
Analysis Batch: 605588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.247		ug/m3 (Air)		103	86 - 111
Copper	0.240	0.246		ug/m3 (Air)		103	85 - 110
Manganese	0.240	0.257		ug/m3 (Air)		107	88 - 110

Lab Sample ID: LCSD 320-605369/3-B
Matrix: Air
Analysis Batch: 605588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 605383

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	1	15
Copper	0.240	0.241		ug/m3 (Air)		100	85 - 110	2	15
Manganese	0.240	0.251		ug/m3 (Air)		105	88 - 110	2	15

QC Association Summary

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

Job ID: 320-90175-1

Metals

Pre Prep Batch: 605369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90175-1	GES_PM061322-32	Total/NA	Air	Filter to Air	
320-90175-3	GES_PM061322-33	Total/NA	Air	Filter to Air	
320-90175-5	GES_PM061322-34	Total/NA	Air	Filter to Air	
320-90175-7	GES_PM061322-35	Total/NA	Air	Filter to Air	
MB 320-605369/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-605369/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-605369/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 605383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90175-1	GES_PM061322-32	Total/NA	Air	3050B	605369
320-90175-3	GES_PM061322-33	Total/NA	Air	3050B	605369
320-90175-5	GES_PM061322-34	Total/NA	Air	3050B	605369
320-90175-7	GES_PM061322-35	Total/NA	Air	3050B	605369
MB 320-605369/1-B	Method Blank	Total/NA	Air	3050B	605369
LCS 320-605369/2-B	Lab Control Sample	Total/NA	Air	3050B	605369
LCSD 320-605369/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	605369

Analysis Batch: 605588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90175-1	GES_PM061322-32	Total/NA	Air	6020	605383
320-90175-3	GES_PM061322-33	Total/NA	Air	6020	605383
320-90175-5	GES_PM061322-34	Total/NA	Air	6020	605383
320-90175-7	GES_PM061322-35	Total/NA	Air	6020	605383
MB 320-605369/1-B	Method Blank	Total/NA	Air	6020	605383
LCS 320-605369/2-B	Lab Control Sample	Total/NA	Air	6020	605383
LCSD 320-605369/3-B	Lab Control Sample Dup	Total/NA	Air	6020	605383

General Chemistry

Pre Prep Batch: 605648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90175-2	GES_TSP061322-32	Total/NA	Air	Filter to Air	
320-90175-4	GES_TSP061322-33	Total/NA	Air	Filter to Air	
320-90175-6	GES_TSP061322-34	Total/NA	Air	Filter to Air	
320-90175-8	GES_TSP061322-35	Total/NA	Air	Filter to Air	

Analysis Batch: 605694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90175-1	GES_PM061322-32	Total/NA	Air	PM10	
320-90175-3	GES_PM061322-33	Total/NA	Air	PM10	
320-90175-5	GES_PM061322-34	Total/NA	Air	PM10	
320-90175-7	GES_PM061322-35	Total/NA	Air	PM10	

Analysis Batch: 605696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90175-2	GES_TSP061322-32	Total/NA	Air	40CFR50 App B	605648
320-90175-4	GES_TSP061322-33	Total/NA	Air	40CFR50 App B	605648
320-90175-6	GES_TSP061322-34	Total/NA	Air	40CFR50 App B	605648
320-90175-8	GES_TSP061322-35	Total/NA	Air	40CFR50 App B	605648

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-90175-1

Client Sample ID: GES_PM061322-32

Lab Sample ID: 320-90175-1

Date Collected: 07/14/22 15:30

Matrix: Air

Date Received: 07/20/22 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					605369	07/26/22 06:13	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	605383	07/26/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			605588	07/26/22 17:40	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0459 g	605694	07/21/22 13:00	JMD	TAL SAC

Client Sample ID: GES_TSP061322-32

Lab Sample ID: 320-90175-2

Date Collected: 07/14/22 15:30

Matrix: Air

Date Received: 07/20/22 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			605696	07/21/22 13:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					605648	07/27/22 12:33	JMD	TAL SAC

Client Sample ID: GES_PM061322-33

Lab Sample ID: 320-90175-3

Date Collected: 07/14/22 15:27

Matrix: Air

Date Received: 07/20/22 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					605369	07/26/22 06:13	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	605383	07/26/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			605588	07/26/22 17:44	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0159 g	605694	07/21/22 13:00	JMD	TAL SAC

Client Sample ID: GES_TSP061322-33

Lab Sample ID: 320-90175-4

Date Collected: 07/14/22 15:27

Matrix: Air

Date Received: 07/20/22 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			605696	07/21/22 13:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					605648	07/27/22 12:33	JMD	TAL SAC

Client Sample ID: GES_PM061322-34

Lab Sample ID: 320-90175-5

Date Collected: 07/19/22 06:32

Matrix: Air

Date Received: 07/20/22 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					605369	07/26/22 06:13	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	605383	07/26/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			605588	07/26/22 17:47	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0671 g	605694	07/21/22 13:00	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-90175-1

Client Sample ID: GES_TSP061322-34

Lab Sample ID: 320-90175-6

Date Collected: 07/19/22 06:32

Matrix: Air

Date Received: 07/20/22 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			605696	07/21/22 13:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					605648	07/27/22 12:33	JMD	TAL SAC

Client Sample ID: GES_PM061322-35

Lab Sample ID: 320-90175-7

Date Collected: 07/19/22 06:24

Matrix: Air

Date Received: 07/20/22 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					605369	07/26/22 06:13	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	605383	07/26/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			605588	07/26/22 17:50	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0446 g	605694	07/21/22 13:00	JMD	TAL SAC

Client Sample ID: GES_TSP061322-35

Lab Sample ID: 320-90175-8

Date Collected: 07/19/22 06:24

Matrix: Air

Date Received: 07/20/22 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			605696	07/21/22 13:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					605648	07/27/22 12:33	JMD	TAL SAC

Laboratory References:

TAL 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: 320-90175-1

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: 320-90175-1

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

- TAL 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: 320-90175-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90175-1	GES_PM061322-32	Air	07/14/22 15:30	07/20/22 09:30
320-90175-2	GES_TSP061322-32	Air	07/14/22 15:30	07/20/22 09:30
320-90175-3	GES_PM061322-33	Air	07/14/22 15:27	07/20/22 09:30
320-90175-4	GES_TSP061322-33	Air	07/14/22 15:27	07/20/22 09:30
320-90175-5	GES_PM061322-34	Air	07/19/22 06:32	07/20/22 09:30
320-90175-6	GES_TSP061322-34	Air	07/19/22 06:32	07/20/22 09:30
320-90175-7	GES_PM061322-35	Air	07/19/22 06:24	07/20/22 09:30
320-90175-8	GES_TSP061322-35	Air	07/19/22 06:24	07/20/22 09:30

- 1
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- 11
- 12
- 13
- 14

**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT071922AIR



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

Comments:

Equipment:

Analytical Test Method

CAIR - Air PM10
 N0500 - Air TSP
 SW6020 - Air Pb Mn Cu



Code	Matrix
A	Air
Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
								Top	Bottom		
1	GES_PM061322-32	07/14/2022	1530	KT	CAIR - Air PM10	AMSE1	N2	0.00	0.00	1	VOLUME: 614.18 (M3)
2	GES_TSP061322-32	07/14/2022	1530	KT	N0500 - Air TSP	AMSE1	N2	0.00	0.00	1	VOLUME: 588.43 (M3)
3	GES_PM061322-33	07/14/2022	1527	KT	CAIR - Air PM10	AMSE2	N2	0.00	0.00	1	VOLUME: 613.19 (M3)
4	GES_TSP061322-33	07/14/2022	1527	KT	N0500 - Air TSP	AMSE2	N2	0.00	0.00	1	VOLUME: 608.69 (M3)
5	GES_PM061322-34	07/19/2022	0632	KT	CAIR - Air PM10	AMSE1	N1	0.00	0.00	1	VOLUME: 1707.26 (M3)
6	GES_TSP061322-34	07/19/2022	0632	KT	N0500 - Air TSP	AMSE1	N1	0.00	0.00	1	VOLUME: 1645.08 (M3)
7	GES_PM061322-35	07/19/2022	0624	KT	CAIR - Air PM10	AMSE2	N1	0.00	0.00	1	VOLUME: 1758.30 (M3)
8	GES_TSP061322-35	07/19/2022	0624	KT	N0500 - Air TSP	AMSE2	N1	0.00	0.00	1	VOLUME: 1718.64 (M3)
9											
10											

Turnaround Time: NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	07/19/22	1600	[Redacted]	07/19/22	1600	Shipping Date: 7/19/2022 / FedEx 7774 1827 9149
				7-20-22	0930	Received by Laboratory: (Signature, Date, Time) & condition

GES Navy COC_Field
July 19, 2022

21.3



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-90175-1

Login Number: 90175

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: 320-90269-1

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] for release by:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

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www.eurofinsus.com/Env

[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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	11
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

Definitions/Glossary

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

Job ID: 320-90269-1

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: 320-90269-1

Job ID: 320-90269-1

Laboratory: Eurofins Sacramento

Narrative

**Job Narrative
320-90269-1**

Comments

No additional comments.

Receipt

The samples were received on 7/22/2022 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 20.8° 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: 320-90269-1

Client Sample ID: GES_PM061322-36

Lab Sample ID: 320-90269-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0096		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0085		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP061322-36

Lab Sample ID: 320-90269-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.2663		0.2992	0.2992	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-55

Lab Sample ID: 320-90269-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0040		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.093		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0073		0.00068	0.000095	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: GES_TSP062722-55

Lab Sample ID: 320-90269-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	22.1095		0.2879	0.2879	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-56

Lab Sample ID: 320-90269-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0069		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-56

Lab Sample ID: 320-90269-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	23.9464		0.3062	0.3062	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-57

Lab Sample ID: 320-90269-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0032		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0062		0.00069	0.000096	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: GES_TSP062722-57

Lab Sample ID: 320-90269-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	18.3773		0.2880	0.2880	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: 320-90269-1

Client Sample ID: GES_PM061322-36

Lab Sample ID: 320-90269-1

Date Collected: 07/20/22 06:37

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:40	1
Copper	0.0096		0.0014	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:40	1
Manganese	0.0085		0.00069	0.000097	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.29	0.29	ug/m3			07/26/22 15:00	1

Client Sample ID: GES_TSP061322-36

Lab Sample ID: 320-90269-2

Date Collected: 07/20/22 06:37

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.2663		0.2992	0.2992	ug/m3 (Air)			07/26/22 15:00	1

Client Sample ID: GES_PM061322-55

Lab Sample ID: 320-90269-3

Date Collected: 07/20/22 06:29

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0040		0.00068	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:50	1
Copper	0.093		0.0014	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:50	1
Manganese	0.0073		0.00068	0.000095	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.28	0.28	ug/m3			07/26/22 15:00	1

Client Sample ID: GES_TSP062722-55

Lab Sample ID: 320-90269-4

Date Collected: 07/20/22 06:29

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.1095		0.2879	0.2879	ug/m3 (Air)			07/26/22 15:00	1

Client Sample ID: GES_PM061322-56

Lab Sample ID: 320-90269-5

Date Collected: 07/21/22 06:40

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.00069	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:53	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:53	1
Manganese	0.0069		0.00069	0.000097	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:53	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90269-1

Client Sample ID: GES_PM061322-56

Lab Sample ID: 320-90269-5

Date Collected: 07/21/22 06:40

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.29	0.29	ug/m3			07/26/22 15:00	1

Client Sample ID: GES_TSP062722-56

Lab Sample ID: 320-90269-6

Date Collected: 07/21/22 06:40

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.9464		0.3062	0.3062	ug/m3 (Air)			07/26/22 15:00	1

Client Sample ID: GES_PM061322-57

Lab Sample ID: 320-90269-7

Date Collected: 07/21/22 06:33

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032		0.00069	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:56	1
Copper	0.12		0.0014	0.00010	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:56	1
Manganese	0.0062		0.00069	0.000096	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.29	0.29	ug/m3			07/26/22 15:00	1

Client Sample ID: GES_TSP062722-57

Lab Sample ID: 320-90269-8

Date Collected: 07/21/22 06:33

Matrix: Air

Date Received: 07/22/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.3773		0.2880	0.2880	ug/m3 (Air)			07/26/22 15:00	1

QC Sample Results

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

Job ID: 320-90269-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-606200/1-B
Matrix: Air
Analysis Batch: 606482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/29/22 11:30	07/29/22 14:31	1

Lab Sample ID: MB 320-606200/1-B
Matrix: Air
Analysis Batch: 606816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/29/22 11:30	08/01/22 14:17	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/29/22 11:30	08/01/22 14:17	1

Lab Sample ID: LCS 320-606200/2-B
Matrix: Air
Analysis Batch: 606482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110

Lab Sample ID: LCS 320-606200/2-B
Matrix: Air
Analysis Batch: 606816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.259		ug/m3 (Air)		108	86 - 111
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCSD 320-606200/3-B
Matrix: Air
Analysis Batch: 606482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 606225

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.240	0.257		ug/m3 (Air)		107	85 - 110	5	15

Lab Sample ID: LCSD 320-606200/3-B
Matrix: Air
Analysis Batch: 606816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 606225

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.243		ug/m3 (Air)		101	86 - 111	6	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: 320-90269-1

Metals

Pre Prep Batch: 606200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90269-1	GES_PM061322-36	Total/NA	Air	Filter to Air	
320-90269-3	GES_PM061322-55	Total/NA	Air	Filter to Air	
320-90269-5	GES_PM061322-56	Total/NA	Air	Filter to Air	
320-90269-7	GES_PM061322-57	Total/NA	Air	Filter to Air	
MB 320-606200/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-606200/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-606200/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 606225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90269-1	GES_PM061322-36	Total/NA	Air	3050B	606200
320-90269-3	GES_PM061322-55	Total/NA	Air	3050B	606200
320-90269-5	GES_PM061322-56	Total/NA	Air	3050B	606200
320-90269-7	GES_PM061322-57	Total/NA	Air	3050B	606200
MB 320-606200/1-B	Method Blank	Total/NA	Air	3050B	606200
LCS 320-606200/2-B	Lab Control Sample	Total/NA	Air	3050B	606200
LCSD 320-606200/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	606200

Analysis Batch: 606482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90269-1	GES_PM061322-36	Total/NA	Air	6020	606225
320-90269-3	GES_PM061322-55	Total/NA	Air	6020	606225
320-90269-5	GES_PM061322-56	Total/NA	Air	6020	606225
320-90269-7	GES_PM061322-57	Total/NA	Air	6020	606225
MB 320-606200/1-B	Method Blank	Total/NA	Air	6020	606225
LCS 320-606200/2-B	Lab Control Sample	Total/NA	Air	6020	606225
LCSD 320-606200/3-B	Lab Control Sample Dup	Total/NA	Air	6020	606225

Analysis Batch: 606816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-606200/1-B	Method Blank	Total/NA	Air	6020	606225
LCS 320-606200/2-B	Lab Control Sample	Total/NA	Air	6020	606225
LCSD 320-606200/3-B	Lab Control Sample Dup	Total/NA	Air	6020	606225

General Chemistry

Pre Prep Batch: 606372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90269-2	GES_TSP061322-36	Total/NA	Air	Filter to Air	
320-90269-4	GES_TSP062722-55	Total/NA	Air	Filter to Air	
320-90269-6	GES_TSP062722-56	Total/NA	Air	Filter to Air	
320-90269-8	GES_TSP062722-57	Total/NA	Air	Filter to Air	

Analysis Batch: 606399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90269-1	GES_PM061322-36	Total/NA	Air	PM10	
320-90269-3	GES_PM061322-55	Total/NA	Air	PM10	
320-90269-5	GES_PM061322-56	Total/NA	Air	PM10	
320-90269-7	GES_PM061322-57	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-90269-1

General Chemistry

Analysis Batch: 606415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90269-2	GES_TSP061322-36	Total/NA	Air	40CFR50 App B	606372
320-90269-4	GES_TSP062722-55	Total/NA	Air	40CFR50 App B	606372
320-90269-6	GES_TSP062722-56	Total/NA	Air	40CFR50 App B	606372
320-90269-8	GES_TSP062722-57	Total/NA	Air	40CFR50 App B	606372

- 1
- 2
- 3
- 4
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Lab Chronicle

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

Job ID: 320-90269-1

Client Sample ID: GES_PM061322-36

Lab Sample ID: 320-90269-1

Date Collected: 07/20/22 06:37

Matrix: Air

Date Received: 07/22/22 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					606200	07/29/22 10:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	606225	07/29/22 11:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			606482	07/29/22 14:40	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0232 g	606399	07/26/22 15:00	JMD	TAL SAC

Client Sample ID: GES_TSP061322-36

Lab Sample ID: 320-90269-2

Date Collected: 07/20/22 06:37

Matrix: Air

Date Received: 07/22/22 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			606415	07/26/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					606372	07/29/22 15:34	JMD	TAL SAC

Client Sample ID: GES_PM061322-55

Lab Sample ID: 320-90269-3

Date Collected: 07/20/22 06:29

Matrix: Air

Date Received: 07/22/22 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					606200	07/29/22 10:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	606225	07/29/22 11:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			606482	07/29/22 14:50	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0233 g	606399	07/26/22 15:00	JMD	TAL SAC

Client Sample ID: GES_TSP062722-55

Lab Sample ID: 320-90269-4

Date Collected: 07/20/22 06:29

Matrix: Air

Date Received: 07/22/22 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			606415	07/26/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					606372	07/29/22 15:34	JMD	TAL SAC

Client Sample ID: GES_PM061322-56

Lab Sample ID: 320-90269-5

Date Collected: 07/21/22 06:40

Matrix: Air

Date Received: 07/22/22 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					606200	07/29/22 10:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	606225	07/29/22 11:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			606482	07/29/22 14:53	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0242 g	606399	07/26/22 15:00	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-90269-1

Client Sample ID: GES_TSP062722-56

Lab Sample ID: 320-90269-6

Date Collected: 07/21/22 06:40

Matrix: Air

Date Received: 07/22/22 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			606415	07/26/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					606372	07/29/22 15:34	JMD	TAL SAC

Client Sample ID: GES_PM061322-57

Lab Sample ID: 320-90269-7

Date Collected: 07/21/22 06:33

Matrix: Air

Date Received: 07/22/22 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					606200	07/29/22 10:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	606225	07/29/22 11:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			606482	07/29/22 14:56	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0200 g	606399	07/26/22 15:00	JMD	TAL SAC

Client Sample ID: GES_TSP062722-57

Lab Sample ID: 320-90269-8

Date Collected: 07/21/22 06:33

Matrix: Air

Date Received: 07/22/22 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			606415	07/26/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					606372	07/29/22 15:34	JMD	TAL SAC

Laboratory References:

TAL 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: 320-90269-1

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: 320-90269-1

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

- TAL 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: 320-90269-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90269-1	GES_PM061322-36	Air	07/20/22 06:37	07/22/22 09:00
320-90269-2	GES_TSP061322-36	Air	07/20/22 06:37	07/22/22 09:00
320-90269-3	GES_PM061322-55	Air	07/20/22 06:29	07/22/22 09:00
320-90269-4	GES_TSP062722-55	Air	07/20/22 06:29	07/22/22 09:00
320-90269-5	GES_PM061322-56	Air	07/21/22 06:40	07/22/22 09:00
320-90269-6	GES_TSP062722-56	Air	07/21/22 06:40	07/22/22 09:00
320-90269-7	GES_PM061322-57	Air	07/21/22 06:33	07/22/22 09:00
320-90269-8	GES_TSP062722-57	Air	07/21/22 06:33	07/22/22 09:00

- 1
- 2
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- 13
- 14

**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT072122AIRE



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

Comments:

Equipment:

Analytical Test Method

1	CAAIR - Air PM10	1	1	1	SW6020 - Air Pb Mn Cu
					N0500 - Air TSP

Code Matrix

Code	Matrix
A	Air

Code

1	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None

320-90269 Chain of Custody

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
								Top	Bottom		
1	A	07/20/2022	0637	KT	CAAIR - Air PM10	AMSE1	N1	0.00	0.00	1	VOLUME: 1734.56 (M3)
2	A	07/20/2022	0637	KT	N0500 - Air TSP	AMSE1	N1	0.00	0.00	1	VOLUME: 1671.34 (M3)
3	A	07/20/2022	0629	KT	CAAIR - Air PM10	AMSE2	N1	0.00	0.00	1	VOLUME: 1759.83 (M3)
4	A	07/20/2022	0629	KT	SW6020 - Air Pb Mn Cu	AMSE2	N1	0.00	0.00	1	VOLUME: 1736.81 (M3)
5	A	07/21/2022	0640	KT	CAAIR - Air PM10	AMSE1	N1	0.00	0.00	1	VOLUME: 1730.75 (M3)
6	A	07/21/2022	0640	KT	N0500 - Air TSP	AMSE1	N1	0.00	0.00	1	VOLUME: 1632.81 (M3)
7	A	07/21/2022	0633	KT	CAAIR - Air PM10	AMSE2	N1	0.00	0.00	1	VOLUME: 1750.31 (M3)
8	A	07/21/2022	0633	KT	SW6020 - Air Pb Mn Cu	AMSE2	N1	0.00	0.00	1	VOLUME: 1735.84 (M3)
9											
10											

Turnaround Time: NA

Relinquished by: (Signature) [Redacted] Date: 7/24/22 Time: 6:00 PM

Received by: (Signature) [Redacted] Date: 7-22-22 Time: 09:00

Shipping Date / Carrier / Airbill Number: 7/21/2022 7774 3885 9373

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



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-90269-1

Login Number: 90269

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: 320-90375-1
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:
8/3/2022 5:48:32 PM

[REDACTED]

LINKS

Review your project
results through



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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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	11
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

Definitions/Glossary

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

Job ID: 320-90375-1

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: 320-90375-1

Job ID: 320-90375-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-90375-1

Comments

No additional comments.

Receipt

The samples were received on 7/27/2022 9:05 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 18.6° C.

Metals

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

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- 13
- 14

Detection Summary

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

Job ID: 320-90375-1

Client Sample ID: GES_PM061322-58

Lab Sample ID: 320-90375-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.0020	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.018		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0045		0.0020	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.5		0.85	0.85	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-58

Lab Sample ID: 320-90375-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.4474		0.8965	0.8965	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-59

Lab Sample ID: 320-90375-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0029		0.0019	0.00029	ug/m3 (Air)	1		6020	Total/NA
Copper	0.099		0.0039	0.00029	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0058		0.0019	0.00027	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.4		0.81	0.81	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-59

Lab Sample ID: 320-90375-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	2.3040		0.8229	0.8229	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-60

Lab Sample ID: 320-90375-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0019		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.013		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0054		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.4		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-60

Lab Sample ID: 320-90375-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	18.1399		0.3085	0.3085	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-61

Lab Sample ID: 320-90375-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0019		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.049		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0048		0.00069	0.000097	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: GES_TSP062722-61

Lab Sample ID: 320-90375-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	16.5598		0.2905	0.2905	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: 320-90375-1

Client Sample ID: GES_PM061322-58

Lab Sample ID: 320-90375-1

Date Collected: 07/21/22 14:42

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021		0.0020	0.00031	ug/m3 (Air)		08/03/22 08:45	08/03/22 13:28	1
Copper	0.018		0.0041	0.00031	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:41	1
Manganese	0.0045		0.0020	0.00029	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.5		0.85	0.85	ug/m3			07/29/22 14:30	1

Client Sample ID: GES_TSP062722-58

Lab Sample ID: 320-90375-2

Date Collected: 07/21/22 14:42

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.4474		0.8965	0.8965	ug/m3 (Air)			07/29/22 14:30	1

Client Sample ID: GES_PM061322-59

Lab Sample ID: 320-90375-3

Date Collected: 07/21/22 15:01

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029		0.0019	0.00029	ug/m3 (Air)		08/03/22 08:45	08/03/22 13:38	1
Copper	0.099		0.0039	0.00029	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:51	1
Manganese	0.0058		0.0019	0.00027	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	7.4		0.81	0.81	ug/m3			07/29/22 14:30	1

Client Sample ID: GES_TSP062722-59

Lab Sample ID: 320-90375-4

Date Collected: 07/21/22 15:01

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	2.3040		0.8229	0.8229	ug/m3 (Air)			07/29/22 14:30	1

Client Sample ID: GES_PM061322-60

Lab Sample ID: 320-90375-5

Date Collected: 07/26/22 06:45

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0019		0.00071	0.00011	ug/m3 (Air)		08/03/22 08:45	08/03/22 13:41	1
Copper	0.013		0.0014	0.00011	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:54	1
Manganese	0.0054		0.00071	0.000099	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:54	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90375-1

Client Sample ID: GES_PM061322-60

Lab Sample ID: 320-90375-5

Date Collected: 07/26/22 06:45

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.4		0.30	0.30	ug/m3			07/29/22 14:30	1

Client Sample ID: GES_TSP062722-60

Lab Sample ID: 320-90375-6

Date Collected: 07/26/22 06:45

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.1399		0.3085	0.3085	ug/m3 (Air)			07/29/22 14:30	1

Client Sample ID: GES_PM061322-61

Lab Sample ID: 320-90375-7

Date Collected: 07/26/22 06:38

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0019		0.00069	0.00010	ug/m3 (Air)		08/03/22 08:45	08/03/22 13:45	1
Copper	0.049		0.0014	0.00010	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:57	1
Manganese	0.0048		0.00069	0.000097	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	10		0.29	0.29	ug/m3			07/29/22 14:30	1

Client Sample ID: GES_TSP062722-61

Lab Sample ID: 320-90375-8

Date Collected: 07/26/22 06:38

Matrix: Air

Date Received: 07/27/22 09:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.5598		0.2905	0.2905	ug/m3 (Air)			07/29/22 14:30	1

QC Sample Results

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

Job ID: 320-90375-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-607090/1-B
Matrix: Air
Analysis Batch: 607207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:31	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		08/03/22 08:45	08/03/22 11:31	1

Lab Sample ID: MB 320-607090/1-B
Matrix: Air
Analysis Batch: 607207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		08/03/22 08:45	08/03/22 13:19	1

Lab Sample ID: LCS 320-607090/2-B
Matrix: Air
Analysis Batch: 607207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.240	0.241		ug/m3 (Air)		100	85 - 110
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCS 320-607090/2-B
Matrix: Air
Analysis Batch: 607207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111

Lab Sample ID: LCSD 320-607090/3-B
Matrix: Air
Analysis Batch: 607207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 607122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110	0	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	0	15

Lab Sample ID: LCSD 320-607090/3-B
Matrix: Air
Analysis Batch: 607207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 607122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.249		ug/m3 (Air)		104	86 - 111	5	15

QC Association Summary

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

Job ID: 320-90375-1

Metals

Pre Prep Batch: 607090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90375-1	GES_PM061322-58	Total/NA	Air	Filter to Air	
320-90375-3	GES_PM061322-59	Total/NA	Air	Filter to Air	
320-90375-5	GES_PM061322-60	Total/NA	Air	Filter to Air	
320-90375-7	GES_PM061322-61	Total/NA	Air	Filter to Air	
MB 320-607090/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-607090/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-607090/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 607122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90375-1	GES_PM061322-58	Total/NA	Air	3050B	607090
320-90375-3	GES_PM061322-59	Total/NA	Air	3050B	607090
320-90375-5	GES_PM061322-60	Total/NA	Air	3050B	607090
320-90375-7	GES_PM061322-61	Total/NA	Air	3050B	607090
MB 320-607090/1-B	Method Blank	Total/NA	Air	3050B	607090
LCS 320-607090/2-B	Lab Control Sample	Total/NA	Air	3050B	607090
LCSD 320-607090/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	607090

Analysis Batch: 607207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90375-1	GES_PM061322-58	Total/NA	Air	6020	607122
320-90375-1	GES_PM061322-58	Total/NA	Air	6020	607122
320-90375-3	GES_PM061322-59	Total/NA	Air	6020	607122
320-90375-3	GES_PM061322-59	Total/NA	Air	6020	607122
320-90375-5	GES_PM061322-60	Total/NA	Air	6020	607122
320-90375-5	GES_PM061322-60	Total/NA	Air	6020	607122
320-90375-7	GES_PM061322-61	Total/NA	Air	6020	607122
320-90375-7	GES_PM061322-61	Total/NA	Air	6020	607122
MB 320-607090/1-B	Method Blank	Total/NA	Air	6020	607122
MB 320-607090/1-B	Method Blank	Total/NA	Air	6020	607122
LCS 320-607090/2-B	Lab Control Sample	Total/NA	Air	6020	607122
LCS 320-607090/2-B	Lab Control Sample	Total/NA	Air	6020	607122
LCSD 320-607090/3-B	Lab Control Sample Dup	Total/NA	Air	6020	607122
LCSD 320-607090/3-B	Lab Control Sample Dup	Total/NA	Air	6020	607122

General Chemistry

Pre Prep Batch: 607184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90375-2	GES_TSP062722-58	Total/NA	Air	Filter to Air	
320-90375-4	GES_TSP062722-59	Total/NA	Air	Filter to Air	
320-90375-6	GES_TSP062722-60	Total/NA	Air	Filter to Air	
320-90375-8	GES_TSP062722-61	Total/NA	Air	Filter to Air	

Analysis Batch: 607196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90375-1	GES_PM061322-58	Total/NA	Air	PM10	
320-90375-3	GES_PM061322-59	Total/NA	Air	PM10	
320-90375-5	GES_PM061322-60	Total/NA	Air	PM10	
320-90375-7	GES_PM061322-61	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-90375-1

General Chemistry

Analysis Batch: 607197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90375-2	GES_TSP062722-58	Total/NA	Air	40CFR50 App B	607184
320-90375-4	GES_TSP062722-59	Total/NA	Air	40CFR50 App B	607184
320-90375-6	GES_TSP062722-60	Total/NA	Air	40CFR50 App B	607184
320-90375-8	GES_TSP062722-61	Total/NA	Air	40CFR50 App B	607184

- 1
- 2
- 3
- 4
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- 6
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- 12
- 13
- 14

Lab Chronicle

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

Job ID: 320-90375-1

Client Sample ID: GES_PM061322-58

Lab Sample ID: 320-90375-1

Date Collected: 07/21/22 14:42

Matrix: Air

Date Received: 07/27/22 09:05

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					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 11:41	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 13:28	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0050 g	607196	07/29/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP062722-58

Lab Sample ID: 320-90375-2

Date Collected: 07/21/22 14:42

Matrix: Air

Date Received: 07/27/22 09:05

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			607197	07/29/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	TAL SAC

Client Sample ID: GES_PM061322-59

Lab Sample ID: 320-90375-3

Date Collected: 07/21/22 15:01

Matrix: Air

Date Received: 07/27/22 09:05

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					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 11:51	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 13:38	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0046 g	607196	07/29/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP062722-59

Lab Sample ID: 320-90375-4

Date Collected: 07/21/22 15:01

Matrix: Air

Date Received: 07/27/22 09:05

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			607197	07/29/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-90375-1

Client Sample ID: GES_PM061322-60

Lab Sample ID: 320-90375-5

Date Collected: 07/26/22 06:45

Matrix: Air

Date Received: 07/27/22 09:05

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					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 11:54	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 13:41	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0160 g	607196	07/29/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP062722-60

Lab Sample ID: 320-90375-6

Date Collected: 07/26/22 06:45

Matrix: Air

Date Received: 07/27/22 09:05

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			607197	07/29/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	TAL SAC

Client Sample ID: GES_PM061322-61

Lab Sample ID: 320-90375-7

Date Collected: 07/26/22 06:38

Matrix: Air

Date Received: 07/27/22 09:05

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					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 11:57	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607090	08/03/22 06:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607122	08/03/22 08:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			607207	08/03/22 13:45	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0179 g	607196	07/29/22 14:30	JMD	TAL SAC

Client Sample ID: GES_TSP062722-61

Lab Sample ID: 320-90375-8

Date Collected: 07/26/22 06:38

Matrix: Air

Date Received: 07/27/22 09:05

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			607197	07/29/22 14:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	TAL SAC

Laboratory References:

TAL 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: 320-90375-1

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: 320-90375-1

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

- TAL 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: 320-90375-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90375-1	GES_PM061322-58	Air	07/21/22 14:42	07/27/22 09:05
320-90375-2	GES_TSP062722-58	Air	07/21/22 14:42	07/27/22 09:05
320-90375-3	GES_PM061322-59	Air	07/21/22 15:01	07/27/22 09:05
320-90375-4	GES_TSP062722-59	Air	07/21/22 15:01	07/27/22 09:05
320-90375-5	GES_PM061322-60	Air	07/26/22 06:45	07/27/22 09:05
320-90375-6	GES_TSP062722-60	Air	07/26/22 06:45	07/27/22 09:05
320-90375-7	GES_PM061322-61	Air	07/26/22 06:38	07/27/22 09:05
320-90375-8	GES_TSP062722-61	Air	07/26/22 06:38	07/27/22 09:05

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT072622AIRE



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

Comments:

Equipment:

320-90375 Chain of Custody

Barcode: [Barcode]

Code Matrix

Code	Matrix
A	Air

Container/Preservative

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10		N0500 - Air TSP		SW6020 - Air Pb Mn Cu		Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
						1	1	1	1	1	1				
1	A	07/21/2022	1442	KT	X	X	X	X	X	X	X	N2	0.00 0.00	1	VOLUME: 588.44 (M3)
2	A	07/21/2022	1442	KT	X	X	X	X	X	X	X	N2	0.00 0.00	1	VOLUME: 557.73 (M3)
3	A	07/21/2022	1501	KT	X	X	X	X	X	X	X	N2	0.00 0.00	1	VOLUME: 619.15 (M3)
4	A	07/21/2022	1501	KT	X	X	X	X	X	X	X	N2	0.00 0.00	1	VOLUME: 607.63 (M3)
5	A	07/26/2022	0645	KT	X	X	X	X	X	X	X	N1	0.00 0.00	1	VOLUME: 1693.78 (M3)
6	A	07/26/2022	0645	KT	X	X	X	X	X	X	X	N1	0.00 0.00	1	VOLUME: 1620.74 (M3)
7	A	07/26/2022	0638	KT	X	X	X	X	X	X	X	N1	0.00 0.00	1	VOLUME: 1738.34 (M3)
8	A	07/26/2022	0638	KT	X	X	X	X	X	X	X	N1	0.00 0.00	1	VOLUME: 1738.34 (M3)
9															
10															

Turnaround Time: NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	7/24/22	1600	[Redacted]	07/24/22	1600	Shipping Date: 7/25/2022 / FedEx 7774 7621 1650
				7-27-22	905	

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

18.62



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-90375-1

Login Number: 90375

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: 320-90490-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: 



LINKS

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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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

Definitions/Glossary

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

Job ID: 320-90490-1

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: 320-90490-1

Job ID: 320-90490-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-90490-1

Comments

No additional comments.

Receipt

The samples were received on 7/29/2022 9:28 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 20.5° 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: 320-90490-1

Client Sample ID: GES_PM061322-62

Lab Sample ID: 320-90490-1

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	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0089		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	12		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-62

Lab Sample ID: 320-90490-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.7416		0.3003	0.3003	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-63

Lab Sample ID: 320-90490-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0029		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.097		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0063		0.00068	0.000096	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: GES_TSP062722-63

Lab Sample ID: 320-90490-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	17.1022		0.2869	0.2869	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-64

Lab Sample ID: 320-90490-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.011		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0042		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.4		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-64

Lab Sample ID: 320-90490-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	11.4333		0.3041	0.3041	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-65

Lab Sample ID: 320-90490-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.16		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.0		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-65

Lab Sample ID: 320-90490-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.4793		0.2905	0.2905	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: 320-90490-1

Client Sample ID: GES_PM061322-62

Lab Sample ID: 320-90490-1

Date Collected: 07/27/22 06:52

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

Method: 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)		08/04/22 05:45	08/04/22 10:20	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:20	1
Manganese	0.0089		0.00069	0.000097	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.29	0.29	ug/m3			08/01/22 14:30	1

Client Sample ID: GES_TSP062722-62

Lab Sample ID: 320-90490-2

Date Collected: 07/27/22 06:52

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.7416		0.3003	0.3003	ug/m3 (Air)			08/01/22 14:30	1

Client Sample ID: GES_PM061322-63

Lab Sample ID: 320-90490-3

Date Collected: 07/27/22 06:43

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029		0.00068	0.00010	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:30	1
Copper	0.097		0.0014	0.00010	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:30	1
Manganese	0.0063		0.00068	0.000096	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.29	0.29	ug/m3			08/01/22 14:30	1

Client Sample ID: GES_TSP062722-63

Lab Sample ID: 320-90490-4

Date Collected: 07/27/22 06:43

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.1022		0.2869	0.2869	ug/m3 (Air)			08/01/22 14:30	1

Client Sample ID: GES_PM061322-64

Lab Sample ID: 320-90490-5

Date Collected: 07/28/22 06:41

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016		0.00070	0.00010	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:33	1
Copper	0.011		0.0014	0.00010	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:33	1
Manganese	0.0042		0.00070	0.000098	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:33	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90490-1

Client Sample ID: GES_PM061322-64

Lab Sample ID: 320-90490-5

Date Collected: 07/28/22 06:41

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.4		0.29	0.29	ug/m3			08/01/22 14:30	1

Client Sample ID: GES_TSP062722-64

Lab Sample ID: 320-90490-6

Date Collected: 07/28/22 06:41

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	11.4333		0.3041	0.3041	ug/m3 (Air)			08/01/22 14:30	1

Client Sample ID: GES_PM061322-65

Lab Sample ID: 320-90490-7

Date Collected: 07/28/22 06:33

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021		0.00070	0.00010	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:36	1
Copper	0.16		0.0014	0.00010	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:36	1
Manganese	0.0052		0.00070	0.000097	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.0		0.29	0.29	ug/m3			08/01/22 14:30	1

Client Sample ID: GES_TSP062722-65

Lab Sample ID: 320-90490-8

Date Collected: 07/28/22 06:33

Matrix: Air

Date Received: 07/29/22 09:28

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.4793		0.2905	0.2905	ug/m3 (Air)			08/01/22 14:30	1

QC Sample Results

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

Job ID: 320-90490-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-607306/1-B
Matrix: Air
Analysis Batch: 607473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:11	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:11	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		08/04/22 05:45	08/04/22 10:11	1

Lab Sample ID: LCS 320-607306/2-B
Matrix: Air
Analysis Batch: 607473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607307

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

Lab Sample ID: LCSD 320-607306/3-B
Matrix: Air
Analysis Batch: 607473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 607307

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	1	15
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	1	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: 320-90490-1

Metals

Pre Prep Batch: 607306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90490-1	GES_PM061322-62	Total/NA	Air	Filter to Air	
320-90490-3	GES_PM061322-63	Total/NA	Air	Filter to Air	
320-90490-5	GES_PM061322-64	Total/NA	Air	Filter to Air	
320-90490-7	GES_PM061322-65	Total/NA	Air	Filter to Air	
MB 320-607306/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-607306/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-607306/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 607307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90490-1	GES_PM061322-62	Total/NA	Air	3050B	607306
320-90490-3	GES_PM061322-63	Total/NA	Air	3050B	607306
320-90490-5	GES_PM061322-64	Total/NA	Air	3050B	607306
320-90490-7	GES_PM061322-65	Total/NA	Air	3050B	607306
MB 320-607306/1-B	Method Blank	Total/NA	Air	3050B	607306
LCS 320-607306/2-B	Lab Control Sample	Total/NA	Air	3050B	607306
LCSD 320-607306/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	607306

Analysis Batch: 607473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90490-1	GES_PM061322-62	Total/NA	Air	6020	607307
320-90490-3	GES_PM061322-63	Total/NA	Air	6020	607307
320-90490-5	GES_PM061322-64	Total/NA	Air	6020	607307
320-90490-7	GES_PM061322-65	Total/NA	Air	6020	607307
MB 320-607306/1-B	Method Blank	Total/NA	Air	6020	607307
LCS 320-607306/2-B	Lab Control Sample	Total/NA	Air	6020	607307
LCSD 320-607306/3-B	Lab Control Sample Dup	Total/NA	Air	6020	607307

General Chemistry

Pre Prep Batch: 607184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90490-2	GES_TSP062722-62	Total/NA	Air	Filter to Air	
320-90490-4	GES_TSP062722-63	Total/NA	Air	Filter to Air	
320-90490-6	GES_TSP062722-64	Total/NA	Air	Filter to Air	
320-90490-8	GES_TSP062722-65	Total/NA	Air	Filter to Air	

Analysis Batch: 607717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90490-1	GES_PM061322-62	Total/NA	Air	PM10	
320-90490-3	GES_PM061322-63	Total/NA	Air	PM10	
320-90490-5	GES_PM061322-64	Total/NA	Air	PM10	
320-90490-7	GES_PM061322-65	Total/NA	Air	PM10	

Analysis Batch: 607723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90490-2	GES_TSP062722-62	Total/NA	Air	40CFR50 App B	607184
320-90490-4	GES_TSP062722-63	Total/NA	Air	40CFR50 App B	607184
320-90490-6	GES_TSP062722-64	Total/NA	Air	40CFR50 App B	607184
320-90490-8	GES_TSP062722-65	Total/NA	Air	40CFR50 App B	607184

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-90490-1

Client Sample ID: GES_PM061322-62

Lab Sample ID: 320-90490-1

Date Collected: 07/27/22 06:52

Matrix: Air

Date Received: 07/29/22 09:28

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					607306	08/04/22 04:30	NIM	EETNCA S/
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607307	08/04/22 05:45	NIM	EETNCA S/
Total/NA	Analysis	6020		1			607473	08/04/22 10:20	JMD	EETNCA S/
Total/NA	Analysis	PM10		1	0 g	0.0203 g	607717	08/01/22 14:30	JMD	EETNCA S/

Client Sample ID: GES_TSP062722-62

Lab Sample ID: 320-90490-2

Date Collected: 07/27/22 06:52

Matrix: Air

Date Received: 07/29/22 09:28

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			607723	08/01/22 14:30	JMD	EETNCA S/
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	EETNCA S/

Client Sample ID: GES_PM061322-63

Lab Sample ID: 320-90490-3

Date Collected: 07/27/22 06:43

Matrix: Air

Date Received: 07/29/22 09:28

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					607306	08/04/22 04:30	NIM	EETNCA S/
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607307	08/04/22 05:45	NIM	EETNCA S/
Total/NA	Analysis	6020		1			607473	08/04/22 10:30	JMD	EETNCA S/
Total/NA	Analysis	PM10		1	0 g	0.0197 g	607717	08/01/22 14:30	JMD	EETNCA S/

Client Sample ID: GES_TSP062722-63

Lab Sample ID: 320-90490-4

Date Collected: 07/27/22 06:43

Matrix: Air

Date Received: 07/29/22 09:28

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			607723	08/01/22 14:30	JMD	EETNCA S/
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	EETNCA S/

Client Sample ID: GES_PM061322-64

Lab Sample ID: 320-90490-5

Date Collected: 07/28/22 06:41

Matrix: Air

Date Received: 07/29/22 09:28

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					607306	08/04/22 04:30	NIM	EETNCA S/
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607307	08/04/22 05:45	NIM	EETNCA S/
Total/NA	Analysis	6020		1			607473	08/04/22 10:33	JMD	EETNCA S/
Total/NA	Analysis	PM10		1	0 g	0.0110 g	607717	08/01/22 14:30	JMD	EETNCA S/

Lab Chronicle

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

Job ID: 320-90490-1

Client Sample ID: GES_TSP062722-64

Lab Sample ID: 320-90490-6

Date Collected: 07/28/22 06:41

Matrix: Air

Date Received: 07/29/22 09:28

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			607723	08/01/22 14:30	JMD	EETNCA S/
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	EETNCA S

Client Sample ID: GES_PM061322-65

Lab Sample ID: 320-90490-7

Date Collected: 07/28/22 06:33

Matrix: Air

Date Received: 07/29/22 09:28

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					607306	08/04/22 04:30	NIM	EETNCA S/
Total/NA	Prep	3050B			0.08333 Sample	100 mL	607307	08/04/22 05:45	NIM	EETNCA S
Total/NA	Analysis	6020		1			607473	08/04/22 10:36	JMD	EETNCA S
Total/NA	Analysis	PM10		1	0 g	0.0155 g	607717	08/01/22 14:30	JMD	EETNCA S

Client Sample ID: GES_TSP062722-65

Lab Sample ID: 320-90490-8

Date Collected: 07/28/22 06:33

Matrix: Air

Date Received: 07/29/22 09:28

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			607723	08/01/22 14:30	JMD	EETNCA S/
Total/NA	Pre Prep	Filter to Air					607184	08/03/22 13:41	JMD	EETNCA S

Laboratory References:

EETNCA 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: 320-90490-1

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: 320-90490-1

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

- EETNCA 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: 320-90490-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90490-1	GES_PM061322-62	Air	07/27/22 06:52	07/29/22 09:28
320-90490-2	GES_TSP062722-62	Air	07/27/22 06:52	07/29/22 09:28
320-90490-3	GES_PM061322-63	Air	07/27/22 06:43	07/29/22 09:28
320-90490-4	GES_TSP062722-63	Air	07/27/22 06:43	07/29/22 09:28
320-90490-5	GES_PM061322-64	Air	07/28/22 06:41	07/29/22 09:28
320-90490-6	GES_TSP062722-64	Air	07/28/22 06:41	07/29/22 09:28
320-90490-7	GES_PM061322-65	Air	07/28/22 06:33	07/29/22 09:28
320-90490-8	GES_TSP062722-65	Air	07/28/22 06:33	07/29/22 09:28

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

**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT072822AIRE



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

Comments:

Equipment:

320-90490 Chain of Custody

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	1	1	1	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	A	07/27/2022	0652	KT	CAIR - Air PM10	X	X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1735.63 (M3)
2	A	07/27/2022	0652	KT	N0500 - Air TSP	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1665.21 (M3)
3	A	07/27/2022	0643	KT	CAIR - Air PM10	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1752.79 (M3)
4	A	07/27/2022	0643	KT	N0500 - Air TSP	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1742.47 (M3)
5	A	07/28/2022	0641	KT	CAIR - Air PM10	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1715.00 (M3)
6	A	07/28/2022	0641	KT	N0500 - Air TSP	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1644.32 (M3)
7	A	07/28/2022	0633	KT	CAIR - Air PM10	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1725.92 (M3)
8	A	07/28/2022	0633	KT	N0500 - Air TSP	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1721.16 (M3)
9																	
10																	

Turnaround Time: NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	7-28-22	1600	[Redacted]	7-28-22	1600	Shipping Date: 7/28/2022 / FedEx 7775 0296 6358
						Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy_COC_Field
July 28, 2022

20.5



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-90490-1

Login Number: 90490

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	
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: 320-90622-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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results through



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■ 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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	11
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

Definitions/Glossary

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

Job ID: 320-90622-1

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: 320-90622-1

Job ID: 320-90622-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-90622-1

Comments

No additional comments.

Receipt

The samples were received on 8/3/2022 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 19.3° 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: 320-90622-1

Client Sample ID: GES_PM061322-66

Lab Sample ID: 320-90622-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016	J	0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.019		0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0034		0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.8		0.89	0.89	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-66

Lab Sample ID: 320-90622-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	2.9789		0.9309	0.9309	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-67

Lab Sample ID: 320-90622-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0015	J	0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0042	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0035		0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.9		0.88	0.88	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-67

Lab Sample ID: 320-90622-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	11.7142		0.8874	0.8874	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-68

Lab Sample ID: 320-90622-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.019		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0054		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-68

Lab Sample ID: 320-90622-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.6176		0.3054	0.3054	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GES_PM061322-69

Lab Sample ID: 320-90622-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0014		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.034		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0042		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GES_TSP062722-69

Lab Sample ID: 320-90622-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.7364		0.2904	0.2904	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: 320-90622-1

Client Sample ID: GES_PM061322-66

Lab Sample ID: 320-90622-1

Date Collected: 07/28/22 14:32

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016	J	0.0021	0.00032	ug/m3 (Air)		08/09/22 06:15	08/10/22 14:46	1
Copper	0.019		0.0043	0.00032	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:43	1
Manganese	0.0034		0.0021	0.00030	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	7.8		0.89	0.89	ug/m3			08/04/22 15:30	1

Client Sample ID: GES_TSP062722-66

Lab Sample ID: 320-90622-2

Date Collected: 07/28/22 14:32

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	2.9789		0.9309	0.9309	ug/m3 (Air)			08/04/22 14:30	1

Client Sample ID: GES_PM061322-67

Lab Sample ID: 320-90622-3

Date Collected: 07/28/22 14:25

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0015	J	0.0021	0.00032	ug/m3 (Air)		08/09/22 06:15	08/10/22 14:55	1
Copper	0.13		0.0042	0.00032	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:52	1
Manganese	0.0035		0.0021	0.00030	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.9		0.88	0.88	ug/m3			08/04/22 15:30	1

Client Sample ID: GES_TSP062722-67

Lab Sample ID: 320-90622-4

Date Collected: 07/28/22 14:25

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	11.7142		0.8874	0.8874	ug/m3 (Air)			08/04/22 14:30	1

Client Sample ID: GES_PM061322-68

Lab Sample ID: 320-90622-5

Date Collected: 08/02/22 06:44

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021		0.00071	0.00011	ug/m3 (Air)		08/09/22 06:15	08/10/22 14:59	1
Copper	0.019		0.0014	0.00011	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:56	1
Manganese	0.0054		0.00071	0.000099	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:56	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-90622-1

Client Sample ID: GES_PM061322-68

Lab Sample ID: 320-90622-5

Date Collected: 08/02/22 06:44

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.29	0.29	ug/m3			08/04/22 15:30	1

Client Sample ID: GES_TSP062722-68

Lab Sample ID: 320-90622-6

Date Collected: 08/02/22 06:44

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.6176		0.3054	0.3054	ug/m3 (Air)			08/04/22 14:30	1

Client Sample ID: GES_PM061322-69

Lab Sample ID: 320-90622-7

Date Collected: 08/02/22 06:35

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014		0.00069	0.00010	ug/m3 (Air)		08/09/22 06:15	08/10/22 15:02	1
Copper	0.034		0.0014	0.00010	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:59	1
Manganese	0.0042		0.00069	0.000096	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.29	0.29	ug/m3			08/04/22 15:30	1

Client Sample ID: GES_TSP062722-69

Lab Sample ID: 320-90622-8

Date Collected: 08/02/22 06:35

Matrix: Air

Date Received: 08/03/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.7364		0.2904	0.2904	ug/m3 (Air)			08/04/22 14:30	1

QC Sample Results

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

Job ID: 320-90622-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-608117/1-B
Matrix: Air
Analysis Batch: 608588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:33	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		08/09/22 06:15	08/09/22 16:33	1

Lab Sample ID: MB 320-608117/1-B
Matrix: Air
Analysis Batch: 608694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		08/09/22 06:15	08/10/22 14:36	1

Lab Sample ID: LCS 320-608117/2-B
Matrix: Air
Analysis Batch: 608588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.240	0.236		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.246		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCS 320-608117/2-B
Matrix: Air
Analysis Batch: 608694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.229		ug/m3 (Air)		95	86 - 111

Lab Sample ID: LCSD 320-608117/3-B
Matrix: Air
Analysis Batch: 608588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 608124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.240	0.237		ug/m3 (Air)		99	85 - 110	0	15
Manganese	0.240	0.246		ug/m3 (Air)		102	88 - 110	0	15

Lab Sample ID: LCSD 320-608117/3-B
Matrix: Air
Analysis Batch: 608694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 608124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.243		ug/m3 (Air)		101	86 - 111	6	15

QC Association Summary

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

Job ID: 320-90622-1

Metals

Pre Prep Batch: 608117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-1	GES_PM061322-66	Total/NA	Air	Filter to Air	
320-90622-3	GES_PM061322-67	Total/NA	Air	Filter to Air	
320-90622-5	GES_PM061322-68	Total/NA	Air	Filter to Air	
320-90622-7	GES_PM061322-69	Total/NA	Air	Filter to Air	
MB 320-608117/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-608117/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-608117/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 608124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-1	GES_PM061322-66	Total/NA	Air	3050B	608117
320-90622-3	GES_PM061322-67	Total/NA	Air	3050B	608117
320-90622-5	GES_PM061322-68	Total/NA	Air	3050B	608117
320-90622-7	GES_PM061322-69	Total/NA	Air	3050B	608117
MB 320-608117/1-B	Method Blank	Total/NA	Air	3050B	608117
LCS 320-608117/2-B	Lab Control Sample	Total/NA	Air	3050B	608117
LCSD 320-608117/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	608117

Analysis Batch: 608588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-1	GES_PM061322-66	Total/NA	Air	6020	608124
320-90622-3	GES_PM061322-67	Total/NA	Air	6020	608124
320-90622-5	GES_PM061322-68	Total/NA	Air	6020	608124
320-90622-7	GES_PM061322-69	Total/NA	Air	6020	608124
MB 320-608117/1-B	Method Blank	Total/NA	Air	6020	608124
LCS 320-608117/2-B	Lab Control Sample	Total/NA	Air	6020	608124
LCSD 320-608117/3-B	Lab Control Sample Dup	Total/NA	Air	6020	608124

Analysis Batch: 608694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-1	GES_PM061322-66	Total/NA	Air	6020	608124
320-90622-3	GES_PM061322-67	Total/NA	Air	6020	608124
320-90622-5	GES_PM061322-68	Total/NA	Air	6020	608124
320-90622-7	GES_PM061322-69	Total/NA	Air	6020	608124
MB 320-608117/1-B	Method Blank	Total/NA	Air	6020	608124
LCS 320-608117/2-B	Lab Control Sample	Total/NA	Air	6020	608124
LCSD 320-608117/3-B	Lab Control Sample Dup	Total/NA	Air	6020	608124

General Chemistry

Pre Prep Batch: 608684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-2	GES_TSP062722-66	Total/NA	Air	Filter to Air	
320-90622-4	GES_TSP062722-67	Total/NA	Air	Filter to Air	
320-90622-6	GES_TSP062722-68	Total/NA	Air	Filter to Air	
320-90622-8	GES_TSP062722-69	Total/NA	Air	Filter to Air	

Analysis Batch: 608718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-1	GES_PM061322-66	Total/NA	Air	PM10	
320-90622-3	GES_PM061322-67	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-90622-1

General Chemistry (Continued)

Analysis Batch: 608718 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-5	GES_PM061322-68	Total/NA	Air	PM10	
320-90622-7	GES_PM061322-69	Total/NA	Air	PM10	

Analysis Batch: 608719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-90622-2	GES_TSP062722-66	Total/NA	Air	40CFR50 App B	608684
320-90622-4	GES_TSP062722-67	Total/NA	Air	40CFR50 App B	608684
320-90622-6	GES_TSP062722-68	Total/NA	Air	40CFR50 App B	608684
320-90622-8	GES_TSP062722-69	Total/NA	Air	40CFR50 App B	608684

Lab Chronicle

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

Job ID: 320-90622-1

Client Sample ID: GES_PM061322-66
Date Collected: 07/28/22 14:32
Date Received: 08/03/22 09:55

Lab Sample ID: 320-90622-1
Matrix: Air

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					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608588	08/09/22 16:43	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608694	08/10/22 14:46	JMD	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0044 g	608718	08/04/22 15:30	JMD	EET SAC

Client Sample ID: GES_TSP062722-66
Date Collected: 07/28/22 14:32
Date Received: 08/03/22 09:55

Lab Sample ID: 320-90622-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			608719	08/04/22 14:30	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608684	08/10/22 15:28	JMD	EET SAC

Client Sample ID: GES_PM061322-67
Date Collected: 07/28/22 14:25
Date Received: 08/03/22 09:55

Lab Sample ID: 320-90622-3
Matrix: Air

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					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608588	08/09/22 16:52	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608694	08/10/22 14:55	JMD	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0039 g	608718	08/04/22 15:30	JMD	EET SAC

Client Sample ID: GES_TSP062722-67
Date Collected: 07/28/22 14:25
Date Received: 08/03/22 09:55

Lab Sample ID: 320-90622-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			608719	08/04/22 14:30	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608684	08/10/22 15:28	JMD	EET SAC

Lab Chronicle

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

Job ID: 320-90622-1

Client Sample ID: GES_PM061322-68

Lab Sample ID: 320-90622-5

Date Collected: 08/02/22 06:44

Matrix: Air

Date Received: 08/03/22 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					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608588	08/09/22 16:56	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608694	08/10/22 14:59	JMD	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0268 g	608718	08/04/22 15:30	JMD	EET SAC

Client Sample ID: GES_TSP062722-68

Lab Sample ID: 320-90622-6

Date Collected: 08/02/22 06:44

Matrix: Air

Date Received: 08/03/22 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			608719	08/04/22 14:30	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608684	08/10/22 15:28	JMD	EET SAC

Client Sample ID: GES_PM061322-69

Lab Sample ID: 320-90622-7

Date Collected: 08/02/22 06:35

Matrix: Air

Date Received: 08/03/22 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					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608588	08/09/22 16:59	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608117	08/09/22 04:38	NIM	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	608124	08/09/22 06:15	NIM	EET SAC
Total/NA	Analysis	6020		1			608694	08/10/22 15:02	JMD	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0236 g	608718	08/04/22 15:30	JMD	EET SAC

Client Sample ID: GES_TSP062722-69

Lab Sample ID: 320-90622-8

Date Collected: 08/02/22 06:35

Matrix: Air

Date Received: 08/03/22 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			608719	08/04/22 14:30	JMD	EET SAC
Total/NA	Pre Prep	Filter to Air					608684	08/10/22 15:28	JMD	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: 320-90622-1

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
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- 10
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- 12
- 13
- 14

Method Summary

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

Job ID: 320-90622-1

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: 320-90622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-90622-1	GES_PM061322-66	Air	07/28/22 14:32	08/03/22 09:55
320-90622-2	GES_TSP062722-66	Air	07/28/22 14:32	08/03/22 09:55
320-90622-3	GES_PM061322-67	Air	07/28/22 14:25	08/03/22 09:55
320-90622-4	GES_TSP062722-67	Air	07/28/22 14:25	08/03/22 09:55
320-90622-5	GES_PM061322-68	Air	08/02/22 06:44	08/03/22 09:55
320-90622-6	GES_TSP062722-68	Air	08/02/22 06:44	08/03/22 09:55
320-90622-7	GES_PM061322-69	Air	08/02/22 06:35	08/03/22 09:55
320-90622-8	GES_TSP062722-69	Air	08/02/22 06:35	08/03/22 09:55

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- 14

**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT080222AIRE



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

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



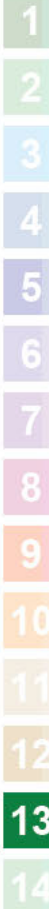
Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	07/28/2022	1432	KT	X	X		AMSE1	N2	0.00 0.00	1	VOLUME: 561.14 (M3)
2	A	07/28/2022	1432	KT	X	X		AMSE1	N2	0.00 0.00	1	VOLUME: 537.11 (M3)
3	A	07/28/2022	1425	KT	X	X		AMSE2	N2	0.00 0.00	1	VOLUME: 568.09 (M3)
4	A	07/28/2022	1425	KT	X	X		AMSE2	N2	0.00 0.00	1	VOLUME: 563.42 (M3)
5	A	08/02/2022	0644	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1699.52 (M3)
6	A	08/02/2022	0644	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1637.04 (M3)
7	A	08/02/2022	0635	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1744.41 (M3)
8	A	08/02/2022	0635	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1721.61 (M3)
9								[Redacted]				
10												

Turnaround Time: NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	8/2/22	1600	[Redacted]	8/2/22	1600	Shipping Date: 8/2/2022 / FedEx 7775 5127 3050
				9-3-22	0955	Received by Laboratory: (Signature, Date, Time) & condition

GES Navy COC Field
August 02, 2022

193



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-90622-1

Login Number: 90622

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	1495340
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	

