



**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

April 1<sup>st</sup>, 2022 through April 30<sup>th</sup>, 2022

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**Prepared for:**

**Department of the Navy  
Naval Facilities Engineering Systems Command Southwest  
BRAC PMO West  
33000 Nixie Way, Bldg, 50  
San Diego, CA 92147**

**Prepared by:**



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

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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 <sup>3</sup> .....	<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 <sup>3</sup> .....	<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 <sup>3</sup> .....	<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 April 1st through April 30th, 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 Bayview Manor - KCASANFR1775 published at Weather Underground ([www.wunderground.com](http://www.wunderground.com)).

Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at [www.wunderground.com](http://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 <sup>3</sup>	Cal/OSHA PEL
PM10 <sup>a</sup>	5,000 $\mu\text{g}/\text{m}^3$	Cal/OSHA PEL
TSP	0.5 mg/m <sup>3</sup>	Basewide HPNS Level selected to minimize overall permissible dust release from sites
Copper	1.0 mg/m <sup>3</sup>	Cal/OSHA PEL
Lead	0.050 mg/m <sup>3</sup>	Cal/OSHA PEL
Manganese	0.200 mg/m <sup>3</sup>	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:**

<sup>a</sup> = 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/cm<sup>3</sup> = fibers per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m<sup>3</sup> = 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 theWeather Underground (wunderground.com) station Bayview Manor - KCASANFR1775.

Air Monitoring Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from April 1st through April 30th, 2022, during which Gilbane was grading and managing radiological screening yard pads, performing site maintenance, and transporting rock and debris. 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 April 1st through April 30th, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from April 1st through April 30<sup>th</sup>, 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 April 1st through April 30th, 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 April 1st through April 30th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from April 1st through April 30th, 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 during review that a second weight was not recorded by the laboratory to confirm the constant weight of the filters. No other data quality issues were noted. The data, as qualified, 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

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**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
4/4/2022	30.14	54.70	W
4/5/2022	30.14	56.03	WSW
4/6/2022	30.08	66.40	NE
4/7/2022	30.10	71.55	E
4/11/2022	30.02	49.04	W
4/12/2022	30.23	49.13	WNW
4/13/2022	30.18	52.06	WSW
4/14/2022	30.06	54.50	S
4/18/2022	30.03	56.69	S
4/19/2022	30.01	54.53	SW
4/20/2022	29.92	57.89	SSE
4/21/2022	29.93	56.55	SWW
4/25/2022	30.03	55.30	WSW
4/26/2022	29.98	53.24	W
4/27/2022	30.01	52.28	WSW
4/28/2022	30.08	53.24	W

**Notes:**

Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

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# **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 <sup>1</sup>	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm <sup>3</sup> )	Exceedance (Yes/No)
MSE01-040422	04/04/22	1	515	1030	4.0	<0.003	No
MSE02-040422	04/04/22	2	534	1068	8.5	0.004	No
MSE01-040522	04/05/22	1	532	1064	3.0	<0.003	No
MSE02-040522	04/05/22	2	540	1080	3.0	<0.002	No
MSE01-040622	04/06/22	1	540	1080	9.5	0.004	No
MSE02-040622	04/06/22	2	547	1094	13.0	0.006	No
MSE01-040722	04/07/22	1	433	866	7.0	0.004	No
MSE02-040722	04/07/22	2	429	858	4.0	<0.003	No
MSE01-041122	04/11/22	1	530	1060	2.5	<0.003	No
MSE02-041122	04/11/22	2	537	1074	7.5	0.003	No
MSE01-041222	04/12/22	1	525	1050	5.0	<0.003	No
MSE02-041222	04/12/22	2	529	1058	8.5	0.004	No
MSE01-041322	04/13/22	1	531	1062	2.0	<0.003	No
MSE02-041322	04/13/22	2	529	1058	2.5	<0.003	No
MSE01-041422	04/14/22	1	427	854	4.0	<0.003	No
MSE02-041422	04/14/22	2	436	872	0.0	<0.003	No
MSE01-041822	04/18/22	1	498	996	1.0	<0.003	No
MSE02-041822	04/18/22	2	521	1042	2.0	<0.003	No
MSE01-041922	04/19/22	1	554	1108	1.5	<0.002	No
MSE02-041922	04/19/22	2	555	1110	4.0	<0.002	No
MSE01-042022	04/20/22	1	546	1092	6.0	0.003	No
MSE02-042022	04/20/22	2	546	1092	0.0	<0.002	No
MSE01-042122	04/21/22	1	478	956	1.0	<0.003	No
MSE02-042122	04/21/22	2	486	972	0.5	<0.003	No
MSE01-042522	04/25/22	1	518	1036	4.5	<0.003	No
MSE02-042522	04/25/22	2	537	1074	8.0	0.004	No
MSE01-042622	04/26/22	1	537	1074	8.5	0.004	No
MSE02-042622	04/26/22	2	551	1102	10.5	0.005	No
MSE01-042722	04/27/22	1	529	1058	3.5	<0.003	No
MSE02-042722	04/27/22	2	523	1046	9.0	0.004	No
MSE01-042822	04/28/22	1	446	892	7.0	0.004	No
MSE02-042822	04/28/22	2	446	892	12.5	0.007	No

**Notes:**

<sup>1</sup>Sample "start" date indicates the date upon which sample collection began.

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

L = liter

min = minutes

fibers/cm<sup>3</sup> = fibers per cubic centimeter

< = below detection limit

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**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										
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (ug/m <sup>3</sup> )	Cal/OSHA PEL (ug/m <sup>3</sup> )	Exceedance (Yes/No)	HERO Action Level <sup>4</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANEPM030122-1822	1	04/05/2022	1727.17	0.022						
GILBANEPM030122-1823	2	04/05/2022	1728.57	0.026	0.0040	4.0	5,000	No	50	No
GILBANEPM030122-1824	1	04/06/2022	1720.30	0.041						
GILBANEPM030122-1825	2	04/06/2022	1712.46	0.037	-0.0040	-4.0	5,000	No	50	No
GILBANEPM030122-1820	1	4/7/2022	1754.97	0.035						
GILBANEPM030122-1821	2	4/7/2022	1747.24	0.031	0.0040	4.0	5,000	No	50	No
GILBANEPM030122-1826	1	04/07/2022 <sup>2</sup>	524.25	0.044						
GILBANEPM030122-1827	2	04/07/2022 <sup>2</sup>	522.65	0.037	0.0070	7.0	5,000	No	50	No
GILBANEPM030122-1828	1	04/12/2022	1722.45	0.041						
GILBANEPM030122-1829	2	04/12/2022	1714.91	0.027	-0.0140	-14.0	5,000	No	50	No
GILBANEPM030122-1830	1	04/13/2022 <sup>3</sup>	1739.71	0.015						
GILBANEPM030122-1831	2	4/13/2022	1731.45	0.019	0.0040	4.0	5,000	No	50	No
GILBANEPM030122-1832	1	04/14/2022	1684.17	0.014						
GILBANEPM030122-1833	2	04/14/2022	1734.83	0.014	0.0000	0.0	5,000	No	50	No
GILBANEPM030122-1834	1	04/14/2022 <sup>2</sup>	519.74	0.011						
GILBANEPM030122-1835	2	04/14/2022 <sup>2</sup>	520.96	0.0084	-0.0026	-2.6	5,000	No	50	No
GILBANEPM030122-1836	1	04/19/2022	1713.15	0.014						
GILBANEPM030122-1837	2	04/19/2022	1706.18	0.0089	-0.0051	-5.1	5,000	No	50	No
GILBANEPM030122-1838	1	04/20/2022	1763.61	0.016						
GILBANEPM030122-1839	2	04/20/2022	1752.64	0.0091	-0.0069	-6.9	5,000	No	50	No
GILBANEPM030122-1840	1	04/21/2022	1770.64	0.025						
GILBANEPM030122-1841	2	04/21/2022	1739.51	0.011	-0.0140	-14.0	5,000	No	50	No
GILBANEPM030122-1842	1	04/21/2022 <sup>2</sup>	583.10	0.014						
GILBANEPM030122-1843	2	04/21/2022 <sup>2</sup>	588.23	0.009	-0.0050	-5.0	5,000	No	50	No
GILBANEPM031522-1876	1	4/26/2022	1723.78	0.035 J						
GILBANEPM031522-1877	2	4/26/2022	1719.87	0.027 J	-0.0080	-8.0	5,000	No	50	No
GILBANEPM031522-1878	1	04/27/2022	1739.63	0.031 J						
GILBANEPM031522-1879	2	04/27/2022 <sup>3</sup>	1511.52	0.06 J	0.0290	29.0	5,000	No	50	No
GILBANEPM031522-1880	1	04/28/2022	1727.02	0.026 J						
GILBANEPM031522-1881	2	04/28/2022 <sup>3</sup>	1622.18	0.054 J	0.0280	28.0	5,000	No	50	No
GILBANEPM031522-1882	1	04/28/2022 <sup>2</sup>	527.48	0.031 J						
GILBANEPM031522-1883	2	04/28/2022 <sup>2</sup>	513.17	0.05 J	0.0190	19.0	5,000	No	50	No

**Notes:**

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

<sup>2</sup>Air sample was taken down during the afternoon after field activities ceased.

<sup>3</sup>Generator malfunction

<sup>4</sup>PM10 data is additionally compared to the recommended dust action level of 50 ug/m3 for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

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.

m<sup>3</sup> = cubic meters

mg/m<sup>3</sup> = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter smaller than 10 microns in diameter

ug/m<sup>3</sup> = micrograms per cubic meter

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# **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 <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANEPM030122-1822	1	04/05/2022	1727.17	0.000029	No	0.0000024	No	0.0000054	No
GILBANEPM030122-1823	2	04/05/2022	1728.57	0.00021	No	0.0000042	No	0.000009	No
GILBANEPM030122-1824	1	04/06/2022	1720.30	0.000088	No	0.0000031	No	0.000008	No
GILBANEPM030122-1825	2	04/06/2022	1712.46	0.00016	No	0.000003	No	0.0000067	No
GILBANEPM030122-1820	1	4/7/2022	1754.97	0.00025	No	0.0000053	No	0.000015	No
GILBANEPM030122-1821	2	4/7/2022	1747.24	0.00016	No	0.0000031	No	0.00001	No
GILBANEPM030122-1826	1	04/07/2022 <sup>2</sup>	524.25	0.00019	No	0.0000064	No	0.000026	No
GILBANEPM030122-1827	2	04/07/2022 <sup>2</sup>	522.65	0.00018	No	0.0000052	No	0.000019	No
GILBANEPM030122-1828	1	04/12/2022	1722.45	0.00011	No	0.0000098	No	0.000014	No
GILBANEPM030122-1829	2	04/12/2022	1714.91	0.00018	No	0.0000078	No	0.0000097	No
GILBANEPM030122-1830	1	04/13/2022 <sup>3</sup>	1739.71	0.000035	No	0.0000024	No	0.0000061	No
GILBANEPM030122-1831	2	4/13/2022	1731.45	0.00013	No	0.0000037	No	0.0000065	No
GILBANEPM030122-1832	1	04/14/2022	1684.17	0.000027	No	0.0000011	No	0.0000033	No
GILBANEPM030122-1833	2	04/14/2022	1734.83	0.00023	No	0.0000013	No	0.0000032	No
GILBANEPM030122-1834	1	04/14/2022 <sup>2</sup>	519.74	0.000042	No	0.0000017 J	No	0.0000038	No
GILBANEPM030122-1835	2	04/14/2022 <sup>2</sup>	520.96	0.00013	No	0.0000015 J	No	0.0000021 J	No
GILBANEPM030122-1836	1	04/19/2022	1713.15	0.00004	No	0.0000021	No	0.0000062	No
GILBANEPM030122-1837	2	04/19/2022	1706.18	0.000044	No	0.0000009	No	0.0000022	No
GILBANEPM030122-1838	1	04/20/2022	1763.61	0.000025	No	0.0000023	No	0.0000053	No
GILBANEPM030122-1839	2	04/20/2022	1752.64	0.000018	No	0.0000014	No	0.0000023	No
GILBANEPM030122-1840	1	04/21/2022	1770.64	0.000026	No	0.0000019	No	0.0000096	No
GILBANEPM030122-1841	2	04/21/2022	1739.51	0.0000093	No	0.00000052 J	No	0.0000018	No
GILBANEPM030122-1842	1	04/21/2022 <sup>2</sup>	583.10	0.000065	No	0.0000013 J	No	0.0000027	No
GILBANEPM030122-1843	2	04/21/2022 <sup>2</sup>	588.23	0.000023	No	0.00000087 J	No	0.0000018 J	No
GILBANEPM031522-1876	1	4/26/2022	1723.78	0.000052 J	No	0.0000041 J	No	0.0000098 J	No
GILBANEPM031522-1877	2	4/26/2022	1719.87	0.000016 J	No	0.0000053 J	No	0.0000084 J	No
GILBANEPM031522-1878	1	04/27/2022	1739.63	0.000013 J	No	0.0000018 J	No	0.0000052 J	No
GILBANEPM031522-1879	2	04/27/2022 <sup>3</sup>	1511.52	0.000064 J	No	0.000021 J	No	0.00002 J	No
GILBANEPM031522-1880	1	04/28/2022	1727.02	0.00002 J	No	0.0000025 J	No	0.0000055 J	No
GILBANEPM031522-1881	2	04/28/2022 <sup>3</sup>	1622.18	0.000059 J	No	0.000014 J	No	0.000018 J	No
GILBANEPM031522-1882	1	04/28/2022 <sup>2</sup>	527.48	0.00008 J	No	0.0000055 J	No	0.000013 J	No
GILBANEPM031522-1883	2	04/28/2022 <sup>2</sup>	513.17	0.00011 J	No	0.000024 J	No	0.00003 J	No

**Notes:**

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

<sup>2</sup>Air sample was taken down during the afternoon after field activities ceased.

<sup>3</sup>Generator malfunction

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

m<sup>3</sup> = cubic meters

mg/m<sup>3</sup> = milligrams per cubic meter

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

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**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				
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Basewide HPNS Level (mg/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANETSP030122-1822	1	04/05/2022	1642.13	0.0303874			
GILBANETSP030122-1823	2	04/05/2022	1723.08	0.0373749	0.007	0.5	No
GILBANETSP030122-1824	1	04/06/2022	1615.28	0.0542321			
GILBANETSP030122-1825	2	04/06/2022	1713.42	0.0479742	-0.006	0.5	No
GILBANETSP030122-1820	1	4/7/2022	1697.83	0.045941			
GILBANETSP030122-1821	2	4/7/2022	1747.28	0.0398906	0.006	0.5	No
GILBANETSP030122-1826	1	04/07/2022 <sup>2</sup>	499.84	0.0524168			
GILBANETSP030122-1827	2	04/07/2022 <sup>2</sup>	518.59	0.0543782	-0.002	0.5	No
GILBANETSP030122-1828	1	04/12/2022	1653.84	0.0419025			
GILBANETSP030122-1829	2	04/12/2022	1723.77	0.032777	-0.009	0.5	No
GILBANETSP030122-1830	1	04/13/2022	1661.59	0.0296102			
GILBANETSP030122-1831	2	04/13/2022 <sup>3</sup>	1730.65	0.0053737	-0.024	0.5	No
GILBANETSP030122-1832	1	04/14/2022	1661.18	0.0208286			
GILBANETSP030122-1833	2	04/14/2022	1704.82	0.0218205	0.001	0.5	No
GILBANETSP030122-1834	1	04/14/2022 <sup>2</sup>	497.57	0.0120586			
GILBANETSP030122-1835	2	04/14/2022 <sup>2</sup>	520.17	0.0138416	0.002	0.5	No
GILBANETSP030122-1836	1	04/19/2022	1635.91	0.0209058			
GILBANETSP030122-1837	2	04/19/2022	1720.22	0.0128472	-0.008	0.5	No
GILBANETSP030122-1838	1	04/20/2022	1689.67	0.0187019			
GILBANETSP030122-1839	2	04/20/2022	1776.12	0.0140193	-0.005	0.5	No
GILBANETSP030122-1840	1	04/21/2022	768.45	0.048279			
GILBANETSP030122-1841	2	04/21/2022	1743.85	0.0198412	-0.028	0.5	No
GILBANETSP030122-1842	1	04/21/2022 <sup>2</sup>	564.29	0.004962			
GILBANETSP030122-1843	2	04/21/2022 <sup>2</sup>	590.98	0.0121832	0.007	0.5	No
GILBANETSP031522-1876	1	4/26/2022	1668.01	0.0368703 J			
GILBANETSP031522-1877	2	4/26/2022	1718.85	0.049568 J	0.013	0.5	No
GILBANETSP031522-1878	1	04/27/2022	1664.31	0.0430809 J			
GILBANETSP031522-1879	2	04/27/2022 <sup>3</sup>	1509.90	0.0584807 J	0.015	0.5	No
GILBANETSP031522-1880	1	04/28/2022	1656.35	0.0391222 J			
GILBANETSP031522-1881	2	04/28/2022 <sup>3</sup>	1625.32	0.059496 J	0.020	0.5	No
GILBANETSP031522-1882	1	04/28/2022 <sup>2</sup>	503.20	0.0272258 J			
GILBANETSP031522-1883	2	04/28/2022 <sup>2</sup>	513.21	0.0576762 J	0.030	0.5	No

**Notes:**

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

<sup>2</sup>Air sample was taken down during the afternoon after field activities ceased.

<sup>3</sup>Generator malfunction

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

m<sup>3</sup> = cubic meters

mg/m<sup>3</sup> = milligrams per cubic meter

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**ATTACHMENT 6**  
**AIR SAMPLING RESULTS –**  
**PUBLIC EXPOSURE MONITORING**

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## AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information									Effluent Air Concentration				Sampling Period			Color Codes						
Contract / Task Order Number: N62473-17-D-0005 / F4332			Project Title / Location: Parcel E RA HPNS, SF, CA			Gilbane Project Number: J310000400			Radionuclide		Alpha	Beta		Air samples collected between 04 Apr 2022 and 28 Apr 2022			Value < 0.1 x Effluent Conc (i.e., < 10%)					
Information effective as of: 02 May 2022									Effluent Conc (µCi/ml)		9.E-13	6.E-12					Value > 0.1 x Effluent Conc (i.e., > 10%)					
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-0505	Perimeter	MSE01	PE09	60	4/4/22 6:55	4/4/22 16:00	545	3.3E+07	D	04/11/22	1	cpm	0.15	4.75	0.4	10.0	5.8E-15	1.4E-13	0.6%	2.3%	BCS	CB
AS-0506	Perimeter	MSE02	PE10	60	4/4/22 6:45	4/4/22 15:55	550	3.3E+07	D	04/11/22	1	cpm	0.15	4.85	0.4	10.3	5.7E-15	1.4E-13	0.6%	2.3%	BCS	CB
AS-0507	Perimeter	MSE01	PE09	60	4/5/22 4:25	4/5/22 16:05	700	4.2E+07	D	04/11/22	1	cpm	0.20	3.90	0.6	7.6	6.0E-15	8.2E-14	0.7%	1.4%	BCS	CB
AS-0508	Perimeter	MSE02	PE10	60	4/5/22 4:35	4/5/22 16:10	695	4.2E+07	D	04/11/22	1	cpm	0.20	4.20	0.6	8.5	6.0E-15	9.1E-14	0.7%	1.5%	BCS	CB
AS-0509	Perimeter	MSE01	PE09	60	4/6/22 3:55	4/6/22 16:03	728	4.4E+07	D	04/11/22	1	cpm	0.25	4.85	0.7	10.3	7.2E-15	1.1E-13	0.8%	1.8%	BCS	CB
AS-0510	Perimeter	MSE02	PE10	60	4/6/22 3:45	4/6/22 16:10	745	4.5E+07	D	04/11/22	1	cpm	0.25	4.55	0.7	9.4	7.0E-15	9.5E-14	0.8%	1.6%	BCS	CB
AS-0511	Perimeter	MSE01	PE11	60	4/7/22 4:10	4/7/22 14:23	613	3.7E+07	D	04/11/22	1	cpm	0.40	4.55	1.1	9.4	1.4E-14	1.2E-13	1.5%	1.9%	BCS	CB
AS-0512	Perimeter	MSE02	PE12	60	4/7/22 4:00	4/7/22 14:30	630	3.8E+07	D	04/11/22	1	cpm	0.25	5.25	0.7	11.4	8.3E-15	1.4E-13	0.9%	2.3%	BCS	CB
AS-0513	Perimeter	MSE01	PE11	60	4/11/22 6:50	4/11/22 16:09	559	3.4E+07	D	04/18/22	1	cpm	0.30	3.75	0.8	7.2	1.1E-14	9.6E-14	1.2%	1.6%	BCS	CB
AS-0514	Perimeter	MSE02	PE12	60	4/11/22 6:37	4/11/22 16:00	563	3.4E+07	D	04/18/22	1	cpm	0.15	4.70	0.4	9.9	5.6E-15	1.3E-13	0.6%	2.2%	BCS	CB
AS-0515	Perimeter	MSE01	PE11	60	4/12/22 4:30	4/12/22 16:00	690	4.1E+07	D	04/18/22	1	cpm	0.10	3.90	0.3	7.6	3.0E-15	8.3E-14	0.3%	1.4%	BCS	CB
AS-0516	Perimeter	MSE02	PE12	60	4/12/22 4:20	4/12/22 15:50	690	4.1E+07	D	04/18/22	1	cpm	0.05	4.95	0.1	10.6	1.5E-15	1.1E-13	0.2%	1.9%	BCS	CB
AS-0517	Perimeter	MSE01	PE11	60	4/13/22 4:25	4/13/22 15:50	685	4.1E+07	D	04/18/22	1	cpm	0.15	5.00	0.4	10.7	4.6E-15	1.2E-13	0.5%	2.0%	BCS	CB
AS-0518	Perimeter	MSE02	PE12	60	4/13/22 4:20	4/13/22 16:00	700	4.2E+07	D	04/18/22	1	cpm	0.00	5.05	0.0	10.8	0.0E+00	1.2E-13	0.0%	1.9%	BCS	CB
AS-0519	Perimeter	MSE01	PE11	60	4/14/22 4:00	4/14/22 14:50	650	3.9E+07	D	04/18/22	1	cpm	0.30	4.00	0.8	7.9	9.7E-15	9.1E-14	1.1%	1.5%	BCS	CB
AS-0520	Perimeter	MSE02	PE12	60	4/14/22 4:10	4/14/22 14:47	637	3.8E+07	D	04/18/22	1	cpm	0.30	5.70	0.8	12.7	9.8E-15	1.5E-13	1.1%	2.5%	BCS	CB
AS-0521	Perimeter	MSE01	PE11	60	4/18/22 6:35	4/18/22 16:00	565	3.4E+07	D	04/27/22	1	cpm	0.25	5.00	0.7	10.7	9.3E-15	1.4E-13	1.0%	2.4%	BCS	CB
AS-0522	Perimeter	MSE02	PE12	60	4/18/22 6:40	4/18/22 15:50	550	3.3E+07	D	04/27/22	1	cpm	0.20	4.80	0.6	10.1	7.6E-15	1.4E-13	0.8%	2.3%	BCS	CB
AS-0523	Perimeter	MSE01	PE11	60	4/19/22 4:15	4/19/22 15:55	700	4.2E+07	D	04/27/22	1	cpm	0.20	4.55	0.6	9.4	6.0E-15	1.0E-13	0.7%	1.7%	BCS	CB
AS-0524	Perimeter	MSE02	PE12	60	4/19/22 4:22	4/19/22 15:45	683	4.1E+07	D	04/27/22	1	cpm	0.35	4.60	1.0	9.6	1.1E-14	1.1E-13	1.2%	1.8%	BCS	CB
AS-0525	Perimeter	MSE01	PE11	60	4/20/22 4:17	4/20/22 15:36	679	4.1E+07	D	04/27/22	1	cpm	0.10	3.90	0.3	7.6	3.1E-15	8.4E-14	0.3%	1.4%	BCS	CB
AS-0526	Perimeter	MSE02	PE12	60	4/20/22 4:10	4/20/22 15:42	692	4.2E+07	D	04/27/22	1	cpm	0.05	4.00	0.1	7.9	1.5E-15	8.6E-14	0.2%	1.4%	BCS	CB
AS-0527	Perimeter	MSE01	PE11	60	4/21/22 4:05	4/21/22 15:00	655	3.9E+07	D	04/27/22	1	cpm	0.05	4.50	0.1	9.3	1.6E-15	1.1E-13	0.2%	1.8%	BCS	CB
AS-0528	Perimeter	MSE02	PE12	60	4/21/22 4:10	4/21/22 15:03	653	3.9E+07	D	04/27/22	1	cpm	0.10	4.00	0.3	7.9	3.2E-15	9.1E-14	0.4%	1.5%	BCS	CB
AS-0529	Perimeter	MSE01	PE11	60	4/25/22 6:45	4/25/22 15:55	550	3.3E+07	D	05/02/22	1	cpm	0.35	5.50	1.0	12.1	1.3E-14	1.7E-13	1.5%	2.8%	BCS	CB
AS-0530	Perimeter	MSE02	PE12	60	4/25/22 6:30	4/25/22 16:02	572	3.4E+07	D	05/02/22	1	cpm	0.60	3.65	1.7	6.9	2.2E-14	9.1E-14	2.4%	1.5%	BCS	CB
AS-0531	Perimeter	MSE01	PE11	60	4/26/22 6:22	4/26/22 15:50	568	3.4E+07	D	05/02/22	1	cpm	0.25	5.45	0.7	12.0	9.2E-15	1.6E-13	1.0%	2.6%	BCS	CB
AS-0532	Perimeter	MSE02	PE12	60	4/26/22 6:14	4/26/22 15:58	584	3.5E+07	D	05/02/22	1	cpm	0.05	5.35	0.1	11.7	1.8E-15	1.5E-13	0.2%	2.5%	BCS	CB
AS-0533	Perimeter	MSE01	PE11	60	4/27/22 4:15	4/27/22 15:38	683	4.1E+07	D	05/02/22	1	cpm	0.05	3.90	0.1	7.6	1.5E-15	8.4E-14	0.2%	1.4%	BCS	CB
AS-0534	Perimeter	MSE02	PE12	60	4/27/22 4:10	4/27/22 15:35	685	4.1E+07	D	05/02/22	1	cpm	0.20	4.30	0.6	8.7	6.1E-15	9.6E-14	0.7%	1.6%	BCS	CB
AS-0535	Perimeter	MSE01	PE11	60	4/28/22 4:10	4/28/22 13:57	587	3.5E+07	D	05/02/22	1	cpm	0.30	3.50	0.8	6.5	1.1E-14	8.3E-14	1.2%	1.4%	BCS	CB
AS-0536	Perimeter	MSE02	PE12	60	4/28/22 4:15	4/28/22 14:08	593	3.6E+07	D	05/02/22	1	cpm	0.40	4.00	1.1	7.9	1.4E-14	1.0E-13	1.6%	1.7%	BCS	CB

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# **ATTACHMENT 7**

## **LABORATORY REPORTS**

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# Laboratory Analysis Report

Job ID : 22040533



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

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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 : 04/06/2022 16:18  
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
MSE01-033122	3/31/2022 14:40	Cassette	22040533.01
MSE02-033122	3/31/2022 14:44	Cassette	22040533.02
MSE01-040422	4/4/2022 15:47	Cassette	22040533.03
MSE02-040422	4/4/2022 15:52	Cassette	22040533.04

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

Analyst: [REDACTED]

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

ab-q210-0321

4/13/2022



**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 4/13/2022

Job ID : 22040533  
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
22040533.01	MSE01-033122	03/31/2022	Area	2			460	920	100	2.0	2.548	< 0.003		04/13/22	[REDACTED]
22040533.02	MSE02-033122	03/31/2022	Area	2			473	946	100	6.0	7.643	0.003		04/13/22	[REDACTED]
22040533.03	MSE01-040422	04/04/2022	Area	2			515	1030	100	4	5.096	< 0.003		04/13/22	[REDACTED]
22040533.04	MSE02-040422	04/04/2022	Area	2			534	1068	100	8.5	10.828	0.004		04/13/22	[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 : <b>22040533</b>	Date Received : <b>04/06/2022</b>	Time Received : <b>4:18PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>24.1°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <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"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			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 cassette. ~EV 4/7/2022

Received by : ██████████

Check in by/date : ██████████ / 04/07/2022

ab-s005-0321

Phone : ██████████

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 4/05/2022  
 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:		
MSE01-033122	01A 3/31/2022	1440	NA	NA	1	AA	X	None		460
MSE02-033122	02A 3/31/2022	1444	NA	NA	1	AA	X	Filter		473
MSE01-040422	03A 4/04/2022	1547	NA	NA	1	AA	X			515
MSE02-040422	04A 4/04/2022	1552	NA	NA	1	AA	X			534

Job ID: 22040533



04/06/2021 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7764 8676 9918

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 4/5/22 Time: 1600 Received By/ Affiliation: Fedex 1 Date: 4/5/22 Time: 1600

Special Instructions: [Redacted] Gilbane FEDEX 4-6-22 16:18 [Redacted] 4-6-22 16:18

Send Results to: [Redacted]

Turnaround Time: Standard

24.1  
IR3  
W

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

SHIP DATE: 05APR22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4460  
BILL SENDER

TO  
A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

INV. REF: J31000.400.00.18.04  
PO. DEPT.

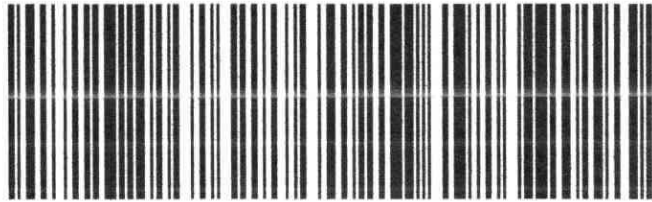


WED - 06 APR 4:30P  
STANDARD OVERNIGHT

TRK# 7764 8676 9918  
0201

UL HBYA

77029 TX-US IAH



56DU1Y1E3B6FE4A

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# Laboratory Analysis Report

Job ID : 22040818



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 : 04/08/2022 15:50  
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
MSE01-040522	4/5/2022 16:00	Cassette	22040818.01
MSE02-040522	4/5/2022 15:57	Cassette	22040818.02
MSE01-040622	4/6/2022 15:56	Cassette	22040818.03
MSE02-040622	4/6/2022 15:52	Cassette	22040818.04

[REDACTED]  
Released By: [REDACTED]  
Title: Project Manager

Analyst: [REDACTED]

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ab-q210-0321

4/18/2022





**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 # 30080**

Date 4/18/2022

Job ID : 22040818  
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
22040818.01	MSE01-040522	04/05/2022	Area	2			532	1064	100	3	3.822	< 0.003		04/18/22	[REDACTED]
22040818.02	MSE02-040522	04/05/2022	Area	2			540	1080	100	3	3.822	< 0.002		04/18/22	[REDACTED]
22040818.03	MSE01-040622	04/06/2022	Area	2			540	1080	100	9.5	12.102	0.004		04/18/22	[REDACTED]
22040818.04	MSE02-040622	04/06/2022	Area	2			547	1094	100	13.0	16.561	0.006		04/18/22	[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 : <b>22040818</b>	Date Received : <b>04/08/2022</b>	Time Received : <b>3:50PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>20.4°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1.	<b>Cooler Seal present and signed.</b>	X		
2.	<b>Sample(s) in a cooler.</b>		X	
3.	<b>If yes, ice in cooler.</b>		X	
4.	<b>Sample(s) received with chain-of-custody.</b>	X		
5.	<b>C-O-C signed and dated.</b>	X		
6.	<b>Sample(s) received with signed sample custody seal.</b>		X	
7.	<b>Sample containers arrived intact. (If No comment)</b>	X		
8.	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	<b>Samples were received in appropriate container(s)</b>	X		
10.	<b>Sample(s) were received with Proper preservative</b>			X
11.	<b>All samples were tagged or labeled.</b>	X		
12.	<b>Sample ID labels match C-O-C ID's.</b>	X		
13.	<b>Bottle count on C-O-C matches bottles found.</b>	X		
14.	<b>Sample volume is sufficient for analyses requested.</b>	X		
15.	<b>Samples were received with in the hold time.</b>	X		
16.	<b>VOA vials completely filled.</b>			X
17.	<b>Sample accepted.</b>	X		
18.	<b>Has client been contacted about sub-out</b>			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 as black cassettes. ~EV 4/8/2022

Received by : ██████████

Check in by/date : ██████████ / 04/08/2022

ab-s005-0321

Phone : ██████████

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 4/07/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	Container Type:		
								None	Filter		
01A MSE01-040522	4/05/2022	1600	NA	NA	1	AA	X				532
02A MSE02-040522	4/05/2022	1557	NA	NA	1	AA	X				540
03A MSE01-040622	4/06/2022	1556	NA	NA	1	AA	X				540
04A MSE02-040622	4/06/2022	1552	NA	NA	1	AA	X				547

TP

Job ID: 22040818



04/08/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7765 0825 3258			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date: <u>4/7/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>Fedex</u>	Date: <u>4/7/22</u> Time: <u>1600</u>
Special Instructions: _____	<u>Fedex</u>	<u>4/8/22</u>	<u>15:50</u>	<u>[Redacted]</u>	<u>4/8/22</u> <u>15:50</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					

20.4  
IR3  
W

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

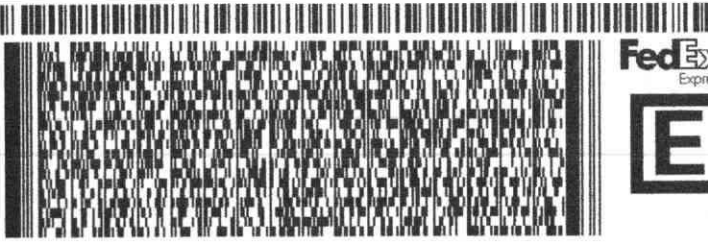
SHIP DATE: 07APR22  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4460  
BILL SENDER

TO  
A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000.400 00 18 04

INV. PO DEPT.



56D12BD9F9FE4A

FRI - 08 APR 4:30P

STANDARD OVERNIGHT

TRK# 7765 0825 3258  
0201

UL HBYA

TX-US 77029 IAH



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# Laboratory Analysis Report

Job ID : 22041270



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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 : 04/13/2022 14:58  
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-040722	4/7/2022 14:17	Cassette	22041270.01
MSE02-040722	4/7/2022 14:06	Cassette	22041270.02
MSE01-041122	4/11/2022 15:51	Cassette	22041270.03
MSE02-041122	4/11/2022 15:45	Cassette	22041270.04

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

Analyst: [REDACTED]

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ab-q210-0321

4/21/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
SAMPLING PERFORMED BY CLIENT  
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 30080**

Date 4/21/2022

Job ID : 22041270  
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
22041270.01	MSE01-040722	04/07/2022	Area	2			433	866	100	7	8.917	0.004		04/19/22	[REDACTED]
22041270.02	MSE02-040722	04/07/2022	Area	2			429	858	100	4.0	5.096	< 0.003		04/19/22	[REDACTED]
22041270.03	MSE01-041122	04/11/2022	Area	2			530	1060	100	2.5	3.185	< 0.003		04/19/22	[REDACTED]
22041270.04	MSE02-041122	04/11/2022	Area	2			537	1074	100	7.5	9.554	0.003		04/19/22	[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 : <b>22041270</b>	Date Received : <b>04/13/2022</b>	Time Received : <b>2:58PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>19.9°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <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"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			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 in black cassettes. ~EV 4/14/2022

Received by : ██████████

Check in by/date : ██████████ 04/14/2022

ab-s005-0321

Phone : ██████████

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 4/12/2022  
 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

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:	Container Type:		
							None	Filter		
01A MSE01-040722	4/07/2022	1417	NA	NA	1	AA	X		433	01A
02A MSE02-040722	4/07/2022	1406	NA	NA	1	AA	X		429	02A
03A MSE01-041122	4/11/2022	1551	NA	NA	1	AA	X		530	03A
04A MSE02-041122	4/11/2022	1545	NA	NA	1	AA	X		537	04A

Job ID: 22041270



04/13/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7765 5824 3435

Signature: [Redacted] Relinquished by/ Affiliation: [Redacted] Date: 4/12/22 Time: 1600 Received By/ Affiliation: Fedex Date: 4/12/22 Time: 1600

Special Instructions: [Redacted] Fedex 4/13/22 14:58 [Redacted] 4/13/22 14:58

Send Results to: [Redacted]

Turnaround Time: Standard

Temp: 19.9  
D: 123



ORIGINATOR: [REDACTED]  
200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

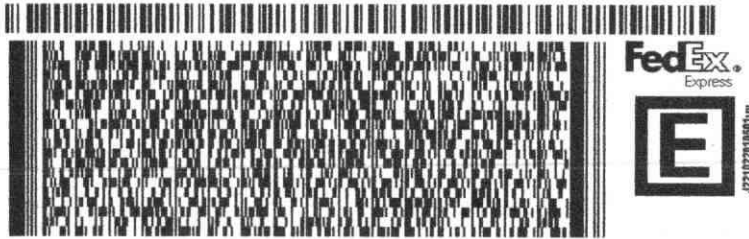
SHIP DATE: 12APR22  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4460  
BILL SENDER

TO [REDACTED]  
**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF: J31000 400 00 18 04

INV: [REDACTED]  
PO: [REDACTED] DEPT: [REDACTED]



56D.LJ(BDF9)FE4A

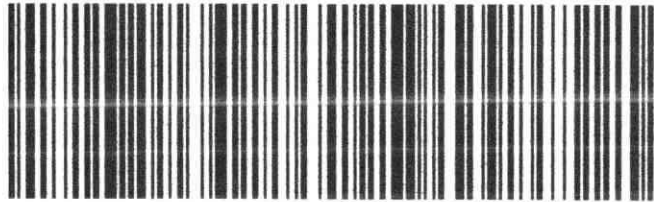
WED - 13 APR 4:30P

STANDARD OVERNIGHT

TRK# 7765 5824 3435  
0201

**UL HBYA**

77029  
TX-US IAH



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# Laboratory Analysis Report

Job ID : 22041486



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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 : 04/18/2022 13:56  
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 - 041222	4/12/2022 15:46	Cassette	22041486.01
MSE02 - 041222	4/12/2022 15:39	Cassette	22041486.02
MSE01 - 041322	4/13/2022 15:57	Cassette	22041486.03
MSE02 - 041322	4/13/2022 15:35	Cassette	22041486.04

[REDACTED]  
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

4/25/2022



**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 4/25/2022

Job ID : 22041486  
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
22041486.01	MSE01 - 041222	04/12/2022	Area	2			525	1050	100	5.0	6.369	< 0.003		04/21/22	[REDACTED]
22041486.02	MSE02 - 041222	04/12/2022	Area	2			529	1058	100	8.5	10.828	0.004		04/21/22	[REDACTED]
22041486.03	MSE01 - 041322	04/13/2022	Area	2			531	1062	100	2.0	2.548	< 0.003		04/21/22	[REDACTED]
22041486.04	MSE02 - 041322	04/13/2022	Area	2			529	1058	100	2.5	3.185	< 0.003		04/21/22	[REDACTED]

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

Sr Value

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

\*Fiber Range = # of Fibers / 100 Counts



# Sample Condition Checklist

A&B JobID : <b>22041486</b>	Date Received : <b>04/18/2022</b>	Time Received : <b>1:56PM</b>
Client Name : <b>GES - ASRC Industrial</b>		
Temperature : <b>25.0°C</b>	Sample pH : <b>NA</b>	
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>	
Perservative :		
	<b>Check Points</b>	<b>Yes No N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X
<b>2.</b>	<b>Sample(s) in a cooler.</b>	X
<b>3.</b>	<b>If yes, ice in cooler.</b>	X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X
<b>5.</b>	<b>C-O-C signed and dated.</b>	X
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>	X
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <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"/>	
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>	X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X
<b>16.</b>	<b>VOA vials completely filled.</b>	X
<b>17.</b>	<b>Sample accepted.</b>	X
<b>18.</b>	<b>Has client been contacted about sub-out</b>	X

**Comments : Include actions taken to resolve discrepancies/problem:**  
 No cooler was received, however samples are received in a box with a custody seal. ~EV 4/18/2022

Received by : ██████████

Check in by/date : ██████████ / 04/18/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 4/14/2022  
 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 MSE01-041222	4/12/2022	1546	NA	NA	1	AA	X			525
01A MSE02-041222	4/12/2022	1539	NA	NA	1	AA	X			529
03A MSE01-041322	4/13/2022	1557	NA	NA	1	AA	X			531
04A MSE02-041322	4/13/2022	1535	NA	NA	1	AA	X			529

01A  
01A  
03A  
04A

TP 4/14/22

**Job ID: 22041486**



04/18/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7765 7297 0740				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted] / Gilbane</u>	Date: <u>4/14/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>Fedex</u>	Date: <u>4/14/22</u>	Time: <u>1600</u>
Special Instructions: _____	<u>Fedex</u>	<u>4/18/22</u>	<u>13:56</u>	<u>[Redacted]</u>	<u>4/18/22</u>	<u>13:56</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

temp 25.0° EAST 3 SW

22-42 IRB W



# Laboratory Analysis Report

Job ID : 22041820



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 : 04/20/2022 15:01  
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
MSE01-041422	4/14/2022 14:12	Cassette	22041820.01
MSE02-041422	4/14/2022 14:06	Cassette	22041820.02
MSE01-041822	4/18/2022 15:24	Cassette	22041820.03
MSE02-041822	4/18/2022 15:32	Cassette	22041820.04

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

Analyst: [REDACTED]

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ab-q210-0321

4/27/2022



**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 # 30080**

Date 4/27/2022

Job ID : 22041820  
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
22041820.01	MSE01-041422	04/14/2022	Area	2			427	854	100	4	5.096	< 0.003		04/25/22	[REDACTED]
22041820.02	MSE02-041422	04/14/2022	Area	2			436	872	100	0	0.000	< 0.003		04/25/22	[REDACTED]
22041820.03	MSE01-041822	04/18/2022	Area	2			498	996	100	1	1.274	< 0.003		04/25/22	[REDACTED]
22041820.04	MSE02-041822	04/18/2022	Area	2			521	1042	100	2	2.548	< 0.003		04/25/22	[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 : <b>22041820</b>	Date Received : <b>04/20/2022</b>	Time Received : <b>3:01PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>23.5°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <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"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			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 4/20/2022

Received by : ██████████

Check in by/date : ██████████ / 04/20/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



# 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: A&B Labs 4/19/2022  
 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			
01A MSE01-041422	4/14/2022	1412	NA	NA	1	AA	X			427
07A MSE02-041422	4/14/2022	1406	NA	NA	1	AA	X			436
03A MSE01-041822	4/18/2022	1524	NA	NA	1	AA	X			498
04A MSE02-041822	4/18/2022	1532	NA	NA	1	AA	X			521

TP

## Job ID: 22041820



04/20/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7766 0815 8065				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[Redacted] / Gilbane</u>	<u>4/19/22</u>	<u>1600</u>	<u>Fedex</u>	<u>4/19/22</u>	<u>1600</u>
Send Results to: <u>[Redacted]</u>	<u>Fedex</u>	<u>4/20/22</u>	<u>15:01</u>	<u>[Redacted]</u>	<u>4/20/22</u>	<u>15:07</u>
Turnaround Time: <u>Standard</u>						

235  
IR3  
W

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 19APR22  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4460

BILL SENDER

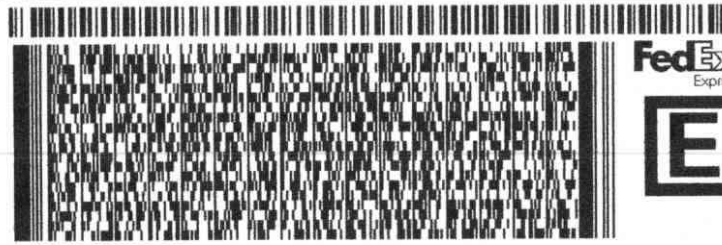
TO [REDACTED]

**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF: J31000.400.00.18.04

INV. PO. DEPT.



56D.L2BD9JFE4A

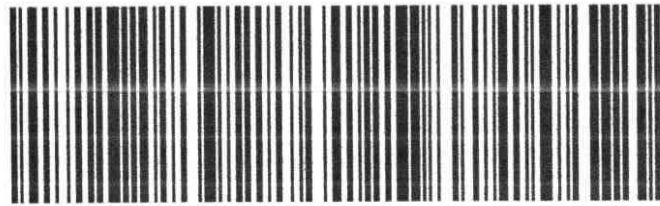
WED - 20 APR 4:30P

STANDARD OVERNIGHT

TRK# 7766 0815 8065  
0201

**UL HBYA**

TX-US 77029 IAH



**After printing this label:**

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

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Date: 4/19/22  
Signature: [Handwritten Signature]

# Laboratory Analysis Report

Job ID : 22042099



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

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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 : 04/25/2022 09:29  
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
MSE01-041922	4/19/2022 15:49	Cassette	22042099.01
MSE02-041922	4/19/2022 15:40	Cassette	22042099.02
MSE01-042022	4/20/2022 16:00	Cassette	22042099.03
MSE02-042022	4/20/2022 15:50	Cassette	22042099.04

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

Analyst: [REDACTED]

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ab-q210-0321

5/2/2022



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

Date 5/2/2022

Job ID : 22042099  
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
22042099.01	MSE01-041922	04/19/2022	Area	2			554	1108	100	1.5	1.911	< 0.002		05/02/22	[REDACTED]
22042099.02	MSE02-041922	04/19/2022	Area	2			555	1110	100	4.0	5.096	< 0.002		05/02/22	[REDACTED]
22042099.03	MSE01-042022	04/20/2022	Area	2			546	1092	100	6.0	7.643	0.003		05/02/22	[REDACTED]
22042099.04	MSE02-042022	04/20/2022	Area	2			546	1092	100	0	0.000	< 0.002		05/02/22	[REDACTED]

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

Sr Value

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

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22042099</b>	Date Received : <b>04/25/2022</b>	Time Received : <b>9:29AM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>21.3°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <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"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			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. ~JE 04/25/22

Received by : ██████████

Check in by/date : ██████████ / 04/25/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs 4/21/2022  
 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: 22042099**



04/25/2022 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:		
MSE01-041922	4/19/2022	1549	NA	NA	1	AA	X	None		554 01A
MSE02-041922	4/19/2022	1540	NA	NA	1	AA	X	None		555 02A
MSE01-042022	4/20/2022	1600	NA	NA	1	AA	X	Filter		546 03A
MSE02-042022	4/20/2022	1550	NA	NA	1	AA	X	Filter		546 04A

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7766 3534 7550

Signature: [Redacted] Relinquished By/Amiation: [Redacted] Date: 4/21/22 Time: 1600 Received By/ Affiliation: FedEx Date: 4/21/22 Time: 1600

Special Instructions: None [Redacted] / Gilbane [Redacted] 0 FEDEX [Redacted] 4/25/22 0929

Send Results to: [Redacted]

Turnaround Time: Standard

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 21APR22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4460

BILL SENDER

TO [REDACTED]

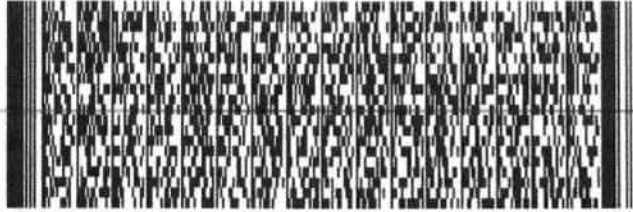
**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF J31000.400.00.18.04

INV  
PO:

DEPT



**FedEx**  
Express



J221022010481W

56D,02BCF9FE4A

**FRI - 22 APR 4:30P**

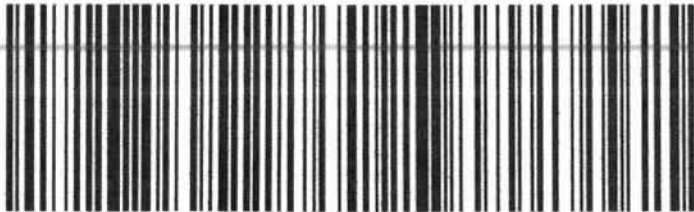
**STANDARD OVERNIGHT**

TRK# 7766 3534 7550  
0201

**UL HBYA**

**77029**

TX-US **IAH**



**CUSTODY SEAL**

Handwritten signature and date: 4/21/22

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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# Laboratory Analysis Report

Job ID : 22042569



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 : 04/27/2022 14:44  
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-042122	4/21/2022 15:05	Cassette	22042569.01
MSE02-042122	4/21/2022 15:01	Cassette	22042569.02
MSE01-042522	4/25/2022 15:49	Cassette	22042569.03
MSE02-042522	4/25/2022 15:52	Cassette	22042569.04

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

Analyst: [REDACTED]

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ab-q210-0321

5/4/2022



**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 # 30080**

Date 5/4/2022

Job ID : 22042569  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400								Attn:				
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22042569.01	MSE01-042122	04/21/2022	Area	2			478	956	100	1	1.274	< 0.003		05/02/22	█
22042569.02	MSE02-042122	04/21/2022	Area	2			486	972	100	0.5	0.637	< 0.003		05/02/22	█
22042569.03	MSE01-042522	04/25/2022	Area	2			518	1036	100	4.5	5.732	< 0.003		05/02/22	█
22042569.04	MSE02-042522	04/25/2022	Area	2			537	1074	100	8.0	10.191	0.004		05/02/22	█

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 : <b>22042569</b>	Date Received : <b>04/27/2022</b>	Time Received : <b>2:44PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>18.3°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <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"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			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. ~JE 04/27/22

Received by : ██████████

Check in by/date : ██████████ / 04/27/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 4/26/2022  
 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:		
MSE01-042122	4/21/2022	1505	NA	NA	1	AA	X	None		478 01A
MSE02-042122	4/21/2022	1501	NA	NA	1	AA	X	None		486 02A
MSE01-042522	4/25/2022	1549	NA	NA	1	AA	X	None		518 03A
MSE02-042522	4/25/2022	1552	NA	NA	1	AA	X	None		537 04A

Job ID: 22042569



04/27/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7766 8034 8798

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] / Gilbane Date: 4/26/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 4/26/22 Time: 1600

Special Instructions: None FEDEX Date: 04/27/22 Time: 1444

Send Results to: [Redacted]

Turnaround Time: Standard 18.3°C 1R3

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 26APR22  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4490

BILL SENDER

TO [REDACTED]

**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF: J31000 400 00 18 04

INV PO DEPT



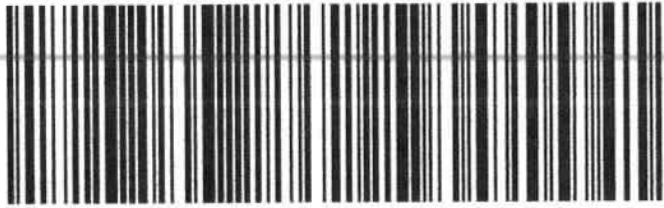
577LZ6DF9FE4A

WED - 27 APR 4:30P  
STANDARD OVERNIGHT

TRK# 7766 8034 8798  
0201

**UL HBYA**

TX-US 77029  
IAH



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**CUSTODY SEAL**



ENVIRONMENTAL SAMPLING SUPPLY  
www.essvial.com 800-233-8425

Date: 4/24/22  
Signature: [Handwritten Signature]

# Laboratory Analysis Report

Job ID : 22042960



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 : 04/29/2022 15:37  
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
MSE01-042622	4/26/2022 15:58	Cassette	22042960.01
MSE02-042622	4/26/2022 16:00	Cassette	22042960.02
MSE01-042722	4/27/2022 15:42	Cassette	22042960.03
MSE02-042722	4/27/2022 15:51	Cassette	22042960.04



Title: Vice President Operations

Analyst: [REDACTED]



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ab-q210-0321

5/6/2022



**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 5/6/2022

Job ID : 22042960  
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
22042960.01	MSE01-042622	04/26/2022	Area	2			537	1074	100	8.5	10.828	0.004		05/06/22	[REDACTED]
22042960.02	MSE02-042622	04/26/2022	Area	2			551	1102	100	10.5	13.376	0.005		05/06/22	[REDACTED]
22042960.03	MSE01-042722	04/27/2022	Area	2			529	1058	100	3.5	4.459	< 0.003		05/06/22	[REDACTED]
22042960.04	MSE02-042722	04/27/2022	Area	2			523	1046	100	9.0	11.465	0.004		05/06/22	[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 : <b>22042960</b>	Date Received : <b>04/29/2022</b>	Time Received : <b>3:37PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>23.1°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <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"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X

**Comments : Include actions taken to resolve discrepancies/problem:**  
 Black Cassettes. No cooler was received; however, sample are received in a box with custody seal. ~JE 04/29/22

Received by : ██████████

Check in by/date : ██████████ / 04/29/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com





# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 4/28/2022  
 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

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Special Instructions/Comments Total Time (min)
							Asbestos	Preservative	
MSE01-042622	4/26/2022	1558	NA	NA	1	AA	X		537 01A
MSE02-042622	4/26/2022	1600	NA	NA	1	AA	X		551 02A
MSE01-042722	4/27/2022	1542	NA	NA	1	AA	X		529 03A
MSE02-042722	4/27/2022	1551	NA	NA	1	AA	X		523 04A

Job ID: 22042960  
  
 04/29/2022 GES - ASRC Industrial ACH

Flow Rate = 2 L/min  
 Special Instructions/Comments  
 Total Time (min)

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7767 0594 7902				
Signature: <u>[Redacted]</u>	Relinquish: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>None</u>	<u>[Redacted]</u> Gilbane	<u>4/28/22</u>	<u>1600</u>	<u>[Redacted]</u>	<u>4/29/22</u>	<u>1537</u>
Send Results to: <u>[Redacted]</u>	<u>[Redacted]</u> U FEDER					
Turnaround Time: <u>Standard</u>						

23.10C 1R3

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

SHIP DATE: 28APR22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4490

BILL SENDER

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

REF: J31000 400 00 18 04

INV  
PO

DEPT



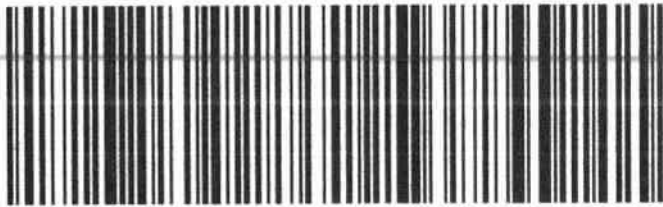
57742/EDF5/FE4A

TRK# 7767 0594 7902  
0201

FRI - 29 APR 4:30P  
STANDARD OVERNIGHT

**UL HBYA**

TX-US 77029  
IAH



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Date: 4/28/22  
Signature: [Handwritten Signature]

# Laboratory Analysis Report

Job ID : 22050377



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 : 05/04/2022 14:51  
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
MSE01-042822	4/28/2022 14:11	Cassette	22050377.01
MSE02-042822	4/28/2022 14:03	Cassette	22050377.02
MSE01-050222	5/2/2022 15:49	Cassette	22050377.03
MSE02-050222	5/2/2022 15:37	Cassette	22050377.04

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

Analyst: [REDACTED]

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ab-q210-0321

5/11/2022



**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 5/11/2022

Job ID : 22050377  
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
22050377.01	MSE01-042822	04/28/2022	Area	2			446	892	100	7	8.917	0.004		05/06/22	[REDACTED]
22050377.02	MSE02-042822	04/28/2022	Area	2			446	892	100	12.5	15.924	0.007		05/06/22	[REDACTED]
22050377.03	MSE01-050222	05/02/2022	Area	2			525	1050	100	2	2.548	< 0.003		05/06/22	[REDACTED]
22050377.04	MSE02-050222	05/02/2022	Area	2			529	1058	100	65.0	82.803	0.030		05/06/22	[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 : <b>22050377</b>		Date Received : <b>05/04/2022</b>	Time Received : <b>2:51PM</b>									
Client Name : <b>GES - ASRC Industrial</b>												
Temperature : <b>19.8°C</b>		Sample pH : <b>NA</b>										
Thermometer ID : <b>IR3</b>		pH Paper ID : <b>NA</b>										
Perservative :												
	<b>Check Points</b>			<b>Yes</b>	<b>No</b>	<b>N/A</b>						
<b>1.</b>	<b>Cooler Seal present and signed.</b>			X								
<b>2.</b>	<b>Sample(s) in a cooler.</b>				X							
<b>3.</b>	<b>If yes, ice in cooler.</b>					X						
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>			X								
<b>5.</b>	<b>C-O-C signed and dated.</b>			X								
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>				X							
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>			X								
<b>8.</b>	<b>Matrix:</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>
		<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"/>
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>			X								
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>					X						
<b>11.</b>	<b>All samples were tagged or labeled.</b>			X								
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>			X								
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>			X								
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>			X								
<b>15.</b>	<b>Samples were received with in the hold time.</b>			X								
<b>16.</b>	<b>VOA vials completely filled.</b>					X						
<b>17.</b>	<b>Sample accepted.</b>			X								
<b>18.</b>	<b>Has client been contacted about sub-out</b>					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 5/4/2022

Received by : ██████████

Check in by/date : ██████████ / 05/04/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/03/2022  
 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	Filter		
MSE01-042822	4/28/2022	1411	NA	NA	1	AA	X			446
MSE02-042822	4/28/2022	1403	NA	NA	1	AA	X			446
MSE01-050222	5/02/2022	1549	NA	NA	1	AA	X			525
MSE02-050222	5/02/2022	1537	NA	NA	1	AA	X			529

Job ID: 22050377



05/04/2022 GES - ASRC Industrial ACH

TP 5/3/22

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7767 4706 1540

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] / Gilbane Date: 5/3/22 Time: 1600 Received By/ Affiliation: Fedex Date: 5/3/22 Time: 1600

Special Instructions: [Redacted] FEDEX 5-4-22 14:51 [Redacted] 5-4-22 14:51

Send Results to: [Redacted]

Turnaround Time: Standard

19.8%  
IR3  
W

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 03MAY22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4490

BILL SENDER

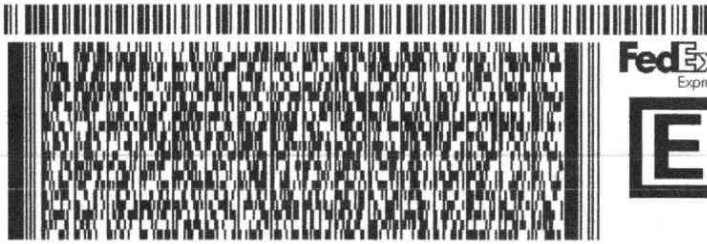
TO [REDACTED]

**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF J31000.400.00.18.04

INV. PO DEPT.



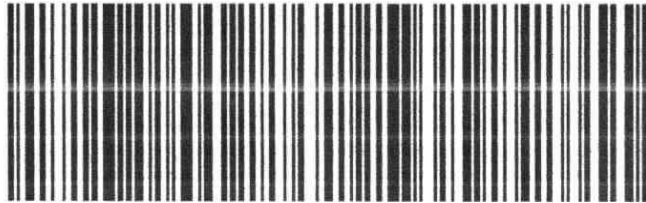
577J51BD6JFE4A

**WED - 04 MAY 4:30P**  
**STANDARD OVERNIGHT**

TRK# 7767 4706 1540  
0201

**UL HBYA**

77029  
TX-US IAH



CUSTOMER



**CUSTOMER SEAL**

**After printing this label:**

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

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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## ANALYTICAL REPORT

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

Laboratory Job ID: 320-86524-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

[REDACTED]

[REDACTED]

Authorized for release by:  
4/15/2022 5:20:31 PM

[REDACTED]

[REDACTED]

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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





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# Definitions/Glossary

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

Job ID: 320-86524-1

## 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: 320-86524-1

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**Job ID: 320-86524-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-86524-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/6/2022 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 18.5° C.

**Metals**

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

- 1
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# Detection Summary

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

Job ID: 320-86524-1

## Client Sample ID: GILBANEPM030122-1822

## Lab Sample ID: 320-86524-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0024		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0054	B	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1822

## Lab Sample ID: 320-86524-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.3874		0.3045	0.3045	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1823

## Lab Sample ID: 320-86524-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0042		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.21		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0090	B	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	26		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1823

## Lab Sample ID: 320-86524-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	37.3749		0.2902	0.2902	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: 320-86524-1

Client Sample ID: GILBANEPM030122-1822

Lab Sample ID: 320-86524-1

Date Collected: 04/05/22 07:10

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024		0.00069	0.00010	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:12	1
Copper	0.029		0.0014	0.00010	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:12	1
Manganese	0.0054	B	0.00069	0.000097	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:12	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.29	0.29	ug/m3			04/13/22 09:35	1

Client Sample ID: GILBANETSP030122-1822

Lab Sample ID: 320-86524-2

Date Collected: 04/05/22 07:10

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.3874		0.3045	0.3045	ug/m3 (Air)			04/13/22 09:35	1

Client Sample ID: GILBANEPM030122-1823

Lab Sample ID: 320-86524-3

Date Collected: 04/05/22 06:58

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0042		0.00069	0.00010	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:15	1
Copper	0.21		0.0014	0.00010	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:15	1
Manganese	0.0090	B	0.00069	0.000097	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:15	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	26		0.29	0.29	ug/m3			04/13/22 09:35	1

Client Sample ID: GILBANETSP030122-1823

Lab Sample ID: 320-86524-4

Date Collected: 04/05/22 06:58

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.3749		0.2902	0.2902	ug/m3 (Air)			04/13/22 09:35	1

# QC Sample Results

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

Job ID: 320-86524-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-580364/1-B**  
**Matrix: Air**  
**Analysis Batch: 580582**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 580366**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:50	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:50	1
Manganese	0.000203	J	0.0012	0.00017	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:50	1

**Lab Sample ID: LCS 320-580364/2-B**  
**Matrix: Air**  
**Analysis Batch: 580582**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 580366**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Lower	Upper
Lead	0.240	0.244		ug/m3 (Air)		102	86 - 111	
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110	
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110	

**Lab Sample ID: LCSD 320-580364/3-B**  
**Matrix: Air**  
**Analysis Batch: 580582**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 580366**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
							Lower	Upper	RPD	Limit
Lead	0.240	0.247		ug/m3 (Air)		103	86 - 111	1	15	
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	5	15	
Manganese	0.240	0.248		ug/m3 (Air)		103	88 - 110	4	15	

# QC Association Summary

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

Job ID: 320-86524-1

## Metals

### Pre Prep Batch: 580364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86524-1	GILBANEPM030122-1822	Total/NA	Air	Filter to Air	
320-86524-3	GILBANEPM030122-1823	Total/NA	Air	Filter to Air	
MB 320-580364/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-580364/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-580364/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 580366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86524-1	GILBANEPM030122-1822	Total/NA	Air	3050B	580364
320-86524-3	GILBANEPM030122-1823	Total/NA	Air	3050B	580364
MB 320-580364/1-B	Method Blank	Total/NA	Air	3050B	580364
LCS 320-580364/2-B	Lab Control Sample	Total/NA	Air	3050B	580364
LCSD 320-580364/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	580364

### Analysis Batch: 580582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86524-1	GILBANEPM030122-1822	Total/NA	Air	6020	580366
320-86524-3	GILBANEPM030122-1823	Total/NA	Air	6020	580366
MB 320-580364/1-B	Method Blank	Total/NA	Air	6020	580366
LCS 320-580364/2-B	Lab Control Sample	Total/NA	Air	6020	580366
LCSD 320-580364/3-B	Lab Control Sample Dup	Total/NA	Air	6020	580366

## General Chemistry

### Pre Prep Batch: 580572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86524-2	GILBANETSP030122-1822	Total/NA	Air	Filter to Air	
320-86524-4	GILBANETSP030122-1823	Total/NA	Air	Filter to Air	

### Analysis Batch: 580587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86524-1	GILBANEPM030122-1822	Total/NA	Air	PM10	
320-86524-3	GILBANEPM030122-1823	Total/NA	Air	PM10	

### Analysis Batch: 580588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86524-2	GILBANETSP030122-1822	Total/NA	Air	40CFR50 App B	580572
320-86524-4	GILBANETSP030122-1823	Total/NA	Air	40CFR50 App B	580572

# Lab Chronicle

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

Job ID: 320-86524-1

**Client Sample ID: GILBANEPM030122-1822**

**Lab Sample ID: 320-86524-1**

**Date Collected: 04/05/22 07:10**

**Matrix: Air**

**Date Received: 04/06/22 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					580364	04/15/22 08:12	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580366	04/15/22 08:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			580582	04/15/22 13:12	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0374 g	580587	04/13/22 09:35	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1822**

**Lab Sample ID: 320-86524-2**

**Date Collected: 04/05/22 07:10**

**Matrix: Air**

**Date Received: 04/06/22 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			580588	04/13/22 09:35	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

**Client Sample ID: GILBANEPM030122-1823**

**Lab Sample ID: 320-86524-3**

**Date Collected: 04/05/22 06:58**

**Matrix: Air**

**Date Received: 04/06/22 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					580364	04/15/22 08:12	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580366	04/15/22 08:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			580582	04/15/22 13:15	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0448 g	580587	04/13/22 09:35	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1823**

**Lab Sample ID: 320-86524-4**

**Date Collected: 04/05/22 06:58**

**Matrix: Air**

**Date Received: 04/06/22 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			580588	04/13/22 09:35	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	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: 320-86524-1

## 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
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# Method Summary

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

Job ID: 320-86524-1

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: 320-86524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86524-1	GILBANEPM030122-1822	Air	04/05/22 07:10	04/06/22 09:55
320-86524-2	GILBANETSP030122-1822	Air	04/05/22 07:10	04/06/22 09:55
320-86524-3	GILBANEPM030122-1823	Air	04/05/22 06:58	04/06/22 09:55
320-86524-4	GILBANETSP030122-1823	Air	04/05/22 06:58	04/06/22 09:55

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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 # KT040522AIR**




**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 April 2022

**Comments:**

**Equipment:**

Code	Matrix
A	Air

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



320-86524 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring April 2022									
Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW620 - Air Pb Mn Cu	Comments
1	A	04/05/2022	0710	KT	X	X			VOLUME: 1727.17 (M3)
2	A	04/05/2022	0710	KT	X	X			VOLUME: 1642.13 (M3)
3	A	04/05/2022	0658	KT	X	X			VOLUME: 1728.57 (M3)
4	A	04/05/2022	0658	KT	X	X			VOLUME: 1723.08(M3)
5	TP								
6									
7									
8									
9									
10									

Turnaround Time: 5 days

<b>Relinquished by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
[Redacted]	4/5/22	1600	Fedex	4/5/22	1600	Shipping Date: 4/5/2022 / FedEx 7764 8679 3658
			[Redacted]	4-6-22	0955	<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

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# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86524-1

**Login Number: 86524**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 320-86611-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:  
4/15/2022 5:20:57 PM

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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



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# Definitions/Glossary

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

Job ID: 320-86611-1

## 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: 320-86611-1

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**Job ID: 320-86611-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-86611-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/8/2022 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 20.4° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-86611-1

## Client Sample ID: GILBANEPM030122-1824

## Lab Sample ID: 320-86611-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.088		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0080		0.00070	0.000098	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: GILBANETSP030122-1824

## Lab Sample ID: 320-86611-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	54.2321		0.3095	0.3095	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1825

## Lab Sample ID: 320-86611-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.16		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0067		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1825

## Lab Sample ID: 320-86611-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.9742		0.2918	0.2918	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1820

## Lab Sample ID: 320-86611-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0053		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.25		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	35		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1820

## Lab Sample ID: 320-86611-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	45.9410		0.2945	0.2945	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1821

## Lab Sample ID: 320-86611-7

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	0.16		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1821

## Lab Sample ID: 320-86611-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.8906		0.2862	0.2862	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

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

Job ID: 320-86611-1

**Client Sample ID: GILBANEPM030122-1824**

**Lab Sample ID: 320-86611-1**

Date Collected: 04/06/22 06:57

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00070	0.00010	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:13	1
Copper	0.088		0.0014	0.00010	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:13	1
Manganese	0.0080		0.00070	0.000098	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:13	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			04/11/22 07:15	1

**Client Sample ID: GILBANETSP030122-1824**

**Lab Sample ID: 320-86611-2**

Date Collected: 04/06/22 06:57

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	54.2321		0.3095	0.3095	ug/m3 (Air)			04/11/22 07:15	1

**Client Sample ID: GILBANEPM030122-1825**

**Lab Sample ID: 320-86611-3**

Date Collected: 04/06/22 06:46

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030		0.00070	0.00011	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:16	1
Copper	0.16		0.0014	0.00011	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:16	1
Manganese	0.0067		0.00070	0.000098	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	37		0.29	0.29	ug/m3			04/11/22 07:15	1

**Client Sample ID: GILBANETSP030122-1825**

**Lab Sample ID: 320-86611-4**

Date Collected: 04/06/22 06:46

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.9742		0.2918	0.2918	ug/m3 (Air)			04/11/22 07:15	1

**Client Sample ID: GILBANEPM030122-1820**

**Lab Sample ID: 320-86611-5**

Date Collected: 04/07/22 06:59

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0053		0.00068	0.00010	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:20	1
Copper	0.25		0.0014	0.00010	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:20	1
Manganese	0.015		0.00068	0.000096	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:20	1

Eurofins Sacramento

# Client Sample Results

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

Job ID: 320-86611-1

**Client Sample ID: GILBANEPM030122-1820**

**Lab Sample ID: 320-86611-5**

Date Collected: 04/07/22 06:59

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35		0.28	0.28	ug/m3			04/11/22 07:15	1

**Client Sample ID: GILBANETSP030122-1820**

**Lab Sample ID: 320-86611-6**

Date Collected: 04/07/22 06:59

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.9410		0.2945	0.2945	ug/m3 (Air)			04/11/22 07:15	1

**Client Sample ID: GILBANEPM030122-1821**

**Lab Sample ID: 320-86611-7**

Date Collected: 04/07/22 06:52

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:23	1
Copper	0.16		0.0014	0.00010	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:23	1
Manganese	0.010		0.00069	0.000096	ug/m3 (Air)		04/14/22 08:35	04/14/22 15:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			04/11/22 07:15	1

**Client Sample ID: GILBANETSP030122-1821**

**Lab Sample ID: 320-86611-8**

Date Collected: 04/07/22 06:52

Matrix: Air

Date Received: 04/08/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.8906		0.2862	0.2862	ug/m3 (Air)			04/11/22 07:15	1

# QC Sample Results

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

Job ID: 320-86611-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-580026/1-B**  
**Matrix: Air**  
**Analysis Batch: 580286**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 580040**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/14/22 08:35	04/14/22 14:35	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/14/22 08:35	04/14/22 14:35	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/14/22 08:35	04/14/22 14:35	1

**Lab Sample ID: LCS 320-580026/2-B**  
**Matrix: Air**  
**Analysis Batch: 580286**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 580040**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.244		ug/m3 (Air)		102	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 320-580026/3-B**  
**Matrix: Air**  
**Analysis Batch: 580286**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 580040**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111	3	15
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110	4	15
Manganese	0.240	0.258		ug/m3 (Air)		107	88 - 110	8	15

# QC Association Summary

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

Job ID: 320-86611-1

## Metals

### Pre Prep Batch: 580026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86611-1	GILBANEPM030122-1824	Total/NA	Air	Filter to Air	
320-86611-3	GILBANEPM030122-1825	Total/NA	Air	Filter to Air	
320-86611-5	GILBANEPM030122-1820	Total/NA	Air	Filter to Air	
320-86611-7	GILBANEPM030122-1821	Total/NA	Air	Filter to Air	
MB 320-580026/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-580026/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-580026/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 580040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86611-1	GILBANEPM030122-1824	Total/NA	Air	3050B	580026
320-86611-3	GILBANEPM030122-1825	Total/NA	Air	3050B	580026
320-86611-5	GILBANEPM030122-1820	Total/NA	Air	3050B	580026
320-86611-7	GILBANEPM030122-1821	Total/NA	Air	3050B	580026
MB 320-580026/1-B	Method Blank	Total/NA	Air	3050B	580026
LCS 320-580026/2-B	Lab Control Sample	Total/NA	Air	3050B	580026
LCSD 320-580026/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	580026

### Analysis Batch: 580286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86611-1	GILBANEPM030122-1824	Total/NA	Air	6020	580040
320-86611-3	GILBANEPM030122-1825	Total/NA	Air	6020	580040
320-86611-5	GILBANEPM030122-1820	Total/NA	Air	6020	580040
320-86611-7	GILBANEPM030122-1821	Total/NA	Air	6020	580040
MB 320-580026/1-B	Method Blank	Total/NA	Air	6020	580040
LCS 320-580026/2-B	Lab Control Sample	Total/NA	Air	6020	580040
LCSD 320-580026/3-B	Lab Control Sample Dup	Total/NA	Air	6020	580040

## General Chemistry

### Pre Prep Batch: 580572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86611-2	GILBANETSP030122-1824	Total/NA	Air	Filter to Air	
320-86611-4	GILBANETSP030122-1825	Total/NA	Air	Filter to Air	
320-86611-6	GILBANETSP030122-1820	Total/NA	Air	Filter to Air	
320-86611-8	GILBANETSP030122-1821	Total/NA	Air	Filter to Air	

### Analysis Batch: 580590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86611-1	GILBANEPM030122-1824	Total/NA	Air	PM10	
320-86611-3	GILBANEPM030122-1825	Total/NA	Air	PM10	
320-86611-5	GILBANEPM030122-1820	Total/NA	Air	PM10	
320-86611-7	GILBANEPM030122-1821	Total/NA	Air	PM10	

### Analysis Batch: 580591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86611-2	GILBANETSP030122-1824	Total/NA	Air	40CFR50 App B	580572
320-86611-4	GILBANETSP030122-1825	Total/NA	Air	40CFR50 App B	580572
320-86611-6	GILBANETSP030122-1820	Total/NA	Air	40CFR50 App B	580572
320-86611-8	GILBANETSP030122-1821	Total/NA	Air	40CFR50 App B	580572

Eurofins Sacramento

# Lab Chronicle

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

Job ID: 320-86611-1

**Client Sample ID: GILBANEPM030122-1824**

**Lab Sample ID: 320-86611-1**

**Date Collected: 04/06/22 06:57**

**Matrix: Air**

**Date Received: 04/08/22 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					580026	04/14/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580040	04/14/22 08:35	NIM	TAL SAC
Total/NA	Analysis	6020		1			580286	04/14/22 15:13	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0700 g	580590	04/11/22 07:15	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1824**

**Lab Sample ID: 320-86611-2**

**Date Collected: 04/06/22 06:57**

**Matrix: Air**

**Date Received: 04/08/22 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			580591	04/11/22 07:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

**Client Sample ID: GILBANEPM030122-1825**

**Lab Sample ID: 320-86611-3**

**Date Collected: 04/06/22 06:46**

**Matrix: Air**

**Date Received: 04/08/22 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					580026	04/14/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580040	04/14/22 08:35	NIM	TAL SAC
Total/NA	Analysis	6020		1			580286	04/14/22 15:16	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0638 g	580590	04/11/22 07:15	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1825**

**Lab Sample ID: 320-86611-4**

**Date Collected: 04/06/22 06:46**

**Matrix: Air**

**Date Received: 04/08/22 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			580591	04/11/22 07:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

**Client Sample ID: GILBANEPM030122-1820**

**Lab Sample ID: 320-86611-5**

**Date Collected: 04/07/22 06:59**

**Matrix: Air**

**Date Received: 04/08/22 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					580026	04/14/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580040	04/14/22 08:35	NIM	TAL SAC
Total/NA	Analysis	6020		1			580286	04/14/22 15:20	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0614 g	580590	04/11/22 07:15	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-86611-1

**Client Sample ID: GILBANETSP030122-1820**  
 Date Collected: 04/07/22 06:59  
 Date Received: 04/08/22 09:30

**Lab Sample ID: 320-86611-6**  
 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			580591	04/11/22 07:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

**Client Sample ID: GILBANEPM030122-1821**  
 Date Collected: 04/07/22 06:52  
 Date Received: 04/08/22 09:30

**Lab Sample ID: 320-86611-7**  
 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					580026	04/14/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580040	04/14/22 08:35	NIM	TAL SAC
Total/NA	Analysis	6020		1			580286	04/14/22 15:23	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0533 g	580590	04/11/22 07:15	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1821**  
 Date Collected: 04/07/22 06:52  
 Date Received: 04/08/22 09:30

**Lab Sample ID: 320-86611-8**  
 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			580591	04/11/22 07:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	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: 320-86611-1

## Laboratory: Eurofins Sacramento

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

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

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

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

- 1
- 2
- 3
- 4
- 5
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# Method Summary

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

Job ID: 320-86611-1

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: 320-86611-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86611-1	GILBANEPM030122-1824	Air	04/06/22 06:57	04/08/22 09:30
320-86611-2	GILBANETSP030122-1824	Air	04/06/22 06:57	04/08/22 09:30
320-86611-3	GILBANEPM030122-1825	Air	04/06/22 06:46	04/08/22 09:30
320-86611-4	GILBANETSP030122-1825	Air	04/06/22 06:46	04/08/22 09:30
320-86611-5	GILBANEPM030122-1820	Air	04/07/22 06:59	04/08/22 09:30
320-86611-6	GILBANETSP030122-1820	Air	04/07/22 06:59	04/08/22 09:30
320-86611-7	GILBANEPM030122-1821	Air	04/07/22 06:52	04/08/22 09:30
320-86611-8	GILBANETSP030122-1821	Air	04/07/22 06:52	04/08/22 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 # KT040722AIR**



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 April 2022

Comments:

Equipment:

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



Event: Parcel E Phase 2 Air Monitoring April 2022													
Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	04/06/2022	0657	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1720.30 (M3)
2	A	04/06/2022	0657	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1615.28 (M3)
3	A	04/06/2022	0646	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1712.46 (M3)
4	A	04/06/2022	0646	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1713.42 (M3)
5	A	04/07/2022	0659	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1754.97 (M3)
6	A	04/07/2022	0659	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1697.83 (M3)
7	A	04/07/2022	0652	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1747.24 (M3)
8	A	04/07/2022	0652	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1747.28 (M3)
9				TP									
10													

Turnaround Time: 5 days

Received by: (Signature)	Date	Time
Fedex	4/7/22	1600
[Redacted]	4-8-22	0930
Received by Laboratory: (Signature, Date, Time) & condition		
Shipping Date / Carrier / Airbill Number	Shipping Date: 4/7/2022 / FedEx 7765 0829 4291	

20.4



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86611-1

**Login Number: 86611**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-86744-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:  
4/20/2022 1:58:33 PM

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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



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# Definitions/Glossary

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

Job ID: 320-86744-1

## 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: 320-86744-1

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**Job ID: 320-86744-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-86744-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/13/2022 10:30 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 15.1° 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: 320-86744-1

## Client Sample ID: GILBANEPM030122-1826

## Lab Sample ID: 320-86744-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0064		0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.19		0.0046	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.026	B	0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	44		0.95	0.95	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1826

## Lab Sample ID: 320-86744-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	52.4168		1.0003	1.0003	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1827

## Lab Sample ID: 320-86744-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0052		0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.18		0.0046	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.019	B	0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37		0.96	0.96	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1827

## Lab Sample ID: 320-86744-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	54.3782		0.9642	0.9642	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1828

## Lab Sample ID: 320-86744-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0098		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014	B	0.00070	0.000098	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: GILBANETSP030122-1828

## Lab Sample ID: 320-86744-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	41.9025		0.3023	0.3023	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1829

## Lab Sample ID: 320-86744-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0078		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.18		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0097	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1829

## Lab Sample ID: 320-86744-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.7770		0.2901	0.2901	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: 320-86744-1

## Client Sample ID: GILBANEPM030122-1826

## Lab Sample ID: 320-86744-1

Date Collected: 04/07/22 14:15

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0064		0.0023	0.00034	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:08	1
Copper	0.19		0.0046	0.00034	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:08	1
Manganese	0.026	B	0.0023	0.00032	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:08	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	44		0.95	0.95	ug/m3			04/14/22 09:00	1

## Client Sample ID: GILBANETSP030122-1826

## Lab Sample ID: 320-86744-2

Date Collected: 04/07/22 14:15

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	52.4168		1.0003	1.0003	ug/m3 (Air)			04/14/22 09:00	1

## Client Sample ID: GILBANEPM030122-1827

## Lab Sample ID: 320-86744-3

Date Collected: 04/07/22 14:05

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0052		0.0023	0.00034	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:18	1
Copper	0.18		0.0046	0.00034	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:18	1
Manganese	0.019	B	0.0023	0.00032	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:18	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	37		0.96	0.96	ug/m3			04/14/22 09:00	1

## Client Sample ID: GILBANETSP030122-1827

## Lab Sample ID: 320-86744-4

Date Collected: 04/07/22 14:05

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	54.3782		0.9642	0.9642	ug/m3 (Air)			04/14/22 09:00	1

## Client Sample ID: GILBANEPM030122-1828

## Lab Sample ID: 320-86744-5

Date Collected: 04/12/22 07:02

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0098		0.00070	0.00010	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:21	1
Copper	0.11		0.0014	0.00010	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:21	1
Manganese	0.014	B	0.00070	0.000098	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:21	1

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# Client Sample Results

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

Job ID: 320-86744-1

**Client Sample ID: GILBANEPM030122-1828**

**Lab Sample ID: 320-86744-5**

Date Collected: 04/12/22 07:02

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

**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			04/14/22 09:00	1

**Client Sample ID: GILBANETSP030122-1828**

**Lab Sample ID: 320-86744-6**

Date Collected: 04/12/22 07:02

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	41.9025		0.3023	0.3023	ug/m3 (Air)			04/14/22 09:00	1

**Client Sample ID: GILBANEPM030122-1829**

**Lab Sample ID: 320-86744-7**

Date Collected: 04/12/22 06:50

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0078		0.00070	0.00010	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:24	1
Copper	0.18		0.0014	0.00010	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:24	1
Manganese	0.0097	B	0.00070	0.000098	ug/m3 (Air)		04/20/22 03:30	04/20/22 07:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	27		0.29	0.29	ug/m3			04/14/22 09:00	1

**Client Sample ID: GILBANETSP030122-1829**

**Lab Sample ID: 320-86744-8**

Date Collected: 04/12/22 06:50

Matrix: Air

Date Received: 04/13/22 10:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.7770		0.2901	0.2901	ug/m3 (Air)			04/14/22 09:00	1

# QC Sample Results

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

Job ID: 320-86744-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-581463/1-B**  
**Matrix: Air**  
**Analysis Batch: 581517**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 581468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/20/22 03:30	04/20/22 06:42	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/20/22 03:30	04/20/22 06:42	1
Manganese	0.000221	J	0.0012	0.00017	ug/m3 (Air)		04/20/22 03:30	04/20/22 06:42	1

**Lab Sample ID: LCS 320-581463/2-B**  
**Matrix: Air**  
**Analysis Batch: 581517**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 581468**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.251		ug/m3 (Air)		104	86 - 111
Copper	0.240	0.229		ug/m3 (Air)		96	85 - 110
Manganese	0.240	0.239		ug/m3 (Air)		99	88 - 110

**Lab Sample ID: LCSD 320-581463/3-B**  
**Matrix: Air**  
**Analysis Batch: 581517**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 581468**

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	1	15
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110	5	15
Manganese	0.240	0.250		ug/m3 (Air)		104	88 - 110	5	15

# QC Association Summary

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

Job ID: 320-86744-1

## Metals

### Pre Prep Batch: 581463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86744-1	GILBANEPM030122-1826	Total/NA	Air	Filter to Air	
320-86744-3	GILBANEPM030122-1827	Total/NA	Air	Filter to Air	
320-86744-5	GILBANEPM030122-1828	Total/NA	Air	Filter to Air	
320-86744-7	GILBANEPM030122-1829	Total/NA	Air	Filter to Air	
MB 320-581463/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-581463/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-581463/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 581468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86744-1	GILBANEPM030122-1826	Total/NA	Air	3050B	581463
320-86744-3	GILBANEPM030122-1827	Total/NA	Air	3050B	581463
320-86744-5	GILBANEPM030122-1828	Total/NA	Air	3050B	581463
320-86744-7	GILBANEPM030122-1829	Total/NA	Air	3050B	581463
MB 320-581463/1-B	Method Blank	Total/NA	Air	3050B	581463
LCS 320-581463/2-B	Lab Control Sample	Total/NA	Air	3050B	581463
LCSD 320-581463/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	581463

### Analysis Batch: 581517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86744-1	GILBANEPM030122-1826	Total/NA	Air	6020	581468
320-86744-3	GILBANEPM030122-1827	Total/NA	Air	6020	581468
320-86744-5	GILBANEPM030122-1828	Total/NA	Air	6020	581468
320-86744-7	GILBANEPM030122-1829	Total/NA	Air	6020	581468
MB 320-581463/1-B	Method Blank	Total/NA	Air	6020	581468
LCS 320-581463/2-B	Lab Control Sample	Total/NA	Air	6020	581468
LCSD 320-581463/3-B	Lab Control Sample Dup	Total/NA	Air	6020	581468

## General Chemistry

### Pre Prep Batch: 580572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86744-2	GILBANETSP030122-1826	Total/NA	Air	Filter to Air	
320-86744-4	GILBANETSP030122-1827	Total/NA	Air	Filter to Air	
320-86744-6	GILBANETSP030122-1828	Total/NA	Air	Filter to Air	
320-86744-8	GILBANETSP030122-1829	Total/NA	Air	Filter to Air	

### Analysis Batch: 581498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86744-1	GILBANEPM030122-1826	Total/NA	Air	PM10	
320-86744-3	GILBANEPM030122-1827	Total/NA	Air	PM10	
320-86744-5	GILBANEPM030122-1828	Total/NA	Air	PM10	
320-86744-7	GILBANEPM030122-1829	Total/NA	Air	PM10	

### Analysis Batch: 581500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86744-2	GILBANETSP030122-1826	Total/NA	Air	40CFR50 App B	580572
320-86744-4	GILBANETSP030122-1827	Total/NA	Air	40CFR50 App B	580572
320-86744-6	GILBANETSP030122-1828	Total/NA	Air	40CFR50 App B	580572
320-86744-8	GILBANETSP030122-1829	Total/NA	Air	40CFR50 App B	580572

Eurofins Sacramento

# Lab Chronicle

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

Job ID: 320-86744-1

**Client Sample ID: GILBANEPM030122-1826**

**Lab Sample ID: 320-86744-1**

Date Collected: 04/07/22 14:15

Matrix: Air

Date Received: 04/13/22 10:30

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					581463	04/20/22 01:22	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	581468	04/20/22 03:30	DPM	TAL SAC
Total/NA	Analysis	6020		1			581517	04/20/22 07:08	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0233 g	581498	04/14/22 09:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1826**

**Lab Sample ID: 320-86744-2**

Date Collected: 04/07/22 14:15

Matrix: Air

Date Received: 04/13/22 10:30

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			581500	04/14/22 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

**Client Sample ID: GILBANEPM030122-1827**

**Lab Sample ID: 320-86744-3**

Date Collected: 04/07/22 14:05

Matrix: Air

Date Received: 04/13/22 10:30

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					581463	04/20/22 01:22	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	581468	04/20/22 03:30	DPM	TAL SAC
Total/NA	Analysis	6020		1			581517	04/20/22 07:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0194 g	581498	04/14/22 09:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1827**

**Lab Sample ID: 320-86744-4**

Date Collected: 04/07/22 14:05

Matrix: Air

Date Received: 04/13/22 10:30

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			581500	04/14/22 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

**Client Sample ID: GILBANEPM030122-1828**

**Lab Sample ID: 320-86744-5**

Date Collected: 04/12/22 07:02

Matrix: Air

Date Received: 04/13/22 10:30

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					581463	04/20/22 01:22	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	581468	04/20/22 03:30	DPM	TAL SAC
Total/NA	Analysis	6020		1			581517	04/20/22 07:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0698 g	581498	04/14/22 09:00	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-86744-1

**Client Sample ID: GILBANETSP030122-1828**  
**Date Collected: 04/12/22 07:02**  
**Date Received: 04/13/22 10:30**

**Lab Sample ID: 320-86744-6**  
**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			581500	04/14/22 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

**Client Sample ID: GILBANEPM030122-1829**  
**Date Collected: 04/12/22 06:50**  
**Date Received: 04/13/22 10:30**

**Lab Sample ID: 320-86744-7**  
**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					581463	04/20/22 01:22	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	581468	04/20/22 03:30	DPM	TAL SAC
Total/NA	Analysis	6020		1			581517	04/20/22 07:24	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0457 g	581498	04/14/22 09:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP030122-1829**  
**Date Collected: 04/12/22 06:50**  
**Date Received: 04/13/22 10:30**

**Lab Sample ID: 320-86744-8**  
**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			581500	04/14/22 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	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: 320-86744-1

## 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: 320-86744-1

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: 320-86744-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86744-1	GILBANEPM030122-1826	Air	04/07/22 14:15	04/13/22 10:30
320-86744-2	GILBANETSP030122-1826	Air	04/07/22 14:15	04/13/22 10:30
320-86744-3	GILBANEPM030122-1827	Air	04/07/22 14:05	04/13/22 10:30
320-86744-4	GILBANETSP030122-1827	Air	04/07/22 14:05	04/13/22 10:30
320-86744-5	GILBANEPM030122-1828	Air	04/12/22 07:02	04/13/22 10:30
320-86744-6	GILBANETSP030122-1828	Air	04/12/22 07:02	04/13/22 10:30
320-86744-7	GILBANEPM030122-1829	Air	04/12/22 06:50	04/13/22 10:30
320-86744-8	GILBANETSP030122-1829	Air	04/12/22 06:50	04/13/22 10:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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 # KT041222AIR**



**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 April 2022

**Comments:**

**Equipment:**

**Analytical Test Method**

Code	Matrix
A	Air

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

Event: Parcel E Phase 2 Air Monitoring April 2022												
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	04/07/2022	1415	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 524.25 (M3)
2	A	04/07/2022	1415	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 499.84 (M3)
3	A	04/07/2022	1405	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 522.65 (M3)
4	A	04/07/2022	1405	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 518.59 (M3)
5	A	04/12/2022	0702	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1722.45 (M3)
6	A	04/12/2022	0702	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1653.84 (M3)
7	A	04/12/2022	0650	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1714.91 (M3)
8	A	04/12/2022	0650	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1723.77 (M3)
9				TP								
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	4/12/22	1600	Fedex	4/12/22	1600	Shipping Date: 4/12/2022/ FedEx 7765 5826 8531
[Redacted]	4/13/22	1030	[Redacted]			

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

15-c



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86744-1

**Login Number: 86744**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 320-86834-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:  
4/26/2022 8:32:56 AM

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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



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# Definitions/Glossary

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

Job ID: 320-86834-1

## 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: 320-86834-1

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**Job ID: 320-86834-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-86834-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/15/2022 9:50 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 18.8° C.

**Metals**

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

- 1
- 2
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- 14

# Detection Summary

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

Job ID: 320-86834-1

## Client Sample ID: GILBANEPM030122-1830

## Lab Sample ID: 320-86834-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0024		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.035		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0061		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1830

## Lab Sample ID: 320-86834-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.6102		0.3009	0.3009	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1831

## Lab Sample ID: 320-86834-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0065		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1831

## Lab Sample ID: 320-86834-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	5.3737		0.2889	0.2889	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1832

## Lab Sample ID: 320-86834-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.027		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0033		0.00071	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.30	0.30	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1832

## Lab Sample ID: 320-86834-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.8286		0.3010	0.3010	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1833

## Lab Sample ID: 320-86834-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0013		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.23		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0032		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: GILBANETSP030122-1833

## Lab Sample ID: 320-86834-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.8205		0.2933	0.2933	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 320-86834-1

## Client Sample ID: GILBANEPM030122-1830

Lab Sample ID: 320-86834-1

Date Collected: 04/13/22 06:58

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024		0.00069	0.00010	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:15	1
Copper	0.035		0.0014	0.00010	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:15	1
Manganese	0.0061		0.00069	0.000097	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.29	0.29	ug/m3			04/20/22 05:25	1

## Client Sample ID: GILBANETSP030122-1830

Lab Sample ID: 320-86834-2

Date Collected: 04/13/22 06:58

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.6102		0.3009	0.3009	ug/m3 (Air)			04/20/22 05:25	1

## Client Sample ID: GILBANEPM030122-1831

Lab Sample ID: 320-86834-3

Date Collected: 04/13/22 06:48

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037		0.00069	0.00010	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:18	1
Copper	0.13		0.0014	0.00010	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:18	1
Manganese	0.0065		0.00069	0.000097	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:18	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			04/20/22 05:25	1

## Client Sample ID: GILBANETSP030122-1831

Lab Sample ID: 320-86834-4

Date Collected: 04/13/22 06:48

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	5.3737		0.2889	0.2889	ug/m3 (Air)			04/20/22 05:25	1

## Client Sample ID: GILBANEPM030122-1832

Lab Sample ID: 320-86834-5

Date Collected: 04/14/22 07:00

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00071	0.00011	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:28	1
Copper	0.027		0.0014	0.00011	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:28	1
Manganese	0.0033		0.00071	0.00010	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:28	1

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# Client Sample Results

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

Job ID: 320-86834-1

**Client Sample ID: GILBANEPM030122-1832**

**Lab Sample ID: 320-86834-5**

Date Collected: 04/14/22 07:00

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.30	0.30	ug/m3			04/20/22 05:25	1

**Client Sample ID: GILBANETSP030122-1832**

**Lab Sample ID: 320-86834-6**

Date Collected: 04/14/22 07:00

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.8286		0.3010	0.3010	ug/m3 (Air)			04/20/22 05:25	1

**Client Sample ID: GILBANEPM030122-1833**

**Lab Sample ID: 320-86834-7**

Date Collected: 04/14/22 06:53

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0013		0.00069	0.00010	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:31	1
Copper	0.23		0.0014	0.00010	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:31	1
Manganese	0.0032		0.00069	0.000097	ug/m3 (Air)		04/22/22 09:15	04/25/22 12:31	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			04/20/22 05:25	1

**Client Sample ID: GILBANETSP030122-1833**

**Lab Sample ID: 320-86834-8**

Date Collected: 04/14/22 06:53

Matrix: Air

Date Received: 04/15/22 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.8205		0.2933	0.2933	ug/m3 (Air)			04/20/22 05:25	1

# QC Sample Results

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

Job ID: 320-86834-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-582199/1-B**  
**Matrix: Air**  
**Analysis Batch: 582797**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 582204**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/22/22 09:15	04/25/22 11:36	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/22/22 09:15	04/25/22 11:36	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/22/22 09:15	04/25/22 11:36	1

**Lab Sample ID: LCS 320-582199/2-B**  
**Matrix: Air**  
**Analysis Batch: 582797**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 582204**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.232		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.220		ug/m3 (Air)		91	85 - 110
Manganese	0.240	0.228		ug/m3 (Air)		95	88 - 110

**Lab Sample ID: LCSD 320-582199/3-B**  
**Matrix: Air**  
**Analysis Batch: 582797**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 582204**

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	5	15
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110	6	15
Manganese	0.240	0.241		ug/m3 (Air)		100	88 - 110	5	15

# QC Association Summary

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

Job ID: 320-86834-1

## Metals

### Pre Prep Batch: 582199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86834-1	GILBANEPM030122-1830	Total/NA	Air	Filter to Air	
320-86834-3	GILBANEPM030122-1831	Total/NA	Air	Filter to Air	
320-86834-5	GILBANEPM030122-1832	Total/NA	Air	Filter to Air	
320-86834-7	GILBANEPM030122-1833	Total/NA	Air	Filter to Air	
MB 320-582199/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-582199/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-582199/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 582204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86834-1	GILBANEPM030122-1830	Total/NA	Air	3050B	582199
320-86834-3	GILBANEPM030122-1831	Total/NA	Air	3050B	582199
320-86834-5	GILBANEPM030122-1832	Total/NA	Air	3050B	582199
320-86834-7	GILBANEPM030122-1833	Total/NA	Air	3050B	582199
MB 320-582199/1-B	Method Blank	Total/NA	Air	3050B	582199
LCS 320-582199/2-B	Lab Control Sample	Total/NA	Air	3050B	582199
LCSD 320-582199/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	582199

### Analysis Batch: 582797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86834-1	GILBANEPM030122-1830	Total/NA	Air	6020	582204
320-86834-3	GILBANEPM030122-1831	Total/NA	Air	6020	582204
320-86834-5	GILBANEPM030122-1832	Total/NA	Air	6020	582204
320-86834-7	GILBANEPM030122-1833	Total/NA	Air	6020	582204
MB 320-582199/1-B	Method Blank	Total/NA	Air	6020	582204
LCS 320-582199/2-B	Lab Control Sample	Total/NA	Air	6020	582204
LCSD 320-582199/3-B	Lab Control Sample Dup	Total/NA	Air	6020	582204

## General Chemistry

### Pre Prep Batch: 580924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86834-2	GILBANETSP030122-1830	Total/NA	Air	Filter to Air	
320-86834-4	GILBANETSP030122-1831	Total/NA	Air	Filter to Air	
320-86834-6	GILBANETSP030122-1832	Total/NA	Air	Filter to Air	
320-86834-8	GILBANETSP030122-1833	Total/NA	Air	Filter to Air	

### Analysis Batch: 582877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86834-1	GILBANEPM030122-1830	Total/NA	Air	PM10	
320-86834-3	GILBANEPM030122-1831	Total/NA	Air	PM10	
320-86834-5	GILBANEPM030122-1832	Total/NA	Air	PM10	
320-86834-7	GILBANEPM030122-1833	Total/NA	Air	PM10	

### Analysis Batch: 582878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86834-2	GILBANETSP030122-1830	Total/NA	Air	40CFR50 App B	580924
320-86834-4	GILBANETSP030122-1831	Total/NA	Air	40CFR50 App B	580924
320-86834-6	GILBANETSP030122-1832	Total/NA	Air	40CFR50 App B	580924
320-86834-8	GILBANETSP030122-1833	Total/NA	Air	40CFR50 App B	580924

Eurofins Sacramento

# Lab Chronicle

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

Job ID: 320-86834-1

**Client Sample ID: GILBANEPM030122-1830**

**Lab Sample ID: 320-86834-1**

**Date Collected: 04/13/22 06:58**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					582199	04/22/22 09:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	582204	04/22/22 09:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			582797	04/25/22 12:15	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0264 g	582877	04/20/22 05:25	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1830**

**Lab Sample ID: 320-86834-2**

**Date Collected: 04/13/22 06:58**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					580924	04/18/22 10:51	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			582878	04/20/22 05:25	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1831**

**Lab Sample ID: 320-86834-3**

**Date Collected: 04/13/22 06:48**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					582199	04/22/22 09:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	582204	04/22/22 09:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			582797	04/25/22 12:18	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0322 g	582877	04/20/22 05:25	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1831**

**Lab Sample ID: 320-86834-4**

**Date Collected: 04/13/22 06:48**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					580924	04/18/22 10:51	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			582878	04/20/22 05:25	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1832**

**Lab Sample ID: 320-86834-5**

**Date Collected: 04/14/22 07:00**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					582199	04/22/22 09:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	582204	04/22/22 09:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			582797	04/25/22 12:28	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0232 g	582877	04/20/22 05:25	JMD	TAL SAC

# Lab Chronicle

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

Job ID: 320-86834-1

**Client Sample ID: GILBANETSP030122-1832**

**Lab Sample ID: 320-86834-6**

**Date Collected: 04/14/22 07:00**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					580924	04/18/22 10:51	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			582878	04/20/22 05:25	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1833**

**Lab Sample ID: 320-86834-7**

**Date Collected: 04/14/22 06:53**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					582199	04/22/22 09:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	582204	04/22/22 09:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			582797	04/25/22 12:31	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0245 g	582877	04/20/22 05:25	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1833**

**Lab Sample ID: 320-86834-8**

**Date Collected: 04/14/22 06:53**

**Matrix: Air**

**Date Received: 04/15/22 09:50**

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					580924	04/18/22 10:51	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			582878	04/20/22 05:25	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: 320-86834-1

## 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: 320-86834-1

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: 320-86834-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86834-1	GILBANEPM030122-1830	Air	04/13/22 06:58	04/15/22 09:50
320-86834-2	GILBANETSP030122-1830	Air	04/13/22 06:58	04/15/22 09:50
320-86834-3	GILBANEPM030122-1831	Air	04/13/22 06:48	04/15/22 09:50
320-86834-4	GILBANETSP030122-1831	Air	04/13/22 06:48	04/15/22 09:50
320-86834-5	GILBANEPM030122-1832	Air	04/14/22 07:00	04/15/22 09:50
320-86834-6	GILBANETSP030122-1832	Air	04/14/22 07:00	04/15/22 09:50
320-86834-7	GILBANEPM030122-1833	Air	04/14/22 06:53	04/15/22 09:50
320-86834-8	GILBANETSP030122-1833	Air	04/14/22 06:53	04/15/22 09:50

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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 # KT041422AIR**



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 April 2022

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
											Top	Bottom		
1	A	04/13/2022	0658	KT	CAIR - Air PM10	X			AMSE1	N1	0.00	0.00	1	VOLUME: 1739.71 (M3)
2	A	04/13/2022	0658	KT	CAIR - Air PM10	X			AMSE1	N1	0.00	0.00	1	VOLUME: 1661.59 (M3)
3	A	04/13/2022	0648	KT	CAIR - Air PM10	X			AMSE2	N1	0.00	0.00	1	VOLUME: 1731.45 (M3)
4	A	04/13/2022	0648	KT	CAIR - Air PM10	X			AMSE2	N1	0.00	0.00	1	VOLUME: 1730.65 (M3)
5	A	04/14/2022	0700	KT	CAIR - Air PM10	X			AMSE1	N1	0.00	0.00	1	VOLUME: 1684.17 (M3)
6	A	04/14/2022	0700	KT	CAIR - Air PM10	X			AMSE1	N1	0.00	0.00	1	VOLUME: 1661.18 (M3)
7	A	04/14/2022	0653	KT	CAIR - Air PM10	X			AMSE2	N1	0.00	0.00	1	VOLUME: 1734.83 (M3)
8	A	04/14/2022	0653	KT	CAIR - Air PM10	X			AMSE2	N1	0.00	0.00	1	VOLUME: 1704.82 (M3)
9				TP										
10														



Code	Matrix
A	Air

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	4/14/22	1600	Fedex	4/14/22	1600	Shipping Date: 4/14/2022 / FedEx 7765 7301 6745
[REDACTED]			[REDACTED]	4/15/22	9:50	
						Received by Laboratory: (Signature, Date, Time) & condition

Gilbane Navy\_COC\_Field  
April 14, 2022

NO THERM ON SAMPLES SO 4-15-22

18.8°C



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86834-1

**Login Number: 86834**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-86947-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:  
4/27/2022 6:07:53 PM

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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



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# Definitions/Glossary

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

Job ID: 320-86947-1

## 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: 320-86947-1

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**Job ID: 320-86947-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-86947-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/20/2022 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 19.7° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-86947-1

## Client Sample ID: GILBANEPM030122-1834

## Lab Sample ID: 320-86947-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017	J	0.0023	0.00035	ug/m3 (Air)	1		6020	Total/NA
Copper	0.042		0.0046	0.00035	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0038		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.96	0.96	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1834

## Lab Sample ID: 320-86947-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	12.0586		1.0049	1.0049	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1835

## Lab Sample ID: 320-86947-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0015	J	0.0023	0.00035	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0046	0.00035	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0021	J	0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.4		0.96	0.96	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1835

## Lab Sample ID: 320-86947-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.8416		0.9612	0.9612	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1836

## Lab Sample ID: 320-86947-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.040		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0062		0.00070	0.000098	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: GILBANETSP030122-1836

## Lab Sample ID: 320-86947-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.9058		0.3056	0.3056	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1837

## Lab Sample ID: 320-86947-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00090		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.044		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0022		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.9		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1837

## Lab Sample ID: 320-86947-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	12.8472		0.2907	0.2907	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: 320-86947-1

## Client Sample ID: GILBANEPM030122-1834

## Lab Sample ID: 320-86947-1

Date Collected: 04/14/22 14:15

Matrix: Air

Date Received: 04/20/22 09:55

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017	J	0.0023	0.00035	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:09	1
Copper	0.042		0.0046	0.00035	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:09	1
Manganese	0.0038		0.0023	0.00032	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:09	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.96	0.96	ug/m3			04/22/22 09:00	1

## Client Sample ID: GILBANETSP030122-1834

## Lab Sample ID: 320-86947-2

Date Collected: 04/14/22 14:15

Matrix: Air

Date Received: 04/20/22 09:55

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	12.0586		1.0049	1.0049	ug/m3 (Air)			04/22/22 09:00	1

## Client Sample ID: GILBANEPM030122-1835

## Lab Sample ID: 320-86947-3

Date Collected: 04/14/22 14:09

Matrix: Air

Date Received: 04/20/22 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	0.0023	0.00035	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:25	1
Copper	0.13		0.0046	0.00035	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:25	1
Manganese	0.0021	J	0.0023	0.00032	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:25	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.4		0.96	0.96	ug/m3			04/22/22 09:00	1

## Client Sample ID: GILBANETSP030122-1835

## Lab Sample ID: 320-86947-4

Date Collected: 04/14/22 14:09

Matrix: Air

Date Received: 04/20/22 09:55

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.8416		0.9612	0.9612	ug/m3 (Air)			04/22/22 09:00	1

## Client Sample ID: GILBANEPM030122-1836

## Lab Sample ID: 320-86947-5

Date Collected: 04/19/22 06:36

Matrix: Air

Date Received: 04/20/22 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		0.00070	0.00011	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:29	1
Copper	0.040		0.0014	0.00011	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:29	1
Manganese	0.0062		0.00070	0.000098	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:29	1

Eurofins Sacramento

# Client Sample Results

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

Job ID: 320-86947-1

**Client Sample ID: GILBANEPM030122-1836**

**Lab Sample ID: 320-86947-5**

Date Collected: 04/19/22 06:36

Matrix: Air

Date Received: 04/20/22 09:55

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.29	0.29	ug/m3			04/22/22 09:00	1

**Client Sample ID: GILBANETSP030122-1836**

**Lab Sample ID: 320-86947-6**

Date Collected: 04/19/22 06:36

Matrix: Air

Date Received: 04/20/22 09:55

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.9058		0.3056	0.3056	ug/m3 (Air)			04/22/22 09:00	1

**Client Sample ID: GILBANEPM030122-1837**

**Lab Sample ID: 320-86947-7**

Date Collected: 04/19/22 06:26

Matrix: Air

Date Received: 04/20/22 09:55

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00090		0.00070	0.00011	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:32	1
Copper	0.044		0.0014	0.00011	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:32	1
Manganese	0.0022		0.00070	0.000098	ug/m3 (Air)		04/26/22 10:13	04/26/22 15:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.9		0.29	0.29	ug/m3			04/22/22 09:00	1

**Client Sample ID: GILBANETSP030122-1837**

**Lab Sample ID: 320-86947-8**

Date Collected: 04/19/22 06:26

Matrix: Air

Date Received: 04/20/22 09:55

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	12.8472		0.2907	0.2907	ug/m3 (Air)			04/22/22 09:00	1

# QC Sample Results

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

Job ID: 320-86947-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-583031/1-B**  
**Matrix: Air**  
**Analysis Batch: 583309**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 583040**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/26/22 10:13	04/26/22 14:59	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/26/22 10:13	04/26/22 14:59	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/26/22 10:13	04/26/22 14:59	1

**Lab Sample ID: LCS 320-583031/2-B**  
**Matrix: Air**  
**Analysis Batch: 583309**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 583040**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.234		ug/m3 (Air)		98	86 - 111
Copper	0.240	0.220		ug/m3 (Air)		91	85 - 110
Manganese	0.240	0.227		ug/m3 (Air)		95	88 - 110

**Lab Sample ID: LCSD 320-583031/3-B**  
**Matrix: Air**  
**Analysis Batch: 583309**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 583040**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.248		ug/m3 (Air)		103	86 - 111	6	15
Copper	0.240	0.233		ug/m3 (Air)		97	85 - 110	6	15
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110	5	15

# QC Association Summary

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

Job ID: 320-86947-1

## Metals

### Pre Prep Batch: 583031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86947-1	GILBANEPM030122-1834	Total/NA	Air	Filter to Air	
320-86947-3	GILBANEPM030122-1835	Total/NA	Air	Filter to Air	
320-86947-5	GILBANEPM030122-1836	Total/NA	Air	Filter to Air	
320-86947-7	GILBANEPM030122-1837	Total/NA	Air	Filter to Air	
MB 320-583031/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-583031/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-583031/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 583040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86947-1	GILBANEPM030122-1834	Total/NA	Air	3050B	583031
320-86947-3	GILBANEPM030122-1835	Total/NA	Air	3050B	583031
320-86947-5	GILBANEPM030122-1836	Total/NA	Air	3050B	583031
320-86947-7	GILBANEPM030122-1837	Total/NA	Air	3050B	583031
MB 320-583031/1-B	Method Blank	Total/NA	Air	3050B	583031
LCS 320-583031/2-B	Lab Control Sample	Total/NA	Air	3050B	583031
LCSD 320-583031/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	583031

### Analysis Batch: 583309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86947-1	GILBANEPM030122-1834	Total/NA	Air	6020	583040
320-86947-3	GILBANEPM030122-1835	Total/NA	Air	6020	583040
320-86947-5	GILBANEPM030122-1836	Total/NA	Air	6020	583040
320-86947-7	GILBANEPM030122-1837	Total/NA	Air	6020	583040
MB 320-583031/1-B	Method Blank	Total/NA	Air	6020	583040
LCS 320-583031/2-B	Lab Control Sample	Total/NA	Air	6020	583040
LCSD 320-583031/3-B	Lab Control Sample Dup	Total/NA	Air	6020	583040

## General Chemistry

### Pre Prep Batch: 583181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86947-2	GILBANETSP030122-1834	Total/NA	Air	Filter to Air	
320-86947-4	GILBANETSP030122-1835	Total/NA	Air	Filter to Air	
320-86947-6	GILBANETSP030122-1836	Total/NA	Air	Filter to Air	
320-86947-8	GILBANETSP030122-1837	Total/NA	Air	Filter to Air	

### Analysis Batch: 583469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86947-1	GILBANEPM030122-1834	Total/NA	Air	PM10	
320-86947-3	GILBANEPM030122-1835	Total/NA	Air	PM10	
320-86947-5	GILBANEPM030122-1836	Total/NA	Air	PM10	
320-86947-7	GILBANEPM030122-1837	Total/NA	Air	PM10	

### Analysis Batch: 583478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86947-2	GILBANETSP030122-1834	Total/NA	Air	40CFR50 App B	583181
320-86947-4	GILBANETSP030122-1835	Total/NA	Air	40CFR50 App B	583181
320-86947-6	GILBANETSP030122-1836	Total/NA	Air	40CFR50 App B	583181
320-86947-8	GILBANETSP030122-1837	Total/NA	Air	40CFR50 App B	583181

Eurofins Sacramento

# Lab Chronicle

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

Job ID: 320-86947-1

**Client Sample ID: GILBANEPM030122-1834**

**Lab Sample ID: 320-86947-1**

**Date Collected: 04/14/22 14:15**

**Matrix: Air**

**Date Received: 04/20/22 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					583031	04/26/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583040	04/26/22 10:13	NIM	TAL SAC
Total/NA	Analysis	6020		1			583309	04/26/22 15:09	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0056 g	583469	04/22/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1834**

**Lab Sample ID: 320-86947-2**

**Date Collected: 04/14/22 14:15**

**Matrix: Air**

**Date Received: 04/20/22 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			583478	04/22/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:39	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1835**

**Lab Sample ID: 320-86947-3**

**Date Collected: 04/14/22 14:09**

**Matrix: Air**

**Date Received: 04/20/22 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					583031	04/26/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583040	04/26/22 10:13	NIM	TAL SAC
Total/NA	Analysis	6020		1			583309	04/26/22 15:25	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0044 g	583469	04/22/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1835**

**Lab Sample ID: 320-86947-4**

**Date Collected: 04/14/22 14:09**

**Matrix: Air**

**Date Received: 04/20/22 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			583478	04/22/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:39	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1836**

**Lab Sample ID: 320-86947-5**

**Date Collected: 04/19/22 06:36**

**Matrix: Air**

**Date Received: 04/20/22 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					583031	04/26/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583040	04/26/22 10:13	NIM	TAL SAC
Total/NA	Analysis	6020		1			583309	04/26/22 15:29	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0239 g	583469	04/22/22 09:00	JMD	TAL SAC

# Lab Chronicle

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

Job ID: 320-86947-1

**Client Sample ID: GILBANETSP030122-1836**

**Lab Sample ID: 320-86947-6**

Date Collected: 04/19/22 06:36

Matrix: Air

Date Received: 04/20/22 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			583478	04/22/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:39	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1837**

**Lab Sample ID: 320-86947-7**

Date Collected: 04/19/22 06:26

Matrix: Air

Date Received: 04/20/22 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					583031	04/26/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583040	04/26/22 10:13	NIM	TAL SAC
Total/NA	Analysis	6020		1			583309	04/26/22 15:32	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0152 g	583469	04/22/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1837**

**Lab Sample ID: 320-86947-8**

Date Collected: 04/19/22 06:26

Matrix: Air

Date Received: 04/20/22 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			583478	04/22/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:39	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: 320-86947-1

## 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
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# Method Summary

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

Job ID: 320-86947-1

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: 320-86947-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86947-1	GILBANEPM030122-1834	Air	04/14/22 14:15	04/20/22 09:55
320-86947-2	GILBANETSP030122-1834	Air	04/14/22 14:15	04/20/22 09:55
320-86947-3	GILBANEPM030122-1835	Air	04/14/22 14:09	04/20/22 09:55
320-86947-4	GILBANETSP030122-1835	Air	04/14/22 14:09	04/20/22 09:55
320-86947-5	GILBANEPM030122-1836	Air	04/19/22 06:36	04/20/22 09:55
320-86947-6	GILBANETSP030122-1836	Air	04/19/22 06:36	04/20/22 09:55
320-86947-7	GILBANEPM030122-1837	Air	04/19/22 06:26	04/20/22 09:55
320-86947-8	GILBANETSP030122-1837	Air	04/19/22 06:26	04/20/22 09:55

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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 # KT041922AIR**



**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 April 2022

**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  
 N0500 - Air TSP  
 SW6020 - Air Pb Mn Cu

Event: Parcel E Phase 2 Air Monitoring April 2022												
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	GILBANEPM030122-1834	04/14/2022	1415	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 519.74 (M3)
2	GILBANETSP030122-1834	04/14/2022	1415	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 497.57 (M3)
3	GILBANEPM030122-1835	04/14/2022	1409	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 520.96 (M3)
4	GILBANETSP030122-1835	04/14/2022	1409	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 520.17 (M3)
5	GILBANEPM030122-1836	04/19/2022	0636	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1713.15 (M3)
6	GILBANETSP030122-1836	04/19/2022	0636	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1635.91 (M3)
7	GILBANEPM030122-1837	04/19/2022	0626	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1706.18 (M3)
8	GILBANETSP030122-1837	04/19/2022	0626	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1720.22 (M3)
9	TP											
10												

Turnaround Time: 5 days

<b>Relinquished by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
[Redacted]	4/19/22	1600	FedEx	4/19/22	1600	Shipping Date: 4/19/2022/FedEx 7766 0818 8274
			[Redacted]	4-20-22	0955	<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

19.7°C



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86947-1

**Login Number: 86947**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-87141-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:  
5/2/2022 6:41:01 PM

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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



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# Definitions/Glossary

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

Job ID: 320-87141-1

## 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: 320-87141-1

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**Job ID: 320-87141-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-87141-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/25/2022 12:00 PM. 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 21.1° 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: 320-87141-1

## Client Sample ID: GILBANEPM030122-1838

## Lab Sample ID: 320-87141-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.025	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0053		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1838

## Lab Sample ID: 320-87141-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	18.7019		0.2959	0.2959	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1839

## Lab Sample ID: 320-87141-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0014		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.018	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0023		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.1		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1839

## Lab Sample ID: 320-87141-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	14.0193		0.2815	0.2815	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1840

## Lab Sample ID: 320-87141-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0019		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.026	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0096		0.00068	0.000095	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: GILBANETSP030122-1840

## Lab Sample ID: 320-87141-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	48.2790		0.6507	0.6507	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1841

## Lab Sample ID: 320-87141-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00052	J	0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0093	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0018		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1841

## Lab Sample ID: 320-87141-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	19.8412		0.2867	0.2867	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: 320-87141-1

## Client Sample ID: GILBANEPM030122-1838

## Lab Sample ID: 320-87141-1

Date Collected: 04/20/22 06:51

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0023		0.00068	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:32	1
Copper	0.025	B	0.0014	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:32	1
Manganese	0.0053		0.00068	0.000095	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:32	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.28	0.28	ug/m3			04/26/22 09:00	1

## Client Sample ID: GILBANETSP030122-1838

## Lab Sample ID: 320-87141-2

Date Collected: 04/20/22 06:51

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.7019		0.2959	0.2959	ug/m3 (Air)			04/26/22 09:00	1

## Client Sample ID: GILBANEPM030122-1839

## Lab Sample ID: 320-87141-3

Date Collected: 04/20/22 06:45

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014		0.00068	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:35	1
Copper	0.018	B	0.0014	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:35	1
Manganese	0.0023		0.00068	0.000096	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:35	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.1		0.29	0.29	ug/m3			04/26/22 09:00	1

## Client Sample ID: GILBANETSP030122-1839

## Lab Sample ID: 320-87141-4

Date Collected: 04/20/22 06:45

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	14.0193		0.2815	0.2815	ug/m3 (Air)			04/26/22 09:00	1

## Client Sample ID: GILBANEPM030122-1840

## Lab Sample ID: 320-87141-5

Date Collected: 04/21/22 07:04

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0019		0.00068	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:39	1
Copper	0.026	B	0.0014	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:39	1
Manganese	0.0096		0.00068	0.000095	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:39	1

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# Client Sample Results

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

Job ID: 320-87141-1

**Client Sample ID: GILBANEPM030122-1840**

**Lab Sample ID: 320-87141-5**

Date Collected: 04/21/22 07:04

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

**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			04/26/22 09:00	1

**Client Sample ID: GILBANETSP030122-1840**

**Lab Sample ID: 320-87141-6**

Date Collected: 04/21/22 07:04

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.2790		0.6507	0.6507	ug/m3 (Air)			04/26/22 09:00	1

**Client Sample ID: GILBANEPM030122-1841**

**Lab Sample ID: 320-87141-7**

Date Collected: 04/21/22 06:49

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00052	J	0.00069	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:42	1
Copper	0.0093	B	0.0014	0.00010	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:42	1
Manganese	0.0018		0.00069	0.000097	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:42	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			04/26/22 09:00	1

**Client Sample ID: GILBANETSP030122-1841**

**Lab Sample ID: 320-87141-8**

Date Collected: 04/21/22 06:49

Matrix: Air

Date Received: 04/25/22 12:00

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	19.8412		0.2867	0.2867	ug/m3 (Air)			04/26/22 09:00	1

# QC Sample Results

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

Job ID: 320-87141-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-583911/1-B**  
**Matrix: Air**  
**Analysis Batch: 584524**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 583918**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:03	1
Copper	0.000532	J	0.0024	0.00018	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:03	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/29/22 08:25	04/29/22 15:03	1

**Lab Sample ID: LCS 320-583911/2-B**  
**Matrix: Air**  
**Analysis Batch: 584524**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 583918**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.234		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.229		ug/m3 (Air)		95	85 - 110
Manganese	0.240	0.234		ug/m3 (Air)		98	88 - 110

**Lab Sample ID: LCSD 320-583911/3-B**  
**Matrix: Air**  
**Analysis Batch: 584524**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 583918**

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	3	15
Copper	0.240	0.233		ug/m3 (Air)		97	85 - 110	2	15
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110	2	15

# QC Association Summary

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

Job ID: 320-87141-1

## Metals

### Pre Prep Batch: 583911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87141-1	GILBANEPM030122-1838	Total/NA	Air	Filter to Air	
320-87141-3	GILBANEPM030122-1839	Total/NA	Air	Filter to Air	
320-87141-5	GILBANEPM030122-1840	Total/NA	Air	Filter to Air	
320-87141-7	GILBANEPM030122-1841	Total/NA	Air	Filter to Air	
MB 320-583911/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-583911/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-583911/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 583918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87141-1	GILBANEPM030122-1838	Total/NA	Air	3050B	583911
320-87141-3	GILBANEPM030122-1839	Total/NA	Air	3050B	583911
320-87141-5	GILBANEPM030122-1840	Total/NA	Air	3050B	583911
320-87141-7	GILBANEPM030122-1841	Total/NA	Air	3050B	583911
MB 320-583911/1-B	Method Blank	Total/NA	Air	3050B	583911
LCS 320-583911/2-B	Lab Control Sample	Total/NA	Air	3050B	583911
LCSD 320-583911/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	583911

### Analysis Batch: 584524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87141-1	GILBANEPM030122-1838	Total/NA	Air	6020	583918
320-87141-3	GILBANEPM030122-1839	Total/NA	Air	6020	583918
320-87141-5	GILBANEPM030122-1840	Total/NA	Air	6020	583918
320-87141-7	GILBANEPM030122-1841	Total/NA	Air	6020	583918
MB 320-583911/1-B	Method Blank	Total/NA	Air	6020	583918
LCS 320-583911/2-B	Lab Control Sample	Total/NA	Air	6020	583918
LCSD 320-583911/3-B	Lab Control Sample Dup	Total/NA	Air	6020	583918

## General Chemistry

### Pre Prep Batch: 583181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87141-2	GILBANETSP030122-1838	Total/NA	Air	Filter to Air	
320-87141-4	GILBANETSP030122-1839	Total/NA	Air	Filter to Air	
320-87141-6	GILBANETSP030122-1840	Total/NA	Air	Filter to Air	
320-87141-8	GILBANETSP030122-1841	Total/NA	Air	Filter to Air	

### Analysis Batch: 584672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87141-1	GILBANEPM030122-1838	Total/NA	Air	PM10	
320-87141-3	GILBANEPM030122-1839	Total/NA	Air	PM10	
320-87141-5	GILBANEPM030122-1840	Total/NA	Air	PM10	
320-87141-7	GILBANEPM030122-1841	Total/NA	Air	PM10	

### Analysis Batch: 584674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87141-2	GILBANETSP030122-1838	Total/NA	Air	40CFR50 App B	583181
320-87141-4	GILBANETSP030122-1839	Total/NA	Air	40CFR50 App B	583181
320-87141-6	GILBANETSP030122-1840	Total/NA	Air	40CFR50 App B	583181
320-87141-8	GILBANETSP030122-1841	Total/NA	Air	40CFR50 App B	583181

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# Lab Chronicle

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

Job ID: 320-87141-1

**Client Sample ID: GILBANEPM030122-1838**

**Lab Sample ID: 320-87141-1**

**Date Collected: 04/20/22 06:51**

**Matrix: Air**

**Date Received: 04/25/22 12:00**

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					583911	04/29/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583918	04/29/22 08:25	NIM	TAL SAC
Total/NA	Analysis	6020		1			584524	04/29/22 15:32	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0288 g	584672	04/26/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1838**

**Lab Sample ID: 320-87141-2**

**Date Collected: 04/20/22 06:51**

**Matrix: Air**

**Date Received: 04/25/22 12:00**

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			584674	04/26/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:41	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1839**

**Lab Sample ID: 320-87141-3**

**Date Collected: 04/20/22 06:45**

**Matrix: Air**

**Date Received: 04/25/22 12:00**

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					583911	04/29/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583918	04/29/22 08:25	NIM	TAL SAC
Total/NA	Analysis	6020		1			584524	04/29/22 15:35	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0159 g	584672	04/26/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1839**

**Lab Sample ID: 320-87141-4**

**Date Collected: 04/20/22 06:45**

**Matrix: Air**

**Date Received: 04/25/22 12:00**

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			584674	04/26/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:41	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1840**

**Lab Sample ID: 320-87141-5**

**Date Collected: 04/21/22 07:04**

**Matrix: Air**

**Date Received: 04/25/22 12:00**

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					583911	04/29/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583918	04/29/22 08:25	NIM	TAL SAC
Total/NA	Analysis	6020		1			584524	04/29/22 15:39	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0447 g	584672	04/26/22 09:00	JMD	TAL SAC

# Lab Chronicle

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

Job ID: 320-87141-1

**Client Sample ID: GILBANETSP030122-1840**

**Lab Sample ID: 320-87141-6**

Date Collected: 04/21/22 07:04

Matrix: Air

Date Received: 04/25/22 12:00

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			584674	04/26/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:41	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1841**

**Lab Sample ID: 320-87141-7**

Date Collected: 04/21/22 06:49

Matrix: Air

Date Received: 04/25/22 12:00

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					583911	04/29/22 08:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	583918	04/29/22 08:25	NIM	TAL SAC
Total/NA	Analysis	6020		1			584524	04/29/22 15:42	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0183 g	584672	04/26/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1841**

**Lab Sample ID: 320-87141-8**

Date Collected: 04/21/22 06:49

Matrix: Air

Date Received: 04/25/22 12:00

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			584674	04/26/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					583181	04/26/22 16:41	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: 320-87141-1

## 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: 320-87141-1

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: 320-87141-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87141-1	GILBANEPM030122-1838	Air	04/20/22 06:51	04/25/22 12:00
320-87141-2	GILBANETSP030122-1838	Air	04/20/22 06:51	04/25/22 12:00
320-87141-3	GILBANEPM030122-1839	Air	04/20/22 06:45	04/25/22 12:00
320-87141-4	GILBANETSP030122-1839	Air	04/20/22 06:45	04/25/22 12:00
320-87141-5	GILBANEPM030122-1840	Air	04/21/22 07:04	04/25/22 12:00
320-87141-6	GILBANETSP030122-1840	Air	04/21/22 07:04	04/25/22 12:00
320-87141-7	GILBANEPM030122-1841	Air	04/21/22 06:49	04/25/22 12:00
320-87141-8	GILBANETSP030122-1841	Air	04/21/22 06:49	04/25/22 12:00

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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 # KT042122AIR**




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 April 2022

**Comments:**

**Equipment:**

Code	Matrix
A	Air

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



320-87141 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring April 2022													
Sample ID	Matrix	Date	Time	Samp 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	04/20/2022	0651	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1763.61 (M3)
2	A	04/20/2022	0651	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1689.67 (M3)
3	A	04/20/2022	0645	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1752.64 (M3)
4	A	04/20/2022	0645	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1776.12 (M3)
5	A	04/21/2022	0704	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1770.64 (M3)
6	A	04/21/2022	0704	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 768.45 (M3)
7	A	04/21/2022	0649	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1739.51 (M3)
8	A	04/21/2022	0649	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1743.85 (M3)
9													
10													

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	4/21/22	1600	[Redacted]	4/21/22	1600	Shipping Date: 4/21/2022 FedEx 7766 3536 8672
			EETSAC	4/28/22	12:00	Received by Laboratory: (Signature, Date, Time) & condition



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87141-1

**Login Number: 87141**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 320-87209-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:  
5/4/2022 6:31:09 PM

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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



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# Definitions/Glossary

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

Job ID: 320-87209-1

## 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: 320-87209-1

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**Job ID: 320-87209-1**

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**Laboratory: Eurofins Sacramento**

## Narrative

### Job Narrative 320-87209-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/27/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.4° C.

#### Metals

Method PM10: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANEPM031522-1876 (320-87209-5) and GILBANEPM031522-1877 (320-87209-7)

Method 40CFR50 App B: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANETSP031522-1876 (320-87209-6) and GILBANETSP031522-1877 (320-87209-8)

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



# Detection Summary

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

Job ID: 320-87209-1

## Client Sample ID: GILBANEPM030122-1842

## Lab Sample ID: 320-87209-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0013	J	0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.065		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0027	B	0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.86	0.86	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1842

## Lab Sample ID: 320-87209-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	4.9620		0.8861	0.8861	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM030122-1843

## Lab Sample ID: 320-87209-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00087	J	0.0020	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.023		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0018	J B	0.0020	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.0		0.85	0.85	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP030122-1843

## Lab Sample ID: 320-87209-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	12.1832		0.8461	0.8461	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM031522-1876

## Lab Sample ID: 320-87209-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0041		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.052		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0098	B	0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	35		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1876

## Lab Sample ID: 320-87209-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.8703		0.2998	0.2998	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM031522-1877

## Lab Sample ID: 320-87209-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0053		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0084	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1877

## Lab Sample ID: 320-87209-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	49.5680		0.2909	0.2909	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 320-87209-1

**Client Sample ID: GILBANEPM030122-1842**

**Lab Sample ID: 320-87209-1**

Date Collected: 04/21/22 15:03

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0013	J	0.0021	0.00031	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:39	1
Copper	0.065		0.0041	0.00031	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:39	1
Manganese	0.0027	B	0.0021	0.00029	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.86	0.86	ug/m3			04/29/22 10:15	1

**Client Sample ID: GILBANETSP030122-1842**

**Lab Sample ID: 320-87209-2**

Date Collected: 04/21/22 15:03

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	4.9620		0.8861	0.8861	ug/m3 (Air)			04/29/22 10:15	1

**Client Sample ID: GILBANEPM030122-1843**

**Lab Sample ID: 320-87209-3**

Date Collected: 04/21/22 15:08

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00087	J	0.0020	0.00031	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:55	1
Copper	0.023		0.0041	0.00031	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:55	1
Manganese	0.0018	J B	0.0020	0.00029	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.0		0.85	0.85	ug/m3			04/29/22 10:15	1

**Client Sample ID: GILBANETSP030122-1843**

**Lab Sample ID: 320-87209-4**

Date Collected: 04/21/22 15:08

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	12.1832		0.8461	0.8461	ug/m3 (Air)			04/29/22 10:15	1

**Client Sample ID: GILBANEPM031522-1876**

**Lab Sample ID: 320-87209-5**

Date Collected: 04/26/22 06:58

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0041		0.00070	0.00010	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:59	1
Copper	0.052		0.0014	0.00010	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:59	1
Manganese	0.0098	B	0.00070	0.000097	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:59	1

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# Client Sample Results

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

Job ID: 320-87209-1

**Client Sample ID: GILBANEPM031522-1876**

**Lab Sample ID: 320-87209-5**

Date Collected: 04/26/22 06:58

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35		0.29	0.29	ug/m3			04/29/22 10:15	1

**Client Sample ID: GILBANETSP031522-1876**

**Lab Sample ID: 320-87209-6**

Date Collected: 04/26/22 06:58

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.8703		0.2998	0.2998	ug/m3 (Air)			04/29/22 10:15	1

**Client Sample ID: GILBANEPM031522-1877**

**Lab Sample ID: 320-87209-7**

Date Collected: 04/26/22 06:46

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0053		0.00070	0.00010	ug/m3 (Air)		05/04/22 08:23	05/04/22 14:02	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		05/04/22 08:23	05/04/22 14:02	1
Manganese	0.0084	B	0.00070	0.000098	ug/m3 (Air)		05/04/22 08:23	05/04/22 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	27		0.29	0.29	ug/m3			04/29/22 10:15	1

**Client Sample ID: GILBANETSP031522-1877**

**Lab Sample ID: 320-87209-8**

Date Collected: 04/26/22 06:46

Matrix: Air

Date Received: 04/27/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.5680		0.2909	0.2909	ug/m3 (Air)			04/29/22 10:15	1

# QC Sample Results

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

Job ID: 320-87209-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-585065/1-B**  
**Matrix: Air**  
**Analysis Batch: 585253**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 585071**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:29	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:29	1
Manganese	0.000248	J	0.0012	0.00017	ug/m3 (Air)		05/04/22 08:23	05/04/22 13:29	1

**Lab Sample ID: LCS 320-585065/2-B**  
**Matrix: Air**  
**Analysis Batch: 585253**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 585071**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.242		ug/m3 (Air)		101	86 - 111
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110
Manganese	0.240	0.239		ug/m3 (Air)		99	88 - 110

**Lab Sample ID: LCSD 320-585065/3-B**  
**Matrix: Air**  
**Analysis Batch: 585253**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 585071**

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	3	15
Copper	0.240	0.235		ug/m3 (Air)		98	85 - 110	1	15
Manganese	0.240	0.244		ug/m3 (Air)		102	88 - 110	2	15

# QC Association Summary

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

Job ID: 320-87209-1

## Metals

### Pre Prep Batch: 585065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87209-1	GILBANEPM030122-1842	Total/NA	Air	Filter to Air	
320-87209-3	GILBANEPM030122-1843	Total/NA	Air	Filter to Air	
320-87209-5	GILBANEPM031522-1876	Total/NA	Air	Filter to Air	
320-87209-7	GILBANEPM031522-1877	Total/NA	Air	Filter to Air	
MB 320-585065/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-585065/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-585065/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 585071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87209-1	GILBANEPM030122-1842	Total/NA	Air	3050B	585065
320-87209-3	GILBANEPM030122-1843	Total/NA	Air	3050B	585065
320-87209-5	GILBANEPM031522-1876	Total/NA	Air	3050B	585065
320-87209-7	GILBANEPM031522-1877	Total/NA	Air	3050B	585065
MB 320-585065/1-B	Method Blank	Total/NA	Air	3050B	585065
LCS 320-585065/2-B	Lab Control Sample	Total/NA	Air	3050B	585065
LCSD 320-585065/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	585065

### Analysis Batch: 585253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87209-1	GILBANEPM030122-1842	Total/NA	Air	6020	585071
320-87209-3	GILBANEPM030122-1843	Total/NA	Air	6020	585071
320-87209-5	GILBANEPM031522-1876	Total/NA	Air	6020	585071
320-87209-7	GILBANEPM031522-1877	Total/NA	Air	6020	585071
MB 320-585065/1-B	Method Blank	Total/NA	Air	6020	585071
LCS 320-585065/2-B	Lab Control Sample	Total/NA	Air	6020	585071
LCSD 320-585065/3-B	Lab Control Sample Dup	Total/NA	Air	6020	585071

## General Chemistry

### Pre Prep Batch: 585155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87209-2	GILBANETSP030122-1842	Total/NA	Air	Filter to Air	
320-87209-4	GILBANETSP030122-1843	Total/NA	Air	Filter to Air	
320-87209-6	GILBANETSP031522-1876	Total/NA	Air	Filter to Air	
320-87209-8	GILBANETSP031522-1877	Total/NA	Air	Filter to Air	

### Analysis Batch: 585290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87209-1	GILBANEPM030122-1842	Total/NA	Air	PM10	
320-87209-3	GILBANEPM030122-1843	Total/NA	Air	PM10	
320-87209-5	GILBANEPM031522-1876	Total/NA	Air	PM10	
320-87209-7	GILBANEPM031522-1877	Total/NA	Air	PM10	

### Analysis Batch: 585308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87209-2	GILBANETSP030122-1842	Total/NA	Air	40CFR50 App B	585155
320-87209-4	GILBANETSP030122-1843	Total/NA	Air	40CFR50 App B	585155
320-87209-6	GILBANETSP031522-1876	Total/NA	Air	40CFR50 App B	585155
320-87209-8	GILBANETSP031522-1877	Total/NA	Air	40CFR50 App B	585155

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# Lab Chronicle

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

Job ID: 320-87209-1

**Client Sample ID: GILBANEPM030122-1842**

**Lab Sample ID: 320-87209-1**

**Date Collected: 04/21/22 15:03**

**Matrix: Air**

**Date Received: 04/27/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					585065	05/04/22 07:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585071	05/04/22 08:23	NIM	TAL SAC
Total/NA	Analysis	6020		1			585253	05/04/22 13:39	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0080 g	585290	04/29/22 10:15	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1842**

**Lab Sample ID: 320-87209-2**

**Date Collected: 04/21/22 15:03**

**Matrix: Air**

**Date Received: 04/27/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			585308	04/29/22 10:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM030122-1843**

**Lab Sample ID: 320-87209-3**

**Date Collected: 04/21/22 15:08**

**Matrix: Air**

**Date Received: 04/27/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					585065	05/04/22 07:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585071	05/04/22 08:23	NIM	TAL SAC
Total/NA	Analysis	6020		1			585253	05/04/22 13:55	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0053 g	585290	04/29/22 10:15	JMD	TAL SAC

**Client Sample ID: GILBANETSP030122-1843**

**Lab Sample ID: 320-87209-4**

**Date Collected: 04/21/22 15:08**

**Matrix: Air**

**Date Received: 04/27/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			585308	04/29/22 10:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM031522-1876**

**Lab Sample ID: 320-87209-5**

**Date Collected: 04/26/22 06:58**

**Matrix: Air**

**Date Received: 04/27/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					585065	05/04/22 07:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585071	05/04/22 08:23	NIM	TAL SAC
Total/NA	Analysis	6020		1			585253	05/04/22 13:59	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0608 g	585290	04/29/22 10:15	JMD	TAL SAC

# Lab Chronicle

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

Job ID: 320-87209-1

**Client Sample ID: GILBANETSP031522-1876**  
**Date Collected: 04/26/22 06:58**  
**Date Received: 04/27/22 09:35**

**Lab Sample ID: 320-87209-6**  
**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			585308	04/29/22 10:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM031522-1877**  
**Date Collected: 04/26/22 06:46**  
**Date Received: 04/27/22 09:35**

**Lab Sample ID: 320-87209-7**  
**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					585065	05/04/22 07:56	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585071	05/04/22 08:23	NIM	TAL SAC
Total/NA	Analysis	6020		1			585253	05/04/22 14:02	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0465 g	585290	04/29/22 10:15	JMD	TAL SAC

**Client Sample ID: GILBANETSP031522-1877**  
**Date Collected: 04/26/22 06:46**  
**Date Received: 04/27/22 09:35**

**Lab Sample ID: 320-87209-8**  
**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			585308	04/29/22 10:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	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: 320-87209-1

## 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: 320-87209-1

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: 320-87209-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87209-1	GILBANEPM030122-1842	Air	04/21/22 15:03	04/27/22 09:35
320-87209-2	GILBANETSP030122-1842	Air	04/21/22 15:03	04/27/22 09:35
320-87209-3	GILBANEPM030122-1843	Air	04/21/22 15:08	04/27/22 09:35
320-87209-4	GILBANETSP030122-1843	Air	04/21/22 15:08	04/27/22 09:35
320-87209-5	GILBANEPM031522-1876	Air	04/26/22 06:58	04/27/22 09:35
320-87209-6	GILBANETSP031522-1876	Air	04/26/22 06:58	04/27/22 09:35
320-87209-7	GILBANEPM031522-1877	Air	04/26/22 06:46	04/27/22 09:35
320-87209-8	GILBANETSP031522-1877	Air	04/26/22 06:46	04/27/22 09:35

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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 # KT042622AIR**



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 April 2022

Comments:

Equipment:

Analytical Test Method

Code	Matrix
A	Air

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



Event: Parcel E Phase 2 Air Monitoring April 2022												
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	04/21/2022	1503	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 583.10 (M3)
2	A	04/21/2022	1503	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 564.29 (M3)
3	A	04/21/2022	1508	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 588.23 (M3)
4	A	04/21/2022	1508	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 590.98 (M3)
5	A	04/26/2022	0658	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1723.78 (M3)
6	A	04/26/2022	0658	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1668.01 (M3)
7	A	04/26/2022	0646	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1719.87 (M3)
8	A	04/26/2022	0646	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1718.85 (M3)
9												
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	4/24/22	1605	[Redacted]	4/26/22	1600	Shipping Date: 4/26/2022 / FedEx 7766 8039 8196
				4-27-22	0935	Received by Laboratory: (Signature, Date, Time) & condition

18.4°C



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87209-1

**Login Number: 87209**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-87310-1  
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:  
5/6/2022 2:55:12 PM

[REDACTED]

### LINKS

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results through  
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The  
Expert**

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

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



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# Definitions/Glossary

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

Job ID: 320-87310-1

## 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: 320-87310-1

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## Job ID: 320-87310-1

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### Laboratory: Eurofins Sacramento

#### Narrative

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#### Job Narrative 320-87310-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/29/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.4° C.

#### Metals

Method PM10: A second weight was not taken during the initial tare weight process for GILBANEPM031522-1878 (320-87310-1), GILBANEPM031522-1879 (320-87310-3), GILBANEPM031522-1880 (320-87310-5) and GILBANEPM031522-1881 (320-87310-7). The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

Method 40CFR50 App B: A second weight was not taken during the initial tare weight process for GILBANETSP031522-1878 (320-87310-2), GILBANETSP031522-1879 (320-87310-4), GILBANETSP031522-1880 (320-87310-6) and GILBANETSP031522-1881 (320-87310-8). The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

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

# Detection Summary

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

Job ID: 320-87310-1

## Client Sample ID: GILBANEPM031522-1878

## Lab Sample ID: 320-87310-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0018		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.013		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1878

## Lab Sample ID: 320-87310-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.0809		0.3004	0.3004	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM031522-1879

## Lab Sample ID: 320-87310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.021		0.00079	0.00012	ug/m3 (Air)	1		6020	Total/NA
Copper	0.064		0.0016	0.00012	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.020		0.00079	0.00011	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	60		0.33	0.33	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1879

## Lab Sample ID: 320-87310-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	58.4807		0.3311	0.3311	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM031522-1880

## Lab Sample ID: 320-87310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025		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	0.0055		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	26		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1880

## Lab Sample ID: 320-87310-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.1222		0.3019	0.3019	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM031522-1881

## Lab Sample ID: 320-87310-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.014		0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.059		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.018		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	54		0.31	0.31	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1881

## Lab Sample ID: 320-87310-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	59.4960		0.3076	0.3076	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 320-87310-1

## Client Sample ID: GILBANEPM031522-1878

Lab Sample ID: 320-87310-1

Date Collected: 04/27/22 06:57

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0018		0.00069	0.00010	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:25	1
Copper	0.013		0.0014	0.00010	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:25	1
Manganese	0.0052		0.00069	0.000097	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:25	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			05/02/22 11:50	1

## Client Sample ID: GILBANETSP031522-1878

Lab Sample ID: 320-87310-2

Date Collected: 04/27/22 06:57

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.0809		0.3004	0.3004	ug/m3 (Air)			05/02/22 11:50	1

## Client Sample ID: GILBANEPM031522-1879

Lab Sample ID: 320-87310-3

Date Collected: 04/27/22 07:46

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.021		0.00079	0.00012	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:41	1
Copper	0.064		0.0016	0.00012	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:41	1
Manganese	0.020		0.00079	0.00011	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:41	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	60		0.33	0.33	ug/m3			05/02/22 11:50	1

## Client Sample ID: GILBANETSP031522-1879

Lab Sample ID: 320-87310-4

Date Collected: 04/27/22 07:46

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.4807		0.3311	0.3311	ug/m3 (Air)			05/02/22 11:50	1

## Client Sample ID: GILBANEPM031522-1880

Lab Sample ID: 320-87310-5

Date Collected: 04/28/22 06:46

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025		0.00069	0.00010	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:44	1
Copper	0.020		0.0014	0.00010	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:44	1
Manganese	0.0055		0.00069	0.000097	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:44	1

Eurofins Sacramento

# Client Sample Results

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

Job ID: 320-87310-1

**Client Sample ID: GILBANEPM031522-1880**

**Lab Sample ID: 320-87310-5**

Date Collected: 04/28/22 06:46

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	26		0.29	0.29	ug/m3			05/02/22 11:50	1

**Client Sample ID: GILBANETSP031522-1880**

**Lab Sample ID: 320-87310-6**

Date Collected: 04/28/22 06:46

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.1222		0.3019	0.3019	ug/m3 (Air)			05/02/22 11:50	1

**Client Sample ID: GILBANEPM031522-1881**

**Lab Sample ID: 320-87310-7**

Date Collected: 04/28/22 06:37

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.014		0.00074	0.00011	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:48	1
Copper	0.059		0.0015	0.00011	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:48	1
Manganese	0.018		0.00074	0.00010	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	54		0.31	0.31	ug/m3			05/02/22 11:50	1

**Client Sample ID: GILBANETSP031522-1881**

**Lab Sample ID: 320-87310-8**

Date Collected: 04/28/22 06:37

Matrix: Air

Date Received: 04/29/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.4960		0.3076	0.3076	ug/m3 (Air)			05/02/22 11:50	1

# QC Sample Results

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

Job ID: 320-87310-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-585173/1-B**  
**Matrix: Air**  
**Analysis Batch: 585549**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 585191**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:15	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:15	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/04/22 11:40	05/05/22 12:15	1

**Lab Sample ID: LCS 320-585173/2-B**  
**Matrix: Air**  
**Analysis Batch: 585549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 585191**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.237		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.228		ug/m3 (Air)		95	85 - 110
Manganese	0.240	0.235		ug/m3 (Air)		98	88 - 110

**Lab Sample ID: LCSD 320-585173/3-B**  
**Matrix: Air**  
**Analysis Batch: 585549**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 585191**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.224		ug/m3 (Air)		93	86 - 111	6	15
Copper	0.240	0.220		ug/m3 (Air)		91	85 - 110	4	15
Manganese	0.240	0.227		ug/m3 (Air)		94	88 - 110	4	15

# QC Association Summary

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

Job ID: 320-87310-1

## Metals

### Pre Prep Batch: 585173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87310-1	GILBANEPM031522-1878	Total/NA	Air	Filter to Air	
320-87310-3	GILBANEPM031522-1879	Total/NA	Air	Filter to Air	
320-87310-5	GILBANEPM031522-1880	Total/NA	Air	Filter to Air	
320-87310-7	GILBANEPM031522-1881	Total/NA	Air	Filter to Air	
MB 320-585173/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-585173/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-585173/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 585191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87310-1	GILBANEPM031522-1878	Total/NA	Air	3050B	585173
320-87310-3	GILBANEPM031522-1879	Total/NA	Air	3050B	585173
320-87310-5	GILBANEPM031522-1880	Total/NA	Air	3050B	585173
320-87310-7	GILBANEPM031522-1881	Total/NA	Air	3050B	585173
MB 320-585173/1-B	Method Blank	Total/NA	Air	3050B	585173
LCS 320-585173/2-B	Lab Control Sample	Total/NA	Air	3050B	585173
LCSD 320-585173/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	585173

### Analysis Batch: 585549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87310-1	GILBANEPM031522-1878	Total/NA	Air	6020	585191
320-87310-3	GILBANEPM031522-1879	Total/NA	Air	6020	585191
320-87310-5	GILBANEPM031522-1880	Total/NA	Air	6020	585191
320-87310-7	GILBANEPM031522-1881	Total/NA	Air	6020	585191
MB 320-585173/1-B	Method Blank	Total/NA	Air	6020	585191
LCS 320-585173/2-B	Lab Control Sample	Total/NA	Air	6020	585191
LCSD 320-585173/3-B	Lab Control Sample Dup	Total/NA	Air	6020	585191

## General Chemistry

### Pre Prep Batch: 585155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87310-2	GILBANETSP031522-1878	Total/NA	Air	Filter to Air	
320-87310-4	GILBANETSP031522-1879	Total/NA	Air	Filter to Air	
320-87310-6	GILBANETSP031522-1880	Total/NA	Air	Filter to Air	
320-87310-8	GILBANETSP031522-1881	Total/NA	Air	Filter to Air	

### Analysis Batch: 585762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87310-1	GILBANEPM031522-1878	Total/NA	Air	PM10	
320-87310-3	GILBANEPM031522-1879	Total/NA	Air	PM10	
320-87310-5	GILBANEPM031522-1880	Total/NA	Air	PM10	
320-87310-7	GILBANEPM031522-1881	Total/NA	Air	PM10	

### Analysis Batch: 585769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87310-2	GILBANETSP031522-1878	Total/NA	Air	40CFR50 App B	585155
320-87310-4	GILBANETSP031522-1879	Total/NA	Air	40CFR50 App B	585155
320-87310-6	GILBANETSP031522-1880	Total/NA	Air	40CFR50 App B	585155
320-87310-8	GILBANETSP031522-1881	Total/NA	Air	40CFR50 App B	585155

Eurofins Sacramento

# Lab Chronicle

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

Job ID: 320-87310-1

**Client Sample ID: GILBANEPM031522-1878**

**Lab Sample ID: 320-87310-1**

**Date Collected: 04/27/22 06:57**

**Matrix: Air**

**Date Received: 04/29/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					585173	05/04/22 11:20	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585191	05/04/22 11:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			585549	05/05/22 12:25	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0534 g	585762	05/02/22 11:50	JMD	TAL SAC

**Client Sample ID: GILBANETSP031522-1878**

**Lab Sample ID: 320-87310-2**

**Date Collected: 04/27/22 06:57**

**Matrix: Air**

**Date Received: 04/29/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			585769	05/02/22 11:50	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM031522-1879**

**Lab Sample ID: 320-87310-3**

**Date Collected: 04/27/22 07:46**

**Matrix: Air**

**Date Received: 04/29/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					585173	05/04/22 11:20	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585191	05/04/22 11:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			585549	05/05/22 12:41	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0905 g	585762	05/02/22 11:50	JMD	TAL SAC

**Client Sample ID: GILBANETSP031522-1879**

**Lab Sample ID: 320-87310-4**

**Date Collected: 04/27/22 07:46**

**Matrix: Air**

**Date Received: 04/29/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			585769	05/02/22 11:50	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM031522-1880**

**Lab Sample ID: 320-87310-5**

**Date Collected: 04/28/22 06:46**

**Matrix: Air**

**Date Received: 04/29/22 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					585173	05/04/22 11:20	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585191	05/04/22 11:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			585549	05/05/22 12:44	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0450 g	585762	05/02/22 11:50	JMD	TAL SAC

# Lab Chronicle

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

Job ID: 320-87310-1

**Client Sample ID: GILBANETSP031522-1880**

**Lab Sample ID: 320-87310-6**

Date Collected: 04/28/22 06:46

Matrix: Air

Date Received: 04/29/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			585769	05/02/22 11:50	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM031522-1881**

**Lab Sample ID: 320-87310-7**

Date Collected: 04/28/22 06:37

Matrix: Air

Date Received: 04/29/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					585173	05/04/22 11:20	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	585191	05/04/22 11:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			585549	05/05/22 12:48	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0880 g	585762	05/02/22 11:50	JMD	TAL SAC

**Client Sample ID: GILBANETSP031522-1881**

**Lab Sample ID: 320-87310-8**

Date Collected: 04/28/22 06:37

Matrix: Air

Date Received: 04/29/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			585769	05/02/22 11:50	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					585155	05/04/22 11:29	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: 320-87310-1

## 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: 320-87310-1

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: 320-87310-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87310-1	GILBANEPM031522-1878	Air	04/27/22 06:57	04/29/22 09:35
320-87310-2	GILBANETSP031522-1878	Air	04/27/22 06:57	04/29/22 09:35
320-87310-3	GILBANEPM031522-1879	Air	04/27/22 07:46	04/29/22 09:35
320-87310-4	GILBANETSP031522-1879	Air	04/27/22 07:46	04/29/22 09:35
320-87310-5	GILBANEPM031522-1880	Air	04/28/22 06:46	04/29/22 09:35
320-87310-6	GILBANETSP031522-1880	Air	04/28/22 06:46	04/29/22 09:35
320-87310-7	GILBANEPM031522-1881	Air	04/28/22 06:37	04/29/22 09:35
320-87310-8	GILBANETSP031522-1881	Air	04/28/22 06:37	04/29/22 09:35

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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 # KT042822AIR**



**Project Name:** Hunters Point Shipyard, Parcel E RA Phase 2  
**Project Number:** J310000400  
**WBS Code:** J310000400-016  
**Laboratory:** EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETIN)  
**POC:** [Redacted]  
**Ship to:** 880 Riverside Parkway, West Sacramento, CA 95605  
**Event:** Parcel E Phase 2 Air Monitoring April 2022


**Comments:**

**Equipment:**

**Analytical Test Method**

Code	Matrix
A	Air

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

  
 320-87310 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring April 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	04/27/2022	0657	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1739.63 (M3)
2	A	04/27/2022	0657	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1664.31 (M3)
3	A	04/27/2022	0746	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1511.52 (M3)
4	A	04/27/2022	0746	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1509.90 (M3)
5	A	04/28/2022	0646	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1727.02 (M3)
6	A	04/28/2022	0646	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1656.35 (M3)
7	A	04/28/2022	0637	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1622.18 (M3)
8	A	04/28/2022	0637	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1625.32 (M3)
9												
10												

Turnaround Time: 5 days

<b>Relinquished by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
[Redacted]	4/28/22	6:00	FedEx	4/28/22	1:50	Shipping Date: 4/28/2022 / FedEx 7767 0597 7206
			[Redacted]	4-29-22	0935	<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

17.4%



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87310-1

**Login Number: 87310**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 320-87453-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:  
5/11/2022 5:09:34 PM

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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

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# Definitions/Glossary

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

Job ID: 320-87453-1

## 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: 320-87453-1

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**Job ID: 320-87453-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-87453-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/4/2022 9:45 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 19.1° C.

**Metals**

Method PM10: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANEPM031522-1882 (320-87453-1) and GILBANEPM031522-1883 (320-87453-3)

Method 40CFR50 App B: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANETSP031522-1882 (320-87453-2) and GILBANETSP031522-1883 (320-87453-4)

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



# Detection Summary

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

Job ID: 320-87453-1

## Client Sample ID: GILBANEPM031522-1882

## Lab Sample ID: 320-87453-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0055		0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.080		0.0046	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.95	0.95	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1882

## Lab Sample ID: 320-87453-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.2258		0.9936	0.9936	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM031522-1883

## Lab Sample ID: 320-87453-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.024		0.0023	0.00035	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0047	0.00035	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.030		0.0023	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	50		0.97	0.97	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP031522-1883

## Lab Sample ID: 320-87453-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	57.6762		0.9743	0.9743	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: 320-87453-1

**Client Sample ID: GILBANEPM031522-1882**

**Lab Sample ID: 320-87453-1**

Date Collected: 04/28/22 13:54

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0055		0.0023	0.00034	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:10	1
Copper	0.080		0.0046	0.00034	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:10	1
Manganese	0.013		0.0023	0.00032	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.95	0.95	ug/m3			05/05/22 08:00	1

**Client Sample ID: GILBANETSP031522-1882**

**Lab Sample ID: 320-87453-2**

Date Collected: 04/28/22 13:54

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.2258		0.9936	0.9936	ug/m3 (Air)			05/11/22 14:00	1

**Client Sample ID: GILBANEPM031522-1883**

**Lab Sample ID: 320-87453-3**

Date Collected: 04/28/22 14:05

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.024		0.0023	0.00035	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:20	1
Copper	0.11		0.0047	0.00035	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:20	1
Manganese	0.030		0.0023	0.00033	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	50		0.97	0.97	ug/m3			05/05/22 08:00	1

**Client Sample ID: GILBANETSP031522-1883**

**Lab Sample ID: 320-87453-4**

Date Collected: 04/28/22 14:05

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	57.6762		0.9743	0.9743	ug/m3 (Air)			05/11/22 14:00	1

# QC Sample Results

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

Job ID: 320-87453-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-586384/1-B**  
**Matrix: Air**  
**Analysis Batch: 586555**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 586403**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/09/22 12:00	05/09/22 14:41	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/09/22 12:00	05/09/22 14:41	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/09/22 12:00	05/09/22 14:41	1

**Lab Sample ID: LCS 320-586384/2-B**  
**Matrix: Air**  
**Analysis Batch: 586555**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 586403**

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	0.232		ug/m3 (Air)		97	85 - 110
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110

**Lab Sample ID: LCSD 320-586384/3-B**  
**Matrix: Air**  
**Analysis Batch: 586555**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 586403**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.237		ug/m3 (Air)		99	86 - 111	1	15
Copper	0.240	0.227		ug/m3 (Air)		94	85 - 110	2	15
Manganese	0.240	0.235		ug/m3 (Air)		98	88 - 110	1	15

# QC Association Summary

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

Job ID: 320-87453-1

## Metals

### Pre Prep Batch: 586384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87453-1	GILBANEPM031522-1882	Total/NA	Air	Filter to Air	
320-87453-3	GILBANEPM031522-1883	Total/NA	Air	Filter to Air	
MB 320-586384/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-586384/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-586384/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 586403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87453-1	GILBANEPM031522-1882	Total/NA	Air	3050B	586384
320-87453-3	GILBANEPM031522-1883	Total/NA	Air	3050B	586384
MB 320-586384/1-B	Method Blank	Total/NA	Air	3050B	586384
LCS 320-586384/2-B	Lab Control Sample	Total/NA	Air	3050B	586384
LCSD 320-586384/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	586384

### Analysis Batch: 586555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87453-1	GILBANEPM031522-1882	Total/NA	Air	6020	586403
320-87453-3	GILBANEPM031522-1883	Total/NA	Air	6020	586403
MB 320-586384/1-B	Method Blank	Total/NA	Air	6020	586403
LCS 320-586384/2-B	Lab Control Sample	Total/NA	Air	6020	586403
LCSD 320-586384/3-B	Lab Control Sample Dup	Total/NA	Air	6020	586403

## General Chemistry

### Pre Prep Batch: 586983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87453-2	GILBANETSP031522-1882	Total/NA	Air	Filter to Air	
320-87453-4	GILBANETSP031522-1883	Total/NA	Air	Filter to Air	

### Analysis Batch: 586989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87453-1	GILBANEPM031522-1882	Total/NA	Air	PM10	
320-87453-3	GILBANEPM031522-1883	Total/NA	Air	PM10	

### Analysis Batch: 586991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87453-2	GILBANETSP031522-1882	Total/NA	Air	40CFR50 App B	586983
320-87453-4	GILBANETSP031522-1883	Total/NA	Air	40CFR50 App B	586983

# Lab Chronicle

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

Job ID: 320-87453-1

**Client Sample ID: GILBANEPM031522-1882**

**Lab Sample ID: 320-87453-1**

**Date Collected: 04/28/22 13:54**

**Matrix: Air**

**Date Received: 05/04/22 09:45**

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					586384	05/09/22 11:05	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586403	05/09/22 12:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			586555	05/09/22 15:10	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0164 g	586989	05/05/22 08:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP031522-1882**

**Lab Sample ID: 320-87453-2**

**Date Collected: 04/28/22 13:54**

**Matrix: Air**

**Date Received: 05/04/22 09:45**

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					586983	05/11/22 14:00	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			586991	05/11/22 14:00	JMD	TAL SAC

**Client Sample ID: GILBANEPM031522-1883**

**Lab Sample ID: 320-87453-3**

**Date Collected: 04/28/22 14:05**

**Matrix: Air**

**Date Received: 05/04/22 09:45**

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					586384	05/09/22 11:05	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586403	05/09/22 12:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			586555	05/09/22 15:20	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0258 g	586989	05/05/22 08:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP031522-1883**

**Lab Sample ID: 320-87453-4**

**Date Collected: 04/28/22 14:05**

**Matrix: Air**

**Date Received: 05/04/22 09:45**

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					586983	05/11/22 14:00	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			586991	05/11/22 14:00	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: 320-87453-1

## 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: 320-87453-1

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: 320-87453-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87453-1	GILBANEPM031522-1882	Air	04/28/22 13:54	05/04/22 09:45
320-87453-2	GILBANETSP031522-1882	Air	04/28/22 13:54	05/04/22 09:45
320-87453-3	GILBANEPM031522-1883	Air	04/28/22 14:05	05/04/22 09:45
320-87453-4	GILBANETSP031522-1883	Air	04/28/22 14:05	05/04/22 09:45

- 1
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- 9
- 10
- 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 # KT04822AAIR**



**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 April 2022

**Comments:**

**Equipment:**

Code	Matrix
A	Air

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



Event: Parcel E Phase 2 Air Monitoring April 2022												
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	GILBANEP031522-1882	04/28/2022	1354	KT	X		X	AMSE1	N2	0.00 0.00	1	VOLUME: 527.48 (M3)
2	GILBANETSP031522-1882	04/28/2022	1354	KT	X	X		AMSE1	N2	0.00 0.00	1	VOLUME: 503.20 (M3)
3	GILBANEP031522-1883	04/28/2022	1405	KT	X		X	AMSE2	N2	0.00 0.00	1	VOLUME: 513.17 (M3)
4	GILBANETSP031522-1883	04/28/2022	1405	KT	X		X	AMSE2	N2	0.00 0.00	1	VOLUME: 513.21 (M3)
5		TP	5/3/22									
6												
7												
8												
9												
10												

Turnaround Time: 5 days

Received by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	5/3/22	1600	Fedex	5/3/22	1600	Shipping Date: 5/3/2022
[Redacted]			[Redacted]	5-7-22	0945	Fedex 7767 4711 7650
						Received by Laboratory: (Signature, Date, Time) & condition

19102



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87453-1

**Login Number: 87453**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	

