

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

May 1st, 2022 through May 26th, 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



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Acronyms and Abbreviations

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

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 May 1st, 2022 through May 26th, 2022 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

1.0 Introduction

2.0 Monitoring Site Locations

Air monitoring stations were deployed at one upwind and 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).

Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at www.wunderground.com (see **Attachment 1**). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

- 1. Asbestos
- 2. Particulate matter less than 10 microns in diameter (PM10) and Metals (Copper, Lead, and Manganese)
- 3. Total suspended particulates (TSP)
- 4. Radiological air samplers

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 (ug/m³).

Table 4-1: Air Monitoring Threshold Criteria										
Test Parameter	Threshold Criteria	Threshold Criteria Reference								
Asbestos	0.1 fiber/cm ³	Cal/OSHA PEL								
PM10 ^a	5,000 ug/m ³	Cal/OSHA PEL								
		Basewide HPNS Level selected to								
TSP	0.5 mg/m ³	minimize overall permissible dust release								
		from sites								
Copper	1.0 mg/m ³	Cal/OSHA PEL								
Lead	0.050 mg/m ³	Cal/OSHA PEL								
Manganese	0.200 mg/m ³	Cal/OSHA PEL								
Radiological	10% of Effluent	Occupational and public air concentration								
	Concentration	limits for ROCs are published in 10 Code of								
	Values	Federal Regulations Part 20, Appendix B.								

Notes:

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

ug/m³ = micrograms per cubic meter

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

fiber/cm³ = fibers per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter less than 10 microns in diameter

ROC = radionuclide of concern

TSP = total suspended particulates

4.0 Air Monitoring Data Interpretation and Action Levels

5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as **Attachment 1**. Meteorological data for Stations 1 and 2 were sourced from the Weather Underground (wunderground.com) station Bayview Manor - KCASANFR1775.

Air Monitoring Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from May 1st, 2022 through May 26th, 2022, during which Gilbane was grading and managing radiological screening yard pads and transporting excavated material. 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 May 1st, 2022 through May 26th, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from May 1st, 2022 through May 26th, 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 May 1st, 2022 through May 26th, 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 May 1st, 2022 through May 26th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from May 1st, 2022 through May 26th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 6**.

Analytical laboratory reports and laboratory corrective actions 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 final tare weight of the filters. Although the final weight recording may have been miniscule, the data were qualified as estimated, due to the lack of confirmation. No other data quality issues were noted. The data, as qualified, should be considered usable for their intended purposes.

5.0 Air Monitoring Results

6.0 References

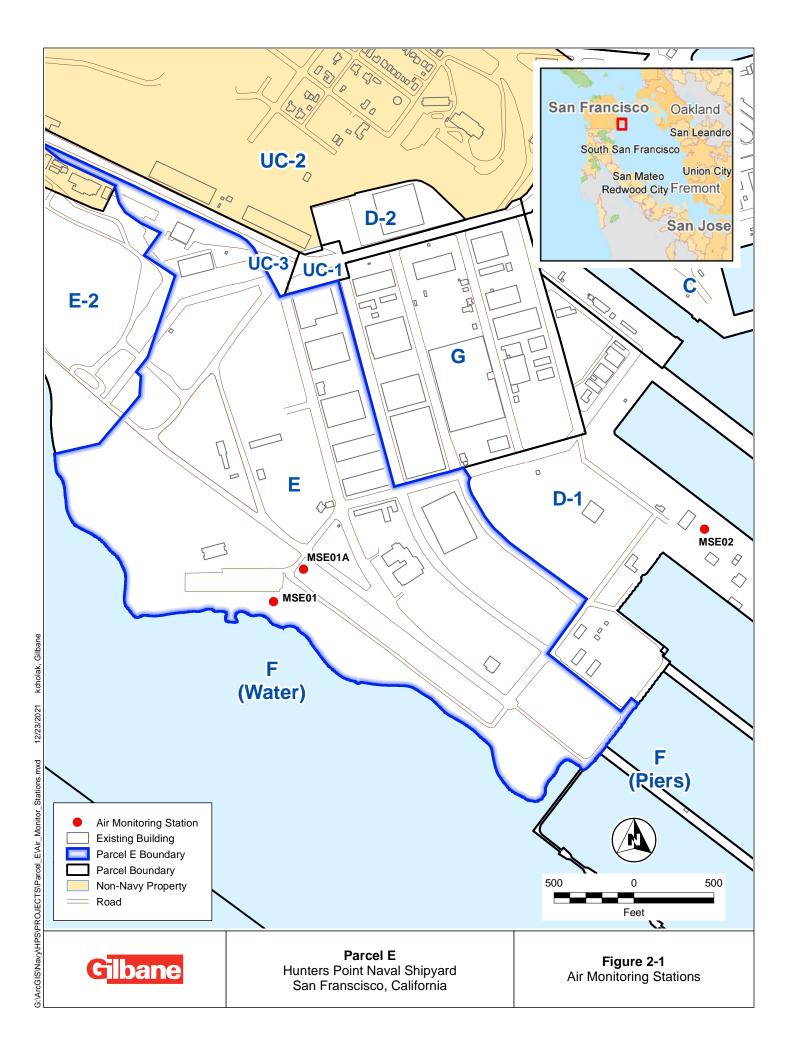
- Department of Toxic Substances Control (DTSC), 2017. Draft Technical Memorandum: Dust Action Levels for Parcel E, Hunters Point. May.
- National Institute for Occupational Safety and Health, (NIOSH), 1994. Manual of Analytical Methods.
- United States Environmental Protection Agency (EPA), 1999. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.
- Gilbane Federal, 2019a. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October
- Gilbane Federal, 2019b. Radiological Procedure PR-RP-150 *Radiological Survey and Sampling, Version 01,* October 1.

6.0 References

Figures

FIGURES

Figures



ATTACHMENT 1

AMBIENT PRESSURE, TEMPERATURE, AND PREVALENT WIND DIRECTION MONITORING RESULTS

Attachment 1

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
5/2/2022	30.01	54.06	West
5/3/2022	29.97	56.64	West
5/4/2022	29.96	53.61	WSW
5/5/2022	30.05	55.22	WSW
5/9/2022	30.08	50.92	WSW
5/10/2022	30.19	50.74	West
5/11/2022	30.26	52.77	West
5/12/2022	30.33	54.94	West
5/16/2022	30.03	53.85	West
5/17/2022	30.04	54.79	WSW
5/18/2022	30.01	60.89	WSW
5/19/2022	29.97	60.02	WSW
5/23/2022	29.90	56.21	WSW
5/24/2022	29.80	66.74	WSW
5/25/2022	29.82	58.65	West
5/26/2022	29.89	59.63	WSW
5/31/2022	29.92	57.29	WSW

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

Notes:

Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2 ASBESTOS MONITORING RESULTS

Attachment 2

Sample, Date a	and Station I	nformation	Sampler Run	Information	Asbestos Fibers			
Sample ID	Sample Start Date ¹	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm³)	Exceedance (Yes/No)	
MSE01-050222	05/02/22	1	525	1050	2.0	<0.003	No	
MSE02-050222	05/02/22	2	529	1058	65.0	0.030	No	
MSE01-050322	05/03/22	1	522	1044	5.0	<0.003	No	
MSE02-050322	05/03/22	2	525	1050	4.0	<0.003	No	
MSE01-050422	05/04/22	1	537	1074	3.0	<0.003	No	
MSE02-050422	05/04/22	2	541	1082	19.5	0.009	No	
MSE01-050522	05/05/22	1	448	896	1.5	<0.003	No	
MSE02-050522	05/05/22	2	454	908	1.0	<0.003	No	
MSE01-050922	05/09/22	1	524	1048	1.0	<0.003	No	
MSE02-050922	05/09/22	2	533	1066	10.0	0.005	No	
MSE01-051022	05/10/22	1	542	1084	4.5	<0.002	No	
MSE02-051022	05/10/22	2	547	1094	15.0	0.007	No	
MSE01-051122	05/11/22	1	566	1132	3.5	<0.002	No	
MSE02-051122	05/11/22	2	566	1132	0.0	<0.002	No	
MSE01-051222	05/12/22	1	453	906	1.0	<0.003	No	
MSE02-051222	05/12/22	2	450	900	16.5	0.009	No	
MSE01-051622	05/16/22	1	502	1004	3.0	< 0.003	No	
MSE02-051622	05/16/22	2	507	1014	24.0	0.012	No	
MSE01-051722	05/17/22	1	514	1028	4.5	< 0.003	No	
MSE02-051722	05/17/22	2	514	1028	6.0	0.003	No	
MSE01-051822	05/18/22	1	521	1042	1.0	< 0.003	No	
MSE02-051822	05/18/22	2	526	1052	1.5	< 0.003	No	
MSE01-051922	05/19/22	1	470	940	3.0	< 0.003	No	
MSE02-051922	05/19/22	2	465	930	23.0	0.012	No	
MSE01-052322	05/23/22	1	500	1000	9.5	0.005	No	
MSE02-052322	05/23/22	2	510	1020	0.0	<0.003	No	
MSE01-052422	05/24/22	1	512	1024	6.0	0.003	No	
MSE02-052422	05/24/22	2	521	1042	0.0	<0.003	No	
MSE01-052522	05/25/22	1	509	1018	9.0	0.004	No	
MSE02-052522	05/25/22	2	517	1034	6.0	0.003	No	
MSE01-052622	05/26/22	1	402	804	0.0	<0.003	No	
MSE02-052622	05/26/22	2	403	806	3.5	<0.003	No	
MSE01-053122	05/31/22	1	493	986	4.5	< 0.003	No	
MSE02-053122	05/31/22	2	516	1032	2.0	< 0.003	No	

Attachment 2: Asbestos Monitoring Results

Notes:

¹Sample "start" date indicates the date upon which sample collection began.

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

L = liter

min = minutes

fibers/cm³ = fibers per cubic centimeter

< = below detection limit

ATTACHMENT 3

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

Attachment 3

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

Sample, Date and St	Sample, Date and Station Information				PM10					
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concen- tration in Air (mg/m ³)	Delta between Downwind and Upwind (mg/m ³)	Delta between Downwind and Upwind (ug/m ³)	Cal/OSHA PEL (ug/m ³)	Exceedance (Yes/No)	HERO Action Level ³ (ug/m ³)	Exceedance (Yes/No)
GILBANEPM031522-1884	1	5/3/2022	1721.40	0.032 J						
GILBANEPM031522-1885	2	5/3/2022	1726.95	0.037 J	0.0050	5.0	5,000	No	50	No
GILBANEPM031522-1886	1	5/4/2022	1712.46	0.032 J						
GILBANEPM031522-1887	2	5/4/2022	1703.60	0.03 J	-0.0020	-2.0	5,000	No	50	No
GILBANEPM031522-1888	1	5/5/2022	1744.74	0.033 J						
GILBANEPM031522-1889	2	5/5/2022	1738.60	0.029 J	-0.0040	-4.0	5,000	No	50	No
GILBANEPM031522-1890	1	5/5/2022 ²	531.97	0.019 J						
GILBANEPM031522-1891	2	5/5/2022 ²	527.57	0.034 J	0.0150	15.0	5,000	No	50	No
GILBANEPM041222-1892	1	5/10/2022	1703.34	0.013						
GILBANEPM041222-1893	2	5/10/2022	1693.05	0.023	0.0100	10.0	5,000	No	50	No
GILBANEPM041222-1894	1	5/11/2022	1730.86	0.016						
GILBANEPM041222-1895	2	5/11/2022	1725.97	0.016	0.0000	0.0	5,000	No	50	No
GILBANEPM041222-1896	1	5/12/2022	1767.37	0.022						
GILBANEPM041222-1897	2	5/12/2022	1757.78	0.019	-0.0030	-3.0	5,000	No	50	No
GILBANEPM041222-1898	1	5/12/2022 ²	533.96	0.0099						
GILBANEPM041222-1899	2	5/12/2022 ²	533.34	0.019	0.0091	9.1	5,000	No	50	No
GILBANEPM041222-1900	1	5/17/2022	1733.43	0.025						
GILBANEPM041222-1901	2	5/17/2022	1723.16	0.030	0.0050	5.0	5,000	No	50	No
GILBANEPM041222-1902	1	5/18/2022	1735.36	0.036						
GILBANEPM041222-1903	2	5/18/2022	1718.87	0.035	-0.0010	-1.0	5,000	No	50	No
GILBANEPM041222-1904	1	5/19/2022	1741.13	0.039						
GILBANEPM041222-1905	2	5/19/2022	1728.36	0.032	-0.0070	-7.0	5,000	No	50	No
GILBANEPM041222-1906	1	5/19/2022 ²	554.34	0.056						
GILBANEPM041222-1907	2	5/19/2022 ²	554.66	0.055	-0.0010	-1.0	5,000	No	50	No
GILBANEPM042622-1908	1	5/24/2022	1719.02	0.042						
GILBANEPM042622-1909	2	5/24/2022	1714.42	0.038	-0.0040	-4.0	5,000	No	50	No
GILBANEPM042622-1910	1	5/25/2022	1751.97	0.037						
GILBANEPM042622-1911	2	5/25/2022	1739.20	0.031	-0.0060	-6.0	5,000	No	50	No
GILBANEPM042622-1912	1	5/26/2022	1726.43	0.086						
GILBANEPM042622-1913	2	5/26/2022	1721.34	0.024	-0.0620	-62.0	5,000	No	50	No
GILBANEPM042622-1914	1	5/26/2022 ²	477.34	0.024						
GILBANEPM042622-1915	2	5/26/2022 ²	475.02	0.017	-0.0070	-7.0	5,000	No	50	No

Notes:

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

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

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

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

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

m³ = cubic meters

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter smaller than 10 microns in diameter

ug/m³ = micrograms per cubic meter

ATTACHMENT 4

COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Attachment 4

Sample, Date and Station Information			Sampler Run Information	Сорг	ber	Lea	d	Manganese		
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	
GILBANETSP031522-1884	1	5/3/2022	1721.40	0.00004 J	No	0.0000027 J	No	0.000006 J	No	
GILBANETSP031522-1885	2	5/3/2022	1726.95	0.000014 J	No	0.000005 J	No	0.000013 J	No	
GILBANETSP031522-1886	1	5/4/2022	1712.46	0.000048 J	No	0.0000027 J	No	0.0000079 J	No	
GILBANETSP031522-1887	2	5/4/2022	1703.60	0.0000087 J	No	0.000003 J	No	0.0000077 J	No	
GILBANETSP031522-1888	1	5/5/2022 ²	1744.74	0.000035 J	No	0.0000051 J	No	0.000011 J	No	
GILBANETSP031522-1889	2	5/5/2022 ²	1738.60	0.000023 J	No	0.0000067 J	No	0.00001 J	No	
GILBANETSP031522-1890	1	5/5/2022	531.97	0.000037 J	No	0.000002 J	No	0.0000079 J	No	
GILBANETSP031522-1891	2	5/5/2022	527.57	0.00037 J	No	0.0000054 J	No	0.000012 J	No	
GILBANETSP041222-1892	1	5/10/2022	1703.34	0.000055	No	0.00000910	No	0.0000045	No	
GILBANETSP041222-1893	2	5/10/2022	1693.05	0.00023	No	0.00000410	No	0.0000095	No	
GILBANETSP041222-1894	1	5/11/2022	1730.86	0.000033	No	0.00000350	No	0.00000750	No	
GILBANETSP041222-1895	2	5/11/2022	1725.97	0.000012	No	0.00000440	No	0.00000920	No	
GILBANETSP041222-1896	1	5/12/2022	1767.37	0.000061	No	0.00001200	No	0.00001000	No	
GILBANETSP041222-1897	2	5/12/2022	1757.78	0.000017	No	0.00000350	No	0.00001200	No	
GILBANETSP041222-1898	1	5/12/2022 ²	533.96	0.000037	No	0.00000280	No	0.00000690	No	
GILBANETSP041222-1899	2	5/12/2022 ²	533.34	0.000035	No	0.00000710	No	0.00001600	No	
GILBANETSP041222-1900	1	5/17/2022	1733.43	0.000015	No	0.00000200	No	0.00000760	No	
GILBANETSP041222-1901	2	5/17/2022	1723.16	0.000013	No	0.00000580	No	0.00001200	No	
GILBANETSP041222-1902	1	5/18/2022	1735.36	0.000037	No	0.00000180	No	0.00000500	No	
GILBANETSP041222-1903	2	5/18/2022	1718.87	0.000016	No	0.00000360	No	0.00000690	No	
GILBANETSP041222-1904	1	5/19/2022	1741.13	0.000092	No	0.00000290	No	0.00000810	No	
GILBANETSP041222-1905	2	5/19/2022	1728.36	0.000016	No	0.00000220	No	0.00000520	No	
GILBANETSP041222-1906	1	5/19/2022 ²	554.34	0.000038	No	0.00000690	No	0.00002200	No	
GILBANETSP041222-1907	2	5/19/2022 ²	554.66	0.000029	No	0.00001300	No	0.00002300	No	
GILBANETSP042622-1908	1	5/24/2022	1719.02	0.000026	No	0.00000480	No	0.00000730	No	
GILBANETSP042622-1909	2	5/24/2022	1714.42	0.000015	No	0.00000300	No	0.00000750	No	
GILBANETSP042622-1910	1	5/25/2022	1751.97	0.000190	No	0.00000390	No	0.00000930	No	
GILBANETSP042622-1911	2	5/25/2022	1739.20	0.000031	No	0.00000320	No	0.00000730	No	
GILBANETSP042622-1912	1	5/26/2022	1726.43	0.000120	No	0.00001000	No	0.00003400	No	
GILBANETSP042622-1913	2	5/26/2022	1721.34	0.000028	No	0.00000630	No	0.00001400	No	
GILBANETSP042622-1914	1	5/26/2022 ²	477.34	0.000110	No	0.00000310	No	0.00001300	No	
GILBANETSP042622-1915	2	5/26/2022 ²	475.02	0.000052	No	0.00000330	No	0.0000089	No	

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

 $^2\rm{Air}$ sample was taken down during the afternoon after field activities ceased. Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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

ATTACHMENT 5 TOTAL SUSPENDED PARTICULATES MONITORING RESULTS

Attachment 5

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Sample, Date and St	ation Inform	ation	Sampler Run Information	Tot	Total Suspended Particulates							
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Volume Monitored		Basewide HPNS Level (mg/m ³)	Exceedance (Yes/No)					
GILBANETSP031522-1884	1	5/3/2022	1668.60	0.0428503 J								
GILBANETSP031522-1885	2	5/3/2022	1733.07	0.0775502 J	0.035	0.5	No					
GILBANETSP031522-1886	1	5/4/2022	1658.62	0.0448566 J								
GILBANETSP031522-1887	2	5/4/2022	1707.87	07.87 0.0531071 J		0.5	No					
GILBANETSP031522-1888	1	5/5/2022 ²	1670.62	0.0498617 J								
GILBANETSP031522-1889	2	5/5/2022 ²	1741.75	0.0626382 J	0.013	0.5	No					
GILBANETSP031522-1890	1	5/5/2022	516.31	0.0269218 J								
GILBANETSP031522-1891	2	5/5/2022	530.25	0.038661 J	0.012	0.5	No					
GILBANETSP041222-1892	1	5/10/2022	1629.20	0.0187822								
GILBANETSP041222-1893	2	5/10/2022	1697.99	0.0335102	0.015	0.5	No					
GILBANETSP041222-1894	1	5/11/2022	1646.46	0.0245375								
GILBANETSP041222-1895	2	5/11/2022	1722.63	0.0323923	0.008	0.5	No					
GILBANETSP041222-1896	1	5/12/2022	1684.77	0.0359693								
GILBANETSP041222-1897	2	5/12/2022	1758.76	0.0406536	0.005	0.5	No					
GILBANETSP041222-1898	1	5/12/2022 ²	508.92	0.0062878								
GILBANETSP041222-1899	2	5/12/2022 ²	532.62	0.0469378	0.041	0.5	No					
GILBANETSP041222-1900	1	5/17/2022	1653.65	0.0399117								
GILBANETSP041222-1901	2	5/17/2022	1723.64	0.0758279	0.036	0.5	No					
GILBANETSP041222-1902	1	5/18/2022	1658.42	0.0515551								
GILBANETSP041222-1903	2	5/18/2022	1734.00	0.0585352	0.007	0.5	No					
GILBANETSP041222-1904	1	5/19/2022	1666.40	0.0490278								
GILBANETSP041222-1905	2	5/19/2022	1732.70	0.0486524	-0.0004	0.5	No					
GILBANETSP041222-1906	1	5/19/2022 ²	482.22	0.0966364								
GILBANETSP041222-1907	2	5/19/2022 ²	557.50	0.0965022	-0.0001	0.5	No					
GILBANETSP042622-1908	1	5/24/2022	1639.04	0.059059								
GILBANETSP042622-1909	2	5/24/2022	1715.64	0.0616679	0.003	0.5	No					
GILBANETSP042622-1910	1	5/25/2022	1670.87	0.0489565								
GILBANETSP042622-1911	2	5/25/2022	1745.79	0.0403829	-0.009	0.5	No					
GILBANETSP042622-1912	1	5/26/2022	1647.72	0.1167067								
GILBANETSP042622-1913	2	5/26/2022	1723.08	0.0466606 -0.070 0.5		No						
GILBANETSP042622-1914	1	5/26/2022 ²	458.13	0.0355794								
GILBANETSP042622-1915	2	5/26/2022 ²	480.50	0.0345473	-0.001	0.5	No					

Attachment 5: Total Suspended Particulates Monitoring Results

Notes:

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

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

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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ATTACHMENT 6 AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

Attachment 6

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	AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORIN Project Information Color Codes Color Codes														URING							
			F	Project Inform	nation				Effluent Air Concentration Sampling Period					iod			Color	Codes				
Contract /	Task Order Num	ber: Project Ti	itle / Locati	on:		Gilbane Project I	Number:					Alpha	Beta	Air sa	amples colle	ected		Value < 0).1 x Efflue	ent Conc (i.e	e., < 10%)	
N6247	3-17-D-0005 / F4	332	Parcel E	RA HPNS, S	F, CA	J3	10000400			Radi	onuclide	Ra-226	Sr-90	between	02 May 202	22		Value > 0	.1 x Efflue	ent Conc (i.e	e., > 10%)	
		Info	ormation e	ffective as of:	29 Jun 2022				Effluent Conc (μCi/ml) 9.E-13 6.E-12 and 31 May 2022					22	Value > Effluent Conc (i.e., > 100%)							
			ļ	Sample Colle	ction							Count I	Informatio	n			Sample Results Initials				tials	
Sample	Sample	Sample	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data
Number	Туре	Location	No	Rate (Ipm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer
AS-0537	Perimeter	MSE01	PE11	60	5/2/22 6:45	5/2/22 15:50	545	3.3E+07	D	05/09/22	1	cpm	0.00	5.65	0.0	12.5	0.0E+00	1.7E-13	0.0%	2.9%	BCS	CB
AS-0538	Perimeter	MSE02	PE12	60	5/2/22 6:35	5/2/22 15:42	547	3.3E+07	D	05/09/22	1	cpm	0.40	3.15	1.1	5.5	1.5E-14	7.5E-14	1.7%	1.3%	BCS	CB
AS-0539	Perimeter	MSE01	PE11	60	5/3/22 4:10	5/3/22 15:34	684	4.1E+07	D	05/09/22	1	cpm	0.10	4.95	0.3	10.6	3.1E-15	1.2E-13	0.3%	1.9%	BCS	CB
AS-0540	Perimeter	MSE02	PE12	60	5/3/22 4:00	5/3/22 15:30	690	4.1E+07	D	05/09/22	1	cpm	0.20	3.65	0.6	6.9	6.1E-15	7.5E-14	0.7%	1.3%	BCS	СВ
AS-0541	Perimeter	MSE01	PE11	60	5/4/22 4:10	5/4/22 15:24	674	4.0E+07	D	05/09/22	1	cpm	0.05	4.30	0.1	8.7	1.6E-15	9.7E-14	0.2%	1.6%	BCS	СВ
AS-0542	Perimeter	MSE02	PE12	60	5/4/22 4:00	5/4/22 15:18	678	4.1E+07	D	05/09/22	1	cpm	0.05	3.50	0.1	6.5	1.5E-15	7.2E-14	0.2%	1.2%	BCS	CB
AS-0543	Perimeter	MSE01	PE11	60	5/5/22 3:55	5/5/22 13:55	600	3.6E+07	D	05/09/22	1	cpm	0.20	4.45	0.6	9.2	7.0E-15	1.1E-13	0.8%	1.9%	BCS	CB
AS-0544	Perimeter	MSE02	PE12	60	5/5/22 4:00	5/5/22 14:02	602	3.6E+07	D	05/09/22	1	cpm	0.05	4.30	0.1	8.7	1.7E-15	1.1E-13	0.2%	1.8%	BCS	CB
AS-0545	Perimeter	MSE01	PE11	60	5/9/22 6:40	5/9/22 15:52	552	3.3E+07	D	05/16/22	1	cpm	0.15	4.25	0.4	8.6	5.7E-15	1.2E-13	0.6%	1.9%	BCS	CB
AS-0546	Perimeter	MSE02	PE12	60	5/9/22 6:56	5/9/22 15:30	514	3.1E+07	D	05/16/22	1	cpm	0.20	5.15	0.6	11.1	8.1E-15	1.6E-13	0.9%	2.7%	BCS	СВ
AS-0547	Perimeter	MSE01	PE11	60	5/10/22 4:05	5/10/22 15:53	708	4.2E+07	D	05/16/22	1	cpm	0.15	3.10	0.4	5.4	4.4E-15	5.7E-14	0.5%	0.9%	BCS	СВ
AS-0548	Perimeter	MSE02	PE12	60	5/10/22 4:15	5/10/22 15:49	694	4.2E+07	D	05/16/22	1	cpm	0.10	4.65	0.3	9.7	3.0E-15	1.1E-13	0.3%	1.8%	BCS	CB
AS-0549	Perimeter	MSE01	PE11	60	5/11/22 3:50	5/11/22 15:56	726	4.4E+07	D	05/16/22	1	cpm	0.05	3.85	0.1	7.5	1.4E-15	7.7E-14	0.2%	1.3%	BCS	СВ
AS-0550	Perimeter	MSE02	PE12	60	5/11/22 4:00	5/11/22 15:48	708	4.2E+07	D	05/16/22	1	cpm	0.10	4.30	0.3	8.7	3.0E-15	9.3E-14	0.3%	1.5%	BCS	CB
AS-0551	Perimeter	MSE01	PE11	60	5/12/22 4:00	5/12/22 15:18	678	4.1E+07	D	05/16/22	1	cpm	0.10	4.70	0.3	9.9	3.1E-15	1.1E-13	0.3%	1.8%	BCS	СВ
AS-0552	Perimeter	MSE02	PE12	60	5/12/22 4:10	5/12/22 14:16	606	3.6E+07	D	05/16/22	1	cpm	0.15	4.35	0.4	8.9	5.2E-15	1.1E-13	0.6%	1.8%	BCS	СВ
AS-0553	Perimeter	MSE01	PE11	60	5/16/22 6:50	5/16/22 15:15	505	3.0E+07	Е	05/31/22	1	cpm	0.40	4.10	2.5	8.8	3.7E-14	1.3E-13	4.2%	2.2%	BCS	СВ
AS-0554	Perimeter	MSE02	PE12	60	5/16/22 6:40	5/16/22 15:07	507	3.0E+07	Е	05/31/22	1	cpm	0.35	3.45	2.2	6.8	3.3E-14	1.0E-13	3.6%	1.7%	BCS	CB
AS-0555	Perimeter	MSe01	PE11	60	5/17/22 3:50	5/17/22 15:22	692	4.2E+07	Е	05/31/22	1	cpm	0.10	4.70	0.6	10.6	6.8E-15	1.2E-13	0.8%	1.9%	BCS	CB
AS-0556	Perimeter	MSE02	PE12	60	5/17/22 3:55	5/17/22 15:19	684	4.1E+07	Е	05/31/22	1	cpm	0.15	4.05	0.9	8.6	1.0E-14	9.5E-14	1.2%	1.6%	BCS	CB
AS-0557	Perimeter	MSE01	PE11	60	5/18/22 3:55	5/18/22 15:19	684	4.1E+07	Е	05/31/22	1	cpm	0.05	4.85	0.3	11.1	3.5E-15	1.2E-13	0.4%	2.0%	BCS	CB
AS-0558	Perimeter	MSE02	PE12	60	5/18/22 4:00	5/18/22 15:12	672	4.0E+07	Е	05/31/22	1	cpm	0.30	4.10	1.9	8.8	2.1E-14	9.8E-14	2.3%	1.6%	BCS	СВ
AS-0559	Perimeter	MSE01	PE11	60	5/19/22 4:05	5/19/22 14:15	610	3.7E+07	E	05/31/22	1	cpm	0.25	4.30	1.6	9.4	1.9E-14	1.2E-13	2.2%	1.9%	BCS	СВ
AS-0560	Perimeter	MSE02	PE12	60	5/19/22 4:00	5/19/22 14:19	619	3.7E+07	Е	05/31/22	1	cpm	0.30	3.55	1.9	7.1	2.3E-14	8.6E-14	2.5%	1.4%	BCS	СВ
AS-0561	Perimeter	MSE01	PE11	60	5/23/22 6:36	5/23/22 15:19	523	3.1E+07	E	05/31/22	1	cpm	0.40	4.90	2.5	11.2	3.6E-14	1.6E-13	4.0%	2.7%	BCS	СВ
AS-0562	Perimeter	MSE02	PE12	60	5/23/22 6:35	5/23/22 15:23	528	3.2E+07	Е	05/31/22	1	cpm	0.20	3.85	1.3	8.0	1.8E-14	1.1E-13	2.0%	1.9%	BCS	СВ
AS-0563	Perimeter	MSE01	PE11	60	5/24/22 4:05	5/24/22 15:13	668	4.0E+07	Е	05/31/22	1	cpm	0.15	3.25	0.9	6.2	1.1E-14	7.0E-14	1.2%	1.2%	BCS	СВ
AS-0564	Perimeter	MSE02	PE12	60	5/24/22 3:55	5/24/22 15:09	674	4.0E+07	Е	05/31/22	1	cpm	0.30	3.90	1.9	8.2	2.1E-14	9.1E-14	2.3%	1.5%	BCS	СВ
AS-0565	Perimeter	MSE01	PE11	60	5/25/22 4:00	5/25/22 15:11	671	4.0E+07	E	05/31/22	1	cpm	0.05	3.85	0.3	8.0	3.5E-15	9.0E-14	0.4%	1.5%	BCS	СВ
AS-0566	Perimeter	MSE02	PE12	60	5/25/22 3:50	5/25/22 15:09	679	4.1E+07	Е	05/31/22	1	cpm	0.10	5.20	0.6	12.1	7.0E-15	1.3E-13	0.8%	2.2%	BCS	СВ
AS-0567	Perimeter	MSE01	PE11	60	5/26/22 3:55	5/26/22 13:10	555	3.3E+07	Е	05/31/22	1	cpm	0.15	3.85	0.9	8.0	1.3E-14	1.1E-13	1.4%	1.8%	BCS	СВ
AS-0568	Perimeter	MSE02	PE12	60	5/26/22 4:00	5/26/22 13:09	549	3.3E+07	Е	05/31/22	1	cpm	0.10	3.80	0.6	7.9	8.6E-15	1.1E-13	1.0%	1.8%	BCS	СВ
AS-0569	Perimeter	MSE01	PE11	60	5/31/22 6:45	5/31/22 15:34	529	3.2E+07	Е	06/06/22	1	cpm	0.35	4.25	2.2	9.2	3.1E-14	1.3E-13	3.5%	2.2%	BCS	СВ
AS-0570	Perimeter	MSE02	PE12	60	5/31/22 6:35	5/31/22 15:30	535	3.2E+07	Е	06/06/22	1	cpm	0.20	4.10	1.3	8.8	1.8E-14	1.2E-13	2.0%	2.1%	BCS	СВ

Gilbane

AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

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ATTACHMENT 7 LABORATORY REPORTS

Attachment 7

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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:		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 :	

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

Client Sample ID MSE01-042822	Sample Collection Date & Time 4/28/2022 14:11	Matrix Cassette	A&B Job Sample ID 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

Released By:	
Title:	Vice President Operations

Analyst:



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

ab-q210-0321

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 - /	lient: 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
22050377.01	MSE01-042822	04/28/2022	Area	2			446	892	100	7	8.917	0.004		05/06/22	
22050377.02	MSE02-042822	04/28/2022	Area	2			446	892	100	12.5	15.924	0.007		05/06/22	
22050377.03	MSE01-050222	05/02/2022	Area	2			525	1050	100	2	2.548	< 0.003		05/06/22	
22050377.04	MSE02-050222	05/02/2022	Area	2			529	1058	100	65.0	82.803	0.030		05/06/22	

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 : 22050377	Date Received : 05/04/2022 Time Received : 2:5	51PM					
Clie	ent Name : GES - ASRC Industrial							
Ter	nperature : 19.8°C	Sample pH : NA						
The	ermometer ID : IR3	pH Paper ID : NA						
Pe	rservative :				I			
		Check Points	Yes	No	N/A			
1.	Cooler Seal present and signed.		Х					
2.	Sample(s) in a cooler.			х				
3.	If yes, ice in cooler.			Х				
4.	Sample(s) received with chain-of-cust	ody.	Х					
5.	C-O-C signed and dated.	Х						
6.	6. Sample(s) received with signed sample custody seal.							
7.	Sample containers arrived intact. (If N	o comment)	Х					
8.	Water Soil Liquid Sle Matrix:	udge Solid Cassette Tube Bulk Badge Food Other Image: I						
9.	Samples were received in appropriate	container(s)	х					
10.	Sample(s) were received with Proper p	preservative			Х			
11.	All samples were tagged or labeled.		х					
12.	Sample ID labels match C-O-C ID's.		х					
13.	Bottle count on C-O-C matches bottles	found.	х					
14.	4. Sample volume is sufficient for analyses requested.							
15.	Samples were received with in the hole	х						
16.	16. VOA vials completely filled.							
17.	17. Sample accepted.							
18.	Has client been contacted about sub-o	ut			х			

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Received black cassettes. ~EV 5/4/2022

Received by :

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

www.ablabs.com

Gilbane			Chain-Of-Custody
Project Name and Number: HPNS Parcel	E Phase II J310000400	 Laboratory Name: <u>A&B Labs</u> 	5/03/2022
Project Manage		Address: 10100 East Fwy Ste. 100 Contact Na	e: Page:_1of _1
Site Location: Hunters Point, San Francis	co, CA 94124	Houston TX 77029	
	1 1 1	Analysis:	
Sample ID D	Time Sample Depth (top) Sample Depth (bottom)	No. of Containers None None Asbestos Lilter Asbestos	Flow Rate = 2 L/min
	Ti Sa Sa	Z S Filter	Total Time (min)
MSE01-042822 () A 4/28/2022	1411 NA NA	1 AA X	446
MSE02-042822 0214 4/28/2022	1403 NA NA	1 AA X	446
MSE01-050222 03A 5/02/2022	1549 NA NA	1 AA X	525
MSE02-050222 04A 5/02/2022	1537 NA NA	1 AA X	529
Job ID:22050377	TP 5/3/22		
05/04/2022 GES - ASRC Industrial	ACH	ler:	Durier/Airbill No.: FedEx/ 7767 4706 1540
Signature:	Relinqu	ished By Date: Time: F	ceived By/ Affiliation: Date: Time:
Special Instructions:		1 Gilbane 5/312 1600 FEDEX 5-4-22 14:51	Feder 1 5/3/22 1600 5-4-2214:51
Send Results to: Turnaround Time: <u>Standard</u>			



FedEx Ship Manager - Print Your Label(s)



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5

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ol in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Laboratory Analysis Report

Job ID: 22050827



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: Attn:	GES - ASRC Industrial	Total Number of Pages: P.O.#. :	5 J310000400-0015
	Client Address:		Date Received :	05/06/2022 16:27
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-050322	Sample Collection Date & Time 5/3/2022 15:39	Matrix Cassette	A&B Job Sample ID 22050827.01
MSE02-050322	5/3/2022 15:33	Cassette	22050827.02
MSE01-050422	5/4/2022 15:27	Cassette	22050827.03
MSE02-050422	5/4/2022 15:22	Cassette	22050827.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

5/12/2022



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

Date 5/12/2022

Job ID : 22050827 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	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
22050827.01	MSE01-050322	05/03/2022	Area	2			522	1044	100	5	6.369	< 0.003		05/12/22	
22050827.02	MSE02-050322	05/03/2022	Area	2			525	1050	100	4.0	5.096	< 0.003		05/12/22	
22050827.03	MSE01-050422	05/04/2022	Area	2			537	1074	100	3	3.822	< 0.003		05/12/22	
22050827.04	MSE02-050422	05/04/2022	Area	2			541	1082	100	19.5	24.841	0.009		05/12/22	

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 : 22050827	Date Received : 05/06/2022 Time Received : 4:2	27PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 23.1°C	Sample pH : NA			
The	ermometer ID : IR3	pH Paper ID : NA			
Pe	rservative :		1		1
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		Х		
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.				х
4.	Sample(s) received with chain-of-cust	ody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sampl	e custody seal.		Х	
7.	Sample containers arrived intact. (If N	o comment)	Х		
8.	Water Soil Liquid SI Matrix:	udge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate	container(s)	Х		
10.	Sample(s) were received with Proper	preservative			х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analys	es requested.	Х		
15.	Samples were received with in the hol	d time.	х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			х

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Received black cassettes. ~EV 5/9/2022

Received by :

Check in by/date : / 05/09/2022

ab-s005-0321

www.ablabs.com

Event ID: Air Monitoring May 2022

COC# KT050522ASB

	Gilbane											Chain-C)f-Cus	tody	'
	Project Name and Number Project Manager Site Location: <u>Hunters Poin</u>				00		_abora Addres	s: <u>1</u>	0100 East Fwy S Iouston TX 77029	te. 100	Contact I	Name	5/ Page: <u>1</u>	05/2022 of _1	
				Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos Voi	Analysis:				Flow Rat	e = 2 L/mi	n
	Sample ID	Date	Time	Samp	Samp	No. 0	Samp	Cont	ainer Type: Iter				Special Inst Total Time	tructions/Cor	nments
1	MSE01-050322	5/03/2022	1539	NA	NA	1	AA	х					522		
	MSE02-050322	5/03/2022	1533	NA	NA	1	AA	X					525		
	MSE01-050422	5/04/2022	1527	NA	NA	1	AA	x					537		
1	MSE02-050422	5/04/2022	1522	NA	NA	1	AA	x					541		
	Job ID:2205082				TP	5	15/	22							
JE	/2022 GES - ASRC Industrial	ACH	1		Canad		1					Courier/Airbill No.: FedEx	17767 6051 853	0	
	Sampled By		-	— [Sampl					Data	771		077070751655		Times
	Signature:				Relinqu	ished E	3y/Affilia	ation:		Date:	Time:	Received By/ Affiliation:		Date:	Time:
	Special Instructions:					7	Eder	0	1 Gilbane	5/5/20 5/6/77	1600 m	Feder		5/5/22	1600 16:37
								*******		1-0	16:47				16:27
	Send Results to:														
	Turnaround Time: Standard														



Page 5 of 5

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Cuide apply. Your right to recover from FedEx for any loss, incuding intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental.consequential, or special is limited to the greater of \$100 or the authorized declared datue. Recovery cannot excered actual documented loss.Maximum for items of extraordinary value is \$1,1000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Signature 5 Date.

Laboratory Analysis Report

Job ID: 22051202



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:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	05/11/2022 16:06
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-050522	Sample Collection Date & Time 5/5/2022 14:05	Matrix Cassette	A&B Job Sample ID 22051202.01
MSE02-050522	5/5/2022 14:01	Cassette	22051202.02
MSE01-050922	5/9/2022 15:32	Cassette	22051202.03
MSE02-050922	5/9/2022 15:51	Cassette	22051202.04

Title:	Vice President Operations

Analyst:



Title:

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ab-q210-0321

5/18/2022



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

Date 5/18/2022

Job ID : 22051202 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
22051202.01	MSE01-050522	05/05/2022	Area	2			448	896	100	1.5	1.911	< 0.003		05/18/22	
22051202.02	MSE02-050522	05/05/2022	Area	2			454	908	100	1	1.274	< 0.003		05/18/22	
22051202.03	MSE01-050922	05/09/2022	Area	2			524	1048	100	1	1.274	< 0.003		05/18/22	
22051202.04	MSE02-050922	05/09/2022	Area	2			533	1066	100	10.0	12.739	0.005		05/18/22	

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 : 22051202	Date Received : 05/11/2022 Time Received : 4:	06PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 18.3°C	Sample pH : NA			
The	rmometer ID : IR3	pH Paper ID : NA			
Pe	rservative :		1		
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		х		
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.				х
4.	Sample(s) received with chain-of-cust	ody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	e custody seal.		х	
7.	Sample containers arrived intact. (If N	o comment)	х		
8.	Water Soil Liquid Slu Matrix:	udge Solid Cassette Tube Bulk Badge Food Other Image: I			
9.	Samples were received in appropriate	container(s)	х		
10.	Sample(s) were received with Proper p	preservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		х		
13.	Bottle count on C-O-C matches bottles	found.	х		
14.	Sample volume is sufficient for analyse	es requested.	х		
15.	Samples were received with in the hole	d time.	х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			х

Comments : Include actions taken to resolve discrepancies/problem:

Black Cassettes. No cooler was received; however, sample are received in a bow with custody seal. ~JE 05/11/22

Received by :

Phone :

Check in by/date : / 05/11/2022

Event ID: Air Monitoring May 2022

COC# KT051022ASB

Gilbane	9											Chain	-Of-Cus	tody	/
Project Name and Number	r: <u>HPNS Parcel</u>	E Phase II J	3100004	100	-	Labor	atory	Name:	A&B	Labs				10/2022	
Project Manager						Addre			East Fwy	/ Ste. 100	Contac	ct Name			
Site Location: Hunters I	oint, San Francis	co, CA 94	124		-				n TX 77				Page: <u>1</u>	of	<u> </u>
		1	1	1	E	1		Analy					1		
			Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos	ervative							
		0	ple I	ple L	of Co	ple N	No						Flow Rate	= 2 L/m	in
Sample ID	Date	Time	Sam	Sam	No.	Sam	Cont	ainer Ty ilter	pe:				Special Inst	uctions/Co	mments
MSE01-050522	5/05/2022	1405	NA	NA	1	AA	x						Total Time		
MSE02-050522	5/05/2022	1401	NA	NA	1	AA	x						448	OIA	
MSE01-050922	5/09/2022	1532	NA	NA	1	AA	X						524	02A	
MSE02-050922	5/09/2022	1551	NA	NA	1	AA	x						533	03A 04A	
Job	GES - ASRC Indus		сн	-											
			1		_										75
Sampled By: _				Sample	≥r:							Courier/Airbill No .: Fe	dEx/ 7768 1072 6451		
Signature:			Ē	Relinquis	shee o	y// think				Date:	Time:	Received By/ Affiliation	r.	Date:	Time:
Special Instructions: <u>N &</u>			_				GIL	n		5/02	r loos	fidle	1	5/10/22	1600
Send Results to: Turnaround Time: <u>Standar</u>	rd												150.6° C 112		



1/1

Page 5 of 5

Laboratory Analysis Report

Job ID: 22051587



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:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	05/13/2022 15:29
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-051022	Sample Collection Date & Time 5/10/2022 15:36	Matrix Cassette	A&B Job Sample ID 22051587.01
MSE02-051022	5/10/2022 15:27	Cassette	22051587.02
MSE01-051122	5/11/2022 15:54	Cassette	22051587.03
MSE02-051122	5/11/2022 15:45	Cassette	22051587.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

5/20/2022



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

Date 5/20/2022

Job ID : 22051587 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
22051587.01	MSE01-051022	05/10/2022	Area	2			542	1084	100	4.5	5.732	< 0.002		05/20/22	
22051587.02	MSE02-051022	05/10/2022	Area	2			547	1094	100	15.0	19.108	0.007		05/20/22	
22051587.03	MSE01-051122	05/11/2022	Area	2			566	1132	100	3.5	4.459	< 0.002		05/20/22	
22051587.04	MSE02-051122	05/11/2022	Area	2			566	1132	100	0	0.000	< 0.002		05/20/22	

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 : 22051587 Date Received : 05/13/2022 Time Received : 3:29PM								
Clie	ent Name : GES - ASRC Industrial								
Ter	nperature : 18.7°C	Sample pH : N/A							
The	ermometer ID : IR3	pH Paper ID : N/A							
Pe	rservative :		T	T					
		Check Points	Yes	No	N/A				
1.	Cooler Seal present and signed.		Х						
2.	Sample(s) in a cooler.		х						
3.	3. If yes, ice in cooler.								
4.	Sample(s) received with chain-of-cust	Х							
5.	5. C-O-C signed and dated.								
6.	6. Sample(s) received with signed sample custody seal.								
7.	7. Sample containers arrived intact. (If No comment)								
8.	Water Soil Liquid SI Matrix:	udge Solid Cassette Tube Bulk Badge Food Other							
9.	Samples were received in appropriate	container(s)	Х						
10.	Sample(s) were received with Proper	preservative			Х				
11.	All samples were tagged or labeled.		х						
12.	Sample ID labels match C-O-C ID's.		Х						
13.	Bottle count on C-O-C matches bottles	s found.	Х						
14.	es requested.	Х							
15.	5. Samples were received with in the hold time.								
16.	6. VOA vials completely filled.								
17.	7. Sample accepted.								
18.	3. Has client been contacted about sub-out X								

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received however, samples received in box with custody seal. Received black cassettes. -CH 05/16/22

Received by :

Check in by/date : / 05/16/2022

www.ablabs.com

Event ID: Air Monitoring May 2022

СОС# КТ051222АSB

roject Name and Number: roject Manager ite Location: <u>Hunters Point</u>	HPNS Parcel I			00		Labora	ss: <u>1</u>	0100 Iousto	East Fy n TX 7			Contact	Name	 	— — Pag		2/2022 of _1	
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	Anal ervative ne ainer T I t e r	Č.						Specia		= 2 L/mii ctions/Con	
SE01-051022 01A	5/10/2022	1536	NA	NA	1	AA	х								542	11110)	
SE02-051022 02A	5/10/2022	1527	NA	NA	1	AA	X								547			
SE01-051122 03A	5/11/2022	1554	NA	NA	1	AA	x					2 2 2 2			566			
SE02-051122 OYP	5/11/2022	1545	NA	NA	1	AA	х				_				566			
ob ID:2205158	7	IP	5/	12/2	2													
			1															
ampled By:			-	Sample									Courier/Airbill No.: Fee	lEx/ 776	68 3091	2040		
ignature:			F	Relinqui	shed E	By/Affilia	ation:				Date:	Time:	Received By/ Affiliation	:			Date:	Time:
pecial Instructions:								10	silbo	ine	5/12/22	1600	Feder	1			5/12/22	1600
							EDt	-X		5-1	3-22	1529				5-	13-22	1529
Send Results to:	-														1			







Page 5 of 5

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Laboratory Analysis Report

Job ID: 22052024



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: Attn:	GES - ASRC Industrial	Total Number of Pages: P.O.#. :	5 J310000400-0015
	Client Address:		Date Received :	05/18/2022 15:44
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-051222	Sample Collection Date & Time 5/12/2022 14:24	Matrix Cassette	A&B Job Sample ID 22052024.01
MSE02-051222	5/12/2022 14:12	Cassette	22052024.02
MSE01-051622	5/16/2022 15:15	Cassette	22052024.03
MSE02-051622	5/16/2022 15:09	Cassette	22052024.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

5/25/2022



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 5/25/2022

Job ID : 22052024 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	NS Parcel E F	Phase II J	131000040	00					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
22052024.01	MSE01-051222	05/12/2022	Area	2			453	906	100	1	1.274	< 0.003		05/25/22	
22052024.02	MSE02-051222	05/12/2022	Area	2			450	900	100	16.5	21.019	0.009		05/25/22	
22052024.03	MSE01-051622	05/16/2022	Area	2			502	1004	100	3	3.822	< 0.003		05/25/22	
22052024.04	MSE02-051622	05/16/2022	Area	2			507	1014	100	24.0	30.573	0.012		05/25/22	

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&	AB JobID : 22052024 Date Received : 05/18/2022 Time Received : 3:44PM										
Clie	Client Name : GES - ASRC Industrial										
Ter	nperature : 23.7°C	Sample pH : NA									
The	Thermometer ID : IR3 pH Paper ID : NA										
Pe	Perservative :										
		Check Points	Yes	No	N/A						
1.	1. Cooler Seal present and signed.										
2.	2. Sample(s) in a cooler.										
3. If yes, ice in cooler.											
4.	4. Sample(s) received with chain-of-custody.										
5.	5. C-O-C signed and dated.										
6.	6. Sample(s) received with signed sample custody seal.										
7.											
8.	Water Soil Liquid Slu Matrix:	dge Solid Cassette Tube Bulk Badge Food Other Image: Im									
9.	Samples were received in appropriate of	container(s)	Х								
10.	Sample(s) were received with Proper p	reservative			Х						
11.	All samples were tagged or labeled.		Х								
12.	Sample ID labels match C-O-C ID's.		х								
13.	Bottle count on C-O-C matches bottles	found.	х								
14.	Sample volume is sufficient for analyse	s requested.	х								
15.	5. Samples were received with in the hold time.										
16.	6. VOA vials completely filled.										
17.	7. Sample accepted. X										
18.	. Has client been contacted about sub-out X										

Comments : Include actions taken to resolve discrepancies/problem:

Black Cassettes. Noo cooler was received; however, samples are received in a box with custody seal. ~JE 05/18/22

Received by :

Phone :

Check in by/date : / 05/18/2022

ab-s005-0321

Gilbane												Cha	in-Of	-Cus	tody	9
Project Name and Number: Project Manage	HPNS Parcel F)0		Labora Addres	s: <u>1</u>	lame: Al 0100 East Iouston T2	and the second	100	Contact N	Name:		<u>{</u> Page: <u>1</u>	5/17/2022 of _1	
			1				1	Analysis:		1	1			_		
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	ervative: ne ainer Type: Iter						i	t te = 2 L/mir structions/Con ne (min)	
MSE01-051222	5/12/2022	1424	NA	NA	1	AA	Х							453	DIA	
MSE02-051222	5/12/2022	1412	NA	NA	1	AA	x							450	OZA	
MSE01-051622	5/16/2022	1515	NA	NA	1	AA	x							502	03A-	
MSE02-051622	5/16/2022	1509	NA	NA	1	AA	X				_			507	OHA	
Job ID:22	SRC Industrial	ACH													¥	
Sampled By:				Sample	ər:							Courier/Airbil	II No.: FedEx/ 7	768 6824 79	00	
Signature:			F	Relinqui	shea E	sy/Amin	ation			Date:	Time:	Received By/	Affiliation:		Date:	Time:
Special Instructions:	re					1	EDE	X		T17/2	216a	Red GS			5/n/22	160
Send Results to: Turnaround Time: <u>Standar</u>	d													3.7°C 1	23	



5

Laboratory Analysis Report

Job ID: 22052305



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: Attn:	GES - ASRC Industrial	Total Number of Pages: P.O.#. :	5 J310000400-0015
	Client Address:		Date Received :	05/20/2022 15:24
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-051722	5/17/2022 15:21	Cassette	22052305.01
WISE01-051722	5/17/2022 15.21	Casselle	22052305.01
MSE02-051722	5/17/2022 15:14	Cassette	22052305.02
MSE01-051822	5/18/2022 15:22	Cassette	22052305.03
MSE02-051822	5/18/2022 15:16	Cassette	22052305.04

Title:	Vice President Operations
inde.	vice i resident operations

Analyst:



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ab-q210-0321

5/27/2022



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

Date 5/27/2022

Job ID : 22052305 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	NS Parcel E I	Phase II J	131000040	00					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
22052305.01	MSE01-051722	05/17/2022	Area	2			514	1028	100	4.5	5.732	< 0.003		05/26/22	
22052305.02	MSE02-051722	05/17/2022	Area	2			514	1028	100	6.0	7.643	0.003		05/26/22	
22052305.03	MSE01-051822	05/18/2022	Area	2			521	1042	100	1	1.274	< 0.003		05/26/22	
22052305.04	MSE02-051822	05/18/2022	Area	2			526	1052	100	1.5	1.911	< 0.003		05/26/22	

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 : 22052305	Date Received : 05/20/2022 Time Received : 3:2	24PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 22.8°C	Sample pH : NA			
The	ermometer ID : IR3	pH Paper ID : NA			
Pe	rservative :		1		T
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		Х		
2.	Sample(s) in a cooler.			х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-cust	ody.			Х
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	e custody seal.		х	
7.	Sample containers arrived intact. (If N	o comment)	х		
8.	Water Soil Liquid Slu Matrix:	udge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate	container(s)	Х		
10.	Sample(s) were received with Proper p	preservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		х		
13.	Bottle count on C-O-C matches bottles	found.	х		
14.	Sample volume is sufficient for analyse	es requested.	х		
15.	Samples were received with in the hole	d time.	х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		х		
18.	Has client been contacted about sub-o	ut			х

Comments : Include actions taken to resolve discrepancies/problem:

Received samples in black cassettes. No cooler was received, however samples are received in a box with a custody seal. ~EV 5/23/2022

Received by :

Phone :

Check in by/date / 05/23/2022

Event ID: Air Monitoring May 2022

COC# KT051922ASB

Gilbar	ne													С	hair	01-ר	f-Cu	sto	ody	/	1
Project Name and Nu	umber:	HPNS Parcel E	Phase II J3	100004	00	- 1	abora	tory N	lame:	A&E	B Labs	5						5/19/2	2022		1
Project Manage	ters Point,	San Francisc	o, CA 941	24			Addres	s: <u>1</u>	0100	East Fy on TX 7		. 100	Contact N	Nam			— Page	e: <u>1</u>	_of _1		
					1		1		Ana	lysis:											1
Sample ID		Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Non Conta	rvativ e iner T I t e r								Special	Rate =	ions/Cor		
MSE01-051722	OPA	5/17/2022	1521	NA	NA	1	AA	x									514	Time (m	in)	77	1
MSE02-051722	AZA	5/17/2022	1514	NA	NA	1	AA	х									514				
MSE01-051822	03A	5/18/2022	1522	NA	NA	1	AA	x				1					521				1
MSE02-051822	OYA	5/18/2022	1516	NA	NA	1	AA	х									526				
Job 05/20/2022 Sampled By: Signature:		205230)5 асн		Sample		y/Affilia	atiop!				Date:	Time:		Airbill No.: d By/ Affilia		768 9594		Date:	Time:	6
Special Instructions:	Nor			[0	1kn		5-;	5/19/21 20-2	2 1600 2 15:24			Л		5-	5 (9/12		
Send Results to:																					ZI
Turnaround Time: S	standard								1												Ī



Laboratory Analysis Report

Job ID: 22052763



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: Attn:	GES - ASRC Industrial	Total Number of Pages: P.O.#. :	5 J310000400-0015
	Client Address:		Date Received :	05/25/2022 15:47
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-051922	Sample Collection Date & Time 5/19/2022 14:26	Matrix Cassette	A&B Job Sample ID 22052763.01
MSE02-051922	5/19/2022 14:10	Cassette	22052763.02
MSE01-052322	5/23/2022 15:19	Cassette	22052763.03
MSE02-052322	5/23/2022 15:15	Cassette	22052763.04

Title: Vice President Operations

Analyst:



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ab-q210-0321

6/2/2022



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 6/2/2022

Job ID : 22052763 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPN	NS Parcel E F	Phase II .	31000040	00					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
22052763.01	MSE01-051922	05/19/2022	Area	2			470	940	100	3	3.822	< 0.003		06/02/22	
22052763.02	MSE02-051922	05/19/2022	Area	2			465	930	100	23.0	29.299	0.012		06/02/22	
22052763.03	MSE01-052322	05/23/2022	Area	2			500	1000	100	9.5	12.102	0.005		06/02/22	
22052763.04	MSE02-052322	05/23/2022	Area	2			510	1020	100	0	0.000	< 0.003		06/02/22	

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 : 22052763	Date Received : 05/25/2022 Time Received : 3:	47PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 23.1°C	Sample pH : NA			
The	ermometer ID : IR3	pH Paper ID : NA			
Pe	rservative :			1	1
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		Х		
2.	Sample(s) in a cooler.			х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-cust	ody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed samp	e custody seal.		Х	
7.	Sample containers arrived intact. (If N	lo comment)	Х		
8.	Water Soil Liquid S Matrix:	udge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate	container(s)	х		
10.	Sample(s) were received with Proper	preservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottle	5 found.	Х		
14.	Sample volume is sufficient for analys	es requested.	Х		
15.	Samples were received with in the ho	d time.	х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		х		
18.	Has client been contacted about sub-	put			х

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 5/26/2022

Received by :

Check in by/date : / 05/26/2022

www.ablabs.com

Event ID: Air Monitoring May 2022

СОС# КТ052422ASB

Gilba	ne											Chain	-Of	-Cust	ody
Project Name and N	umber: I	HPNS Parcel E	Phase II J3	1000040	00	- L	abora	tory Na	me: <u>A&B</u>	Labs				5/2	4/2022
Project Manage							Addres		100 East Fv	vy Ste. 100	Contact	Name: 4		— Page: <u>1</u>	of _1
Site Location: Hur	nters Point,	San Francisc	o, CA 941	24		-		He	ouston TX 7	7029			1.11		
		1		1	1		1		Analysis:						
				Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos Leser						Flow Rate	= 2 L/min
Sample ID		Date	Time	Sample	Sample	No. of	Sample	None Contai Fil	ner Type:					Special Instru Total Time	uctions/Comments (min)
ISE01-051922	DIA	5/19/2022	1426	NA	NA	1	AA	X						470	
ISE02-051922	OZA	5/19/2022	1410	NA	NA	1	AA	x						465	
ISE01-052322	03A	5/23/2022	1519	NA	NA	1	AA	x						500	
ISE02-052322	OVA	5/23/2022	1515	NA	NA	1	AA	x						510	
		052763													
05/25/2022	GES - ASR	C Industrial	ACH												A
		i	ļ		!	!	1						- ID / 69	760 4410 5004	10.
Sampled By			-		Sampl	e						Courier/Airbill No.:]	FedEx/ /	/69 4410 5984	
Signature:					Relinqu	isnea e	y/Amin	ation:		Date	e: Time:	Received By/ Affiliat	ion:		Date: Time:
Special Instructions:	(7	Glbane	pet	1/2 1/00	Fedex	1		ishda 11.00
5. 				_	4 39-1			E E	Filme	5-26	-ZZ15.14	1 CUCA		5-	26 22 15:47
Send Results to:							/								
Turnaround Time:	Standard														



After printing this label:

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(signati CUS⁻ N N 5 N . S Person Collecting Sample **GEL Laboratories, LLC** 4 14 Date Collected

https://www.fedex.com/shipping/shipAction.handle?method=doContinue

Laboratory Analysis Report

Job ID: 22053033



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: Attn:	GES - ASRC Industrial	Total Number of Pages: P.O.#. :	5 J310000400-0015
	Client Address:		Date Received :	05/27/2022 15:10
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-052422	Sample Collection Date & Time 5/24/2022 15:18	Matrix Cassette	A&B Job Sample ID 22053033.01
MSE02-052422	5/24/2022 15:15	Cassette	22053033.02
MSE01-052522	5/25/2022 15:15	Cassette	22053033.03
MSE02-052522	5/25/2022 15:11	Cassette	22053033.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

Report Number: RPT220606089



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 6/6/2022

Job ID : 22053033 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPN	NS Parcel E F	Phase II J	131000040	00				1	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
22053033.01	MSE01-052422	05/24/2022	Area	2			512	1024	100	6.0	7.643	0.003		06/03/22	
22053033.02	MSE02-052422	05/24/2022	Area	2			521	1042	100	0	0.000	< 0.003		06/03/22	
22053033.03	MSE01-052522	05/25/2022	Area	2			509	1018	100	9.0	11.465	0.004		06/03/22	
22053033.04	MSE02-052522	05/25/2022	Area	2			517	1034	100	6	7.643	0.003		06/03/22	

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 : 22053033	Date Received : 05/27/2022 Time Received : 3:	10PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 23.1°C	Sample pH : NA			
The	ermometer ID : IR3	pH Paper ID : NA			
Pe	rservative :				
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		х		
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.				х
4.	Sample(s) received with chain-of-cust	ody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	e custody seal.		х	
7.	Sample containers arrived intact. (If N	o comment)	Х		
8.	Water Soil Liquid Sli Matrix:	udge Solid Cassette Tube Bulk Badge Food Other Image: I			
9.	Samples were received in appropriate	container(s)	х		
10.	Sample(s) were received with Proper p	preservative			х
11.	All samples were tagged or labeled.		х		
12.	Sample ID labels match C-O-C ID's.		х		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analyse	es requested.	х		
15.	Samples were received with in the hole	d time.	х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		х		
18.	Has client been contacted about sub-o	ut			х

Comments : Include actions taken to resolve discrepancies/problem:

Black Cassettes. No cooler was received; however, samples are received in a box with custody seal. ~JE 05/27/22

Received by :

Check in by/date : / 05/27/2022

www.ablabs.com

Project Name and Number	HPNS Parcel E	Phase II [3	1000040	0		_abora Addres			A&B L	abs Ste. 100	0	Contact	Nam		<u>5/</u> Page: <u>1</u>	26/2022 of 1	
Project Manage Site Location: <u>Hunters P</u>	oint, San Francisc	o, CA 941	24			lunca			n TX 77						rage.	0/	
			1	1		1	C	Analysis:									
Job ID:22	CO53033	ж	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Matrix	Asbestos	arvative								214	
Sample ID	Date	Time	Sample I	Sample I	No. of C	Sample Matrix	Nor									e = 2 L/mir tructions/Com e (min)	
MSE01-052422	5/24/2022	1518	NA	NA	1	AA	X								512		
ASE02-052422	5/24/2022	1515	NA	NA	1	AA	×				1				521		
ISE01-052522	5/25/2022	1515	NA	NA	1	AA	x								509		
ISE02-052522	5/25/2022	1511	NA	NA	1	AA	х		_						517		
			TF	5	126	/22	2										
											_						
						<u> </u>						_					
	1	l	1	0		15	-						Coursion/Airth	II No : FedFer/	7769 5675 253	4	-
Sampled By			-	Sample	- 4. S. J.					Tool State					1709 3073 233		1
Signature:			F	Relinqui	shed B	y/Affilia	ation:			Date		Time:	Received By	/ Affiliation:		Date:	Time:
pecial Instructions:							10	Gilba	ne	5/26	/22	1600	Fede	ĸ		5/26/22	
			T		t	EDE	and the second									05/27/2	21510
Send Results to:																	
Turnaround Time: Standa	rd																





Page 5 of 5

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N N 0 N 5 Ife: Date: 4

Laboratory Analysis Report

Job ID: 22060368



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: Attn: Client Address: City, State, Zip:	GES - ASRC Industrial	Total Number of Pages: P.O.#. : Date Received : Sample Collected By :	5 J310000400-0015 06/02/2022 16:09

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-052622	5/26/2022 13:18	Cassette	22060368.01
MSE02-052622	5/26/2022 13:09	Cassette	22060368.02

Released By:	

Vice President Operations

Title:

Analyst:



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ab-q210-0321

6/8/2022



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 6/8/2022

Job ID : 22060368 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPI	NS Parcel E I	Phase II .	131000040	00					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
22060368.01	MSE01-052622	05/26/2022	Area	2			402	804	100	0	0.000	< 0.003		06/06/22	
22060368.02	MSE02-052622	05/26/2022	Area	2			403	806	100	3.5	4.459	< 0.003		06/06/22	

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 : 22060368	Date Received : 06/02/2022 Time Received : 4:	09PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 18.1°C	Sample pH : NA			
The	ermometer ID : IR3	pH Paper ID : NA			
Pe	rservative :				
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		Х		
2.	Sample(s) in a cooler.			х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-cust	ody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	e custody seal.		х	
7.	Sample containers arrived intact. (If N		Х		
8.	Water Soil Liquid Sl Matrix:	udge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate	container(s)	Х		
10.	Sample(s) were received with Proper	preservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analyse	es requested.	Х		
15.	Samples were received with in the hol	d time.	Х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			х

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Received samples in black cassettes. ~EV 6/3/2022

Received by :

Check in by/date : 06/03/2022

www.ablabs.com

	Gilbane											Chain-Of	f-Cust	ody	/
	Project Name and Number:	HPNS Parcel	E Phase II J3	3100004	00	- 1	Labora	atory I	Name: A&B L	abs			5/3	1/2022	
	Project Manager:					_ /	Addres		10100 East Fwy		Contact	Name:	Page: 1	of 1	
	Site Location: <u>Hunters Poir</u>	t, San Francis	co, CA 941	24]	Houston TX 770	029					
				(tom)			\$	Analysis:						
	Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	No	ervative: ne ainer Type: I t e r				Flow Rate Special Instru Total Time	ictions/Cor	
	MSE01-052622	5/26/2022	1318	NA	NA	1	AA	х					402		
OLA	MSE02-052622	5/26/2022	1309	NA	NA	1	AA	х					403		
	Job ID:2 UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	206036	8 Асн		Sample	er:	y/Affilia	tion:	ilbanc.	Date: 5/3//22	16:09	Courier/Airbill No.: FedEx/ 77 Received By/ Affiliation: Fedex	769 9983 5467	Date: 5/31/22	Time: 1600 16:09
	Send Results to: Turnaround Time: <u>Standard</u>									6/2/22				6/1/12	

18.100 T.R3 M



Page 5 of 5

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Laboratory Analysis Report

Job ID: 22060448



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:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	06/03/2022 15:37
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-053122	Sample Collection Date & Time 5/31/2022 15:14	Matrix Cassette	A&B Job Sample ID 22060448.01
MSE02-053122	5/31/2022 15:07	Cassette	22060448.02
MSE01-060122	6/1/2022 15:41	Cassette	22060448.03
MSE02-060122	6/1/2022 15:37	Cassette	22060448.04

Delenged Du	
Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

6/10/2022

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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 6/10/2022

Job ID : 22060448 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPN	Project: HPNS Parcel E Phase II J310000400											
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
22060448.01	MSE01-053122	05/31/2022	Area	2			493	986	100	4.5	5.732	< 0.003		06/06/22	
22060448.02	MSE02-053122	05/31/2022	Area	2			516	1032	100	2.0	2.548	< 0.003		06/06/22	
22060448.03	MSE01-060122	06/01/2022	Area	2			535	1070	100	4.5	5.732	< 0.003		06/06/22	
22060448.04	MSE02-060122	06/01/2022	Area	2			540	1080	100	6.5	8.280	0.003		06/06/22	

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 : 22060448	Date Received : 06/03/2022 Time Received : 3:	ed : 3:37PM					
Clie	ent Name : GES - ASRC Industrial							
Ter	nperature : 19.8°C	Sample pH : NA						
The	ermometer ID : IR3	pH Paper ID : NA						
Pe	rservative :		1	1	1			
		Check Points	Yes	No	N/A			
1.	Cooler Seal present and signed.		х					
2.	2. Sample(s) in a cooler.							
3.	3. If yes, ice in cooler.							
4.	4. Sample(s) received with chain-of-custody.							
5.	5. C-O-C signed and dated.							
6.	6. Sample(s) received with signed sample custody seal.							
7.	7. Sample containers arrived intact. (If No comment)							
8.	Water Soil Liquid Sli Matrix:	udge Solid Cassette Tube Bulk Badge Food Other Image: I						
9.	Samples were received in appropriate	container(s)	х					
10.	0. Sample(s) were received with Proper preservative							
11.	1. All samples were tagged or labeled.							
12.	12. Sample ID labels match C-O-C ID's.							
13.	13. Bottle count on C-O-C matches bottles found.							
14.	14. Sample volume is sufficient for analyses requested.							
15.	15. Samples were received with in the hold time.							
16.	VOA vials completely filled.				Х			
17.	Sample accepted.		Х					
18.	18. Has client been contacted about sub-out							

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 06/03/22

Received by :

Phone :

Check in by/date / 06/03/2022

Event ID: Air Monitoring June 2022

СОС# КТ060222АSB

Gilbane											Chain-0	Of-Cust	tody	/
Project Name and Number:	HPNS Parcel H	E Phase II]	3100004	00	- 1	abora	atory I	Name: A&B La	ibs			6/	02/2022	
Project Manage						Addres		0100 East Fwy	Ste. 100	Contact	Name:	Page: 1	of 1	
Site Location: Hunters Point	nt, San Francisc	co, CA 941	24		_		I	Iouston TX 7702	29					
	1		1	1		1		Analysis:						
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Not	ainer Type:				Flow Rate		
	_			-				lter	_			Total Time	(min)	
MSE01-053122	5/31/2022	1514	NA	NA	1	AA	X			-		493		OLA
MSE02-053122	5/31/2022	1507	NA	NA	1	AA	X					516		12A
MSE01-060122	6/01/2022	1541	NA	NA	1	AA	X					535		03A
MSE02-060122	6/01/2022	1537	NA	NA	1	AA	X			_		540		04A
Job ID:2	206044	8 ACH			TP	61	/2/	22						D
Sampled By			·	Sample	er:						Courier/Airbill No.: FedE	x/ 7770 1157 0291		
Signature:			F	Relinqui	shed B	y/Affilia	ation:		Date:	Time:	Received By/ Affiliation:		Date:	Time:
Special Instructions:	_						,	Gilban	6/2/22	1600	Fedex		6/2/22	1600
Send Results to:					1000	21		•						2 153
Turnaround Time: Standard			_											

17.800



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🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-87454-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn:

Authorized for release by: 5/11/2022 5:10:07 PM

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: 320-87454-1

3
5
8
9

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Job ID: 320-87454-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-87454-1

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.

GILBANEPM031522-1884 (320-87454-1) and GILBANEPM031522-1885 (320-87454-3)

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.

GILBANETSP031522-1884 (320-87454-2) and GILBANETSP031522-1885 (320-87454-4)

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

Analyte

Total Suspended Particulates

Client Sample ID: GILBANEPM031522-1884

Job ID: 320-87454-1

Prep Type

5
8
9
13

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0027	0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.040	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0060	0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	32	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP031522-1884

 _au	Sample	שו.	520-07	434-2

Lab Sample ID: 320-87454-3

40CFR50 App B Total/NA

Dil Fac D Method

1

Lab Sample ID: 320-87454-1

Client Sample I	D. GII BANEP	M031522-1885

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0050	0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.014	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.013	0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	37	0.29	0.29	ug/m3	1	PM10	Total/NA

RL

0.2997

RL Unit

0.2997 ug/m3 (Air)

Client Sample ID: GILBANETSP031522-1885 Lab Sample ID: 320-87454-4

Result Qualifier

42.8503

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	77.5502	0.2885	0.2885 ug/m3 (Air)	1 40CFR50 App B	Total/NA

Client Sample ID: GILBANEF Date Collected: 05/03/22 06:58 Date Received: 05/04/22 09:45	PM0315	22-1884				L	ab Sample.	e ID: 320-87 Mat	7 454-1 trix: Air
Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00070	0.00010	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:23	1
Copper	0.040		0.0014	0.00010	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:23	
Manganese	0.0060		0.00070	0.000098	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:23	
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	32		0.29	0.29	ug/m3			05/05/22 08:00	1
Client Sample ID: GILBANET Date Collected: 05/03/22 06:58 Date Received: 05/04/22 09:45 Sample Container: Folder/Filter	ГSP031	522-1884				L	ab Sample.	e ID: 320-87 Mat	7454-2 trix: Ai
_ General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Particulates	42.8503		0.2997	0.2997	ug/m3 (Air)			05/11/22 14:00	1
Client Sample ID: GILBANEF Date Collected: 05/03/22 06:48 Date Received: 05/04/22 09:45 Sample Container: Folder/Filter	PM0315	22-1885				L	ab Sample.	e ID: 320-87 Mat	7 454- 3 :rix: Aiı
 Method: 6020 - Metals (ICP/MS)									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Lead	0.0050		0.00069		ug/m3 (Air)		05/09/22 12:00	05/09/22 15:27	
Copper	0.014		0.0014		ug/m3 (Air)			05/09/22 15:27	
Manganese	0.013		0.00069	0.000097	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:27	
General Chemistry									
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	37		0.29	0.29	ug/m3			05/05/22 08:00	1
Client Sample ID: GILBANET Date Collected: 05/03/22 06:48	FSP0 31	522-1885				L	ab Sample.	D: 320-87	7 454 -4 trix: Ai
Date Received: 05/04/22 09:45 Sample Container: Folder/Filter General Chemistry									
	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: GES-AIS, LLC

Job ID: 320-87454-1

Eurofins Sacramento

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-586384 Matrix: Air Analysis Batch: 586555	¥/1-В МВ	МВ						Clie		le ID: Methoc Prep Type: To Prep Batch:	otal/NA
Analyte		Qualifier	RL	. 1	MDL U	Unit	D	Р	repared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00	0018 i	ug/m3 (/	Air) —	05/0	9/22 12:00	05/09/22 14:41	1
Copper	ND		0.0024	0.00) 018 ι	ug/m3 (/	Air)	05/0	9/22 12:00	05/09/22 14:41	1
Manganese	ND		0.0012	0.00	DO17 ι	ug/m3 (/	Air)	05/0	9/22 12:00	05/09/22 14:41	1
Lab Sample ID: LCS 320-58638 Matrix: Air Analysis Batch: 586555	94/2-B						Client	: Sai		Lab Control S Prep Type: To Prep Batch:	otal/NA
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Quali	fier U	Init	D	%Rec	Limits	
Lead			0.240	0.239		u	g/m3 (Air)		99	86 - 111	
Copper			0.240	0.232		u	g/m3 (Air)		97	85 - 110	
Manganese			0.240	0.238		u	g/m3 (Air)		99	88 - 110	

Lab Sample ID: LCSD 320-586384/3-B Matrix: Air Analysis Batch: 586555

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

Job ID: 320-87454-1

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

Prep Batch: 586403

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Air

Air

Air

Air

Air

Matrix

Air

Air

Air

Air

Air

Matrix

Air

Air

Air

Air

Air

Air

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

Client Sample ID

Lab Control Sample

Client Sample ID

Method Blank

Lab Control Sample

Client Sample ID

Lab Control Sample

Lab Control Sample Dup

GILBANETSP031522-1885

Method Blank

Lab Control Sample Dup

GILBANEPM031522-1884

GILBANEPM031522-1885

Method Blank

GILBANEPM031522-1884

GILBANEPM031522-1885

Lab Control Sample Dup

GILBANEPM031522-1884

GILBANEPM031522-1885

Metals

Lab Sample ID

MB 320-586384/1-B

LCS 320-586384/2-B

LCSD 320-586384/3-B

Prep Batch: 586403

MB 320-586384/1-B

LCS 320-586384/2-B

LCSD 320-586384/3-B

Analysis Batch: 586555

Lab Sample ID

Lab Sample ID

MB 320-586384/1-B

LCS 320-586384/2-B

LCSD 320-586384/3-B

320-87454-1

320-87454-3

320-87454-4

320-87454-1

320-87454-3

320-87454-1

320-87454-3

Pre Prep Batch: 586384

Prep Batch

Prep Batch

586384

586384

586384

586384

586384

Prep Batch

586403

586403

586403

586403

586403

586983

Method

Filter to Air

Method

3050B

3050B

3050B

3050B

3050B

Method

6020

6020

6020

6020

6020

40CFR50 App B

General Chemistry

Pre Prep Batch: 586983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-2	GILBANETSP031522-1884	Total/NA	Air	Filter to Air	
320-87454-4	GILBANETSP031522-1885	Total/NA	Air	Filter to Air	
Analysis Batch: 58	36989				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-1	GILBANEPM031522-1884	Total/NA	Air	PM10	
320-87454-3	GILBANEPM031522-1885	Total/NA	Air	PM10	
Analysis Batch: 58	36991				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-2	GILBANETSP031522-1884	Total/NA	Air	40CFR50 App B	586983

Total/NA

Job ID: 320-87454-1

Matrix: Air

Client Sample ID: GILBANEPM031522-1884 Date Collected: 05/03/22 06:58 Date Received: 05/04/22 09:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 15:23	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0545 g	586989	05/05/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1884 Date Collected: 05/03/22 06:58 Date Received: 05/04/22 09:45

Ргер Туре	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: GILBANEPM031522-1885 Date Collected: 05/03/22 06:48 Date Received: 05/04/22 09:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 15:27	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0643 g	586989	05/05/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1885 Date Collected: 05/03/22 06:48 Date Received: 05/04/22 09:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 320-87454-2 Matrix: Air

Lab Sample ID: 320-87454-1

Lab Sample ID: 320-87454-3

Lab Sample ID: 320-87454-4

Matrix: Air

Matrix: Air

9

Accreditation/Certification Summary

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

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

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

Eurofins Sacramento

Method Summary

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

5
8
9
11
13

Method	Method Description	Protocol	Laborator
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

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

Eurofins Sacramento

Sample Summary

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

Job	١D·	320-87454-1
000	ю.	520-07-54-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87454-1	GILBANEPM031522-1884	Air	05/03/22 06:58	05/04/22 09:45
320-87454-2	GILBANETSP031522-1884	Air	05/03/22 06:58	05/04/22 09:45
320-87454-3	GILBANEPM031522-1885	Air	05/03/22 06:48	05/04/22 09:45
320-87454-4	GILBANETSP031522-1885	Air	05/03/22 06:48	05/04/22 09:45

	bwomac	bwomack@ges-ais.com	com	20, 50110	2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com	20								
Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Project Number 13100000	rcel E RA Phase	82	La	boratory	EUROFIN	S ENVIRO	aboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	ORTHERN CA	LIFORNI	A, LLC (F		ent: Parcel E	Event: Parcel E Phase 2 Air	
VBS Code: J310000400-016			2 2	PUC Ship to:									7707	
Comments: Equipment:			bottset Tesityler 01M9 - AlA2	0500 - Air TSP 16020 - Air Pb Mn Cu			Code Ma Air 1 1x 250 1 1x Env	Air Air Container/Preservative 1x Envelope, None 1x Envelope, None	320-8	7454 Ch	c c 320-87454 Chain of Custody	, Apo		
Event: Parcel E Phase 2 Air Monitoring May 2022	May 2022			N -							-			
Sample ID Matrix	Date	Time	Samp Init.				Loca	Location ID	Sample Tvpe	Depth (ft bgs) Top - Bottom		Cooler	Comments	
GILBANEPM031522-1884 A 0	05/03/2022	0658	KT X	×			AM	AMSE1	N1	0.00	-		VOLUME: 1721 40 (M3)	
A	05/03/2022	0658	КT	×			AM	AMSE1	ž	0.00	0.00	1 VOL	VOLUME: 1668.60 (M3)	
A	_	0648	KT X	×	_		AM	AMSE2	11	0.00	0.00	1 VOL	VOLUME: 1726.95 (M3)	
GILBANETSP031522-1885 A 0	05/03/2022	0648	¥	×			AM	AMSE2	N1	0.00	0.00	1 VOL	VOLUME: 1733.07 (M3)	
	15 AL	13/22	+	-							-			
			+	╢										
											+	_		
										1				
10 Turnaround Time: 5 days			-											
Relinquished bv: (Signature)	Date	Time	Raraivad h	hu. (Signatura)	tional		Date							
2	2	-	Fed	X a	(alm		5/3/27	1600 Shi	pping Da	ate / Car te: 5/3/2	122 / FedE	Shipping Date / Carrier / Airbill Number Shipping Date: 5/3/2022 / FedEx 7767 4711 7650	7650	
	5		5	5			441010							
		Ī					76.4.5	044) Re	ceived b	/ Labora	tory: (Sig	nature, Date,	Received by Laboratory: (Signature, Date, Time) & condition	
Gilbane.Navy_COC_Freid May 03, 2022								1.91	-				Page 1 of 1	
							12 13 14		9	8		5	2 3 4	

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 87454 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	SEAL
Sample custody seals, if present, are intact.	True	
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	

Job Number: 320-87454-1

List Source: Eurofins Sacramento

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-87609-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn:

..... Links

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Authorized for release by: 5/13/2022 6:23:18 PM

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

Glossary

Job ID: 320-87609-1

	3
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Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Job ID: 320-87609-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-87609-1

Comments

No additional comments.

Receipt

The samples were received on 5/6/2022 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.1° 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. GILBANEPM031522-1886 (320-87609-1), GILBANEPM031522-1887 (320-87609-3), GILBANEPM031522-1888 (320-87609-5) and GILBANEPM031522-1889 (320-87609-7)

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. GILBANETSP031522-1886 (320-87609-2), GILBANETSP031522-1887 (320-87609-4), GILBANETSP031522-1888 (320-87609-6) and GILBANETSP031522-1889 (320-87609-8)

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

Client: Project

Total Suspended Particulates

Clien

		Delec	tion Su	IIIIIai y	/		Job ID:	000 07600 4
lient: GES-AIS, LLC roject/Site: Hunters Point, Parce	el E, Phase :	2					JOD ID.	320-87609-1
Client Sample ID: GILBAN						Lab S	ample ID: 32	20-87609-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0027		0.00070		ug/m3 (Air)	1	<u>6020</u>	Total/NA
Copper	0.048		0.0014		ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0079		0.00070		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	32		0.29		ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAN	VETSP031	522-1886				Lab S	ample ID: 32	0-87609-2
_ Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Total Suspended Particulates	44.8566		0.3015		ug/m3 (Air)	1	40CFR50 App B	
- ·		00 4007			, ,,			
Client Sample ID: GILBAN	IEPINUS 15	22-1001				Lan S	ample ID: 32	.ິປ-ຽ/ ໂດດລາວ
Analyte	Result	Qualifier	RL		Unit		D Method	Prep Type
Lead	0.0030		0.00070		ug/m3 (Air)	1	6020	Total/NA
Copper	0.0087		0.0014		ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0077		0.00070		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	30		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAN	IETSP031	522-1887				Lab S	ample ID: 32	2 0-87609-4
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Ргер Туре
Total Suspended Particulates	53.1071		0.2928	0.2928	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GILBAN	JEPM0315	22-1888				Lab S	ample ID: 32	0-87609-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0051		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	0.011		0.00069	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	33		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAN	IETSP031	522-1888				Lab S	ample ID: 32	2 0-87609-6
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Total Suspended Particulates	49.8617		0.2993	0.2993	ug/m3 (Air)	1	- 40CFR50 App B	
Client Sample ID: GILBAN	VEPM0315	22-1889				Lab S	ample ID: 32	0-87609-7
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0067		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.023		0.0014		ug/m3 (Air)	1	6020	Total/NA
Manganese	0.010		0.00069		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	29		0.29		ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAN	VETSP031	522-1889				Lab S	ample ID: 32	0-87609-8
						-		
Analyte		Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type

This Detection Summary does not include radiochemical test results.

62.6382

40CFR50 App B Total/NA

1

0.2871

0.2871 ug/m3 (Air)

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel									
	E, Phase 2	2	-					Job ID: 320-8	87609-1
Client Sample ID: GILBANE Date Collected: 05/04/22 06:31 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter	PM0315	22-1886				L	ab Sample.	e ID: 320-8 Ma	7609-1 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00070	0.00011	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:28	1
Copper	0.048		0.0014	0.00011	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:28	1
Manganese	0.0079		0.00070	0.000098	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:28	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	32		0.29	0.29	ug/m3			05/09/22 09:30	1
Client Sample ID: GILBANE	TSP031	522-1886				1	ab Sample	e ID: 320-87	7609-2
Date Collected: 05/04/22 06:31									trix: Air
Date Received: 05/06/22 10:05									
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.8566		0.3015	0.3015	ug/m3 (Air)			05/09/22 09:30	1
Client Sample ID: GILBANE	DM0045	00 4007				-	ah Camala	D: 320-87	7000.0
Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter								Ma	trix: Air
Sample Container: Folder/Filter									
Method: 6020 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 6020 - Metals (ICP/MS)	Result 0.0030	Qualifier	RL 0.00070		Unit ug/m3 (Air)	D	Prepared 05/11/22 06:30	Analyzed	Dil Fac
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper		Qualifier	0.00070 0.0014	0.00011 0.00011	ug/m3 (Air) ug/m3 (Air)	D	05/11/22 06:30 05/11/22 06:30	05/12/22 14:37 05/12/22 14:37	1 1
Method: 6020 - Metals (ICP/MS) Analyte Lead	0.0030	Qualifier	0.00070	0.00011 0.00011	ug/m3 (Air)	<u>D</u>	05/11/22 06:30 05/11/22 06:30	05/12/22 14:37	1
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese	0.0030 0.0087	Qualifier	0.00070 0.0014	0.00011 0.00011	ug/m3 (Air) ug/m3 (Air)	D	05/11/22 06:30 05/11/22 06:30	05/12/22 14:37 05/12/22 14:37	1 1
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper	0.0030 0.0087 0.0077	Qualifier	0.00070 0.0014	0.00011 0.00011 0.000099	ug/m3 (Air) ug/m3 (Air)	D	05/11/22 06:30 05/11/22 06:30	05/12/22 14:37 05/12/22 14:37	1 1
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry	0.0030 0.0087 0.0077		0.00070 0.0014 0.00070	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	<u>D</u>	05/11/22 06:30 05/11/22 06:30 05/11/22 06:30	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37	1 1 1
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10	0.0030 0.0087 0.0077 Result 30	Qualifier	0.00070 0.0014 0.00070 RL	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30	1 1 1 Dil Fac 1
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE	0.0030 0.0087 0.0077 Result 30	Qualifier	0.00070 0.0014 0.00070 RL	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 Analyzed 05/09/22 09:30	1 1 1 Dil Fac 1 7 609-4
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10	0.0030 0.0087 0.0077 Result 30	Qualifier	0.00070 0.0014 0.00070 RL	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 Analyzed 05/09/22 09:30	1 1 1 Dil Fac 1
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22	0.0030 0.0087 0.0077 Result 30	Qualifier	0.00070 0.0014 0.00070 RL	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 Analyzed 05/09/22 09:30	1 1 1 Dil Fac 1 7 609-4
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter	0.0030 0.0087 0.0077 Result 30	Qualifier	0.00070 0.0014 0.00070 RL	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 Analyzed 05/09/22 09:30	1 1 1 Dil Fac 1 7 609-4
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry	0.0030 0.0087 0.0077 Result 30	Qualifier 522-1887	0.00070 0.0014 0.00070 RL 0.29	0.00011 0.000099 RL 0.29	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ D_	05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 DI: 320-87 Mar	1 1 1 7609-4 trix: Air
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter	0.0030 0.0087 0.0077 Result 30	Qualifier	0.00070 0.0014 0.00070 RL	0.00011 0.000099 RL 0.29	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 Analyzed 05/09/22 09:30	1 1 1 Dil Fac 1 7 609-4
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates	0.0030 0.0087 0.0077 Result 30 TSP031 Result 53.1071	Qualifier 522-1887 Qualifier	0.00070 0.0014 0.00070 RL 0.29	0.00011 0.000099 RL 0.29	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ <u>D</u> 	05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared .ab Sample	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 Analyzed 05/09/22 09:30	1 1 1 7609-4 trix: Air
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry Analyte	0.0030 0.0087 0.0077 Result 30 TSP031 Result 53.1071	Qualifier 522-1887 Qualifier	0.00070 0.0014 0.00070 RL 0.29	0.00011 0.000099 RL 0.29	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ <u>D</u> 	05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared .ab Sample	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 iD: 320-8 Mat Analyzed 05/09/22 09:30 a ID: 320-8	1 1 1 7609-4 trix: Air
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/05/22 06:38 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter	0.0030 0.0087 0.0077 Result 30 TSP031 Result 53.1071	Qualifier 522-1887 Qualifier	0.00070 0.0014 0.00070 RL 0.29	0.00011 0.000099 RL 0.29	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ <u>D</u> 	05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared .ab Sample	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 iD: 320-8 Mat Analyzed 05/09/22 09:30 a ID: 320-8	1 1 1 7609-4 trix: Air <u>Dil Fac</u> 1 7609-5
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/05/22 06:38 Date Collected: 05/06/22 10:05 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	0.0030 0.0087 0.0077 Result 30 TSP031 TSP031 53.1071 PM0315	Qualifier 522-1887 Qualifier 22-1888	0.00070 0.0014 0.00070 RL 0.29	0.00011 0.000099 RL 0.29 RL 0.2928	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) <u>Unit</u> ug/m3 <u>Unit</u> ug/m3 (Air)		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared .ab Sample .ab Sample	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 iD: 320-87 Mat Analyzed 05/09/22 09:30 iD: 320-87 Mat	1 1 7 1 7 609-4 trix: Air <u>1</u> 7 609-5 trix: Air
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/05/22 06:38 Date Collected: 05/06/22 10:05 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.0030 0.0087 0.0077 Result 30 TSP031 TSP031 53.1071 PM0315 Result	Qualifier 522-1887 Qualifier	0.00070 0.0014 0.00070 RL 0.29 RL 0.2928	0.00011 0.000099 RL 0.29 RL 0.2928	Unit Unit Unit Unit Unit Unit Unit	_ <u>D</u> 	05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared .ab Sample .ab Sample .ab Sample	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 iD: 320-87 Mat Analyzed 05/09/22 09:30 iD: 320-87 Mat	1 1 1 7609-4 trix: Air <u>Dil Fac</u> 1 7609-5
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/05/22 06:38 Date Collected: 05/06/22 10:05 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	0.0030 0.0087 0.0077 Result 30 TSP031 TSP031 53.1071 PM0315 PM0315 Result 0.0051	Qualifier 522-1887 Qualifier 22-1888	0.00070 0.0014 0.00070 RL 0.29	0.00011 0.000099 RL 0.29 0.29 8 0.2928 0.2928 0.2928	Unit ug/m3 (Air) ug/m3 (Air) Unit ug/m3 Unit ug/m3 (Air)		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared .ab Sample .ab Sample	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 iD: 320-87 Mat Analyzed 05/09/22 09:30 iD: 320-87 Mat	1 1 1 7609-4 trix: Air <u>Dil Fac</u> 1 7609-5 trix: Air
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/05/22 06:38 Date Collected: 05/06/22 10:05 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.0030 0.0087 0.0077 Result 30 TSP031 TSP031 53.1071 PM0315 Result	Qualifier 522-1887 Qualifier 22-1888	0.00070 0.0014 0.00070 RL 0.29 0.29 0.29 8 0.2928	0.00011 0.000099 RL 0.29 0.2928 0.2928 0.2928 0.2928	Unit Unit Unit Unit Unit Unit Unit		05/11/22 06:30 05/11/22 06:30 05/11/22 06:30 Prepared .ab Sample .ab Sample .ab Sample .ab Sample	05/12/22 14:37 05/12/22 14:37 05/12/22 14:37 Analyzed 05/09/22 09:30 ID: 320-87 Mathematical Mat	1 1 1 7609-4 trix: Air <u>Dil Fac</u> 1 7609-5 trix: Air

Client Sample Results

5/13/2022

		Client S	Sample	Resul	ts				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel	E, Phase 2	2	-					Job ID: 320-8	7609-1
Client Sample ID: GILBANE Date Collected: 05/05/22 06:38 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter	EPM0315	22-1888				L	ab Sample.	e ID: 320-87 Mat	7 609-5 rix: Air
General Chemistry Analyte	Booult	Qualifier	RL	ы	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.29		ug/m3		Prepareu	05/09/22 09:30	<u>1</u>
Client Sample ID: GILBANE Date Collected: 05/05/22 06:38 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter	ETSP031	522-1888				L	ab Sample.	e ID: 320-87 Mat	7 609-6 rix: Air
General Chemistry									
Analyte Total Suspended Particulates	Result 49.8617	Qualifier	RL 0.2993		Unit ug/m3 (Air)	<u>D</u>	Prepared	Analyzed 05/09/22 09:30	Dil Fac
			0.2000	0.2000	ug/mo (/ m)				
Client Sample ID: GILBANE Date Collected: 05/05/22 06:29 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter	2PMU315	22-1889				L	ab Sample	e ID: 320-87 Mat	7609-7 rix: Air
Method: 6020 - Metals (ICP/MS))								
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0067		0.00069		ug/m3 (Air)		05/11/22 06:30	05/12/22 14:44	1
Copper	0.023		0.0014		ug/m3 (Air)		05/11/22 06:30	05/12/22 14:44	1
Manganese	0.010		0.00069	0.000097	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:44	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.29	0.29	ug/m3			05/09/22 09:30	1
Client Sample ID: GILBANE	TSP031	522-1889				L	ab Sample	D: 320-87	'609-8
Date Collected: 05/05/22 06:29 Date Received: 05/06/22 10:05 Sample Container: Folder/Filter									rix: Air
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.6382		0.2871		ug/m3 (Air)			05/09/22 09:30	1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-586802/1-B Matrix: Air Analysis Batch: 587455 ME	6 MB				Clie		ole ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte Resul	t Qualifier	RL	MDL Un	nit D	Р	repared	Analyzed	Dil Fac
Lead NE	,	0.0012 0.0	0018 ug	g/m3 (Air)	05/1	1/22 06:30	05/12/22 14:19	1
Copper NE)	0.0024 0.0	0018 ug	/m3 (Air)	05/1	1/22 06:30	05/12/22 14:19	1
Manganese NE)	0.0012 0.0	0017 ug	/m3 (Air)	05/1	1/22 06:30	05/12/22 14:19	1
Lab Sample ID: LCS 320-586802/2-B Matrix: Air Analysis Batch: 587455				Clien	t Sai		Lab Control S Prep Type: To Prep Batch: 5	otal/NA
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifie	er Unit	D	%Rec	Limits	
Lead	0.240	0.237		ug/m3 (Air) _	99	86 - 111	
Copper	0.240	0.242		ug/m3 (Air)	101	85 - 110	
Manganese	0.240	0.238		ug/m3 (Air)	99	88 - 110	

Lab Sample ID: LCSD 320-586802/3-B Matrix: Air Analysis Batch: 587455

Analysis Batch: 587455							Prep Ba	atch: 58	36805
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.244		ug/m3 (Air)	_	102	86 - 111	3	15
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110	6	15

Job ID: 320-87609-1

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

QC Association Summary

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-87609-1

8 9 10 11 12 13

Metals Pre Prep Batch: 586802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	Filter to Air	
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	Filter to Air	
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	Filter to Air	
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	Filter to Air	
MB 320-586802/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-586802/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-586802/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	
Prep Batch: 586805					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	3050B	586802
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	3050B	586802
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	3050B	586802

320-87609-5	GILBANEPM031522-1888	Total/NA	Air	3050B	586802
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	3050B	586802
MB 320-586802/1-B	Method Blank	Total/NA	Air	3050B	586802
LCS 320-586802/2-B	Lab Control Sample	Total/NA	Air	3050B	586802
LCSD 320-586802/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	586802

Analysis Batch: 587455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	6020	586805
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	6020	586805
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	6020	586805
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	6020	586805
MB 320-586802/1-B	Method Blank	Total/NA	Air	6020	586805
LCS 320-586802/2-B	Lab Control Sample	Total/NA	Air	6020	586805
LCSD 320-586802/3-B	Lab Control Sample Dup	Total/NA	Air	6020	586805

General Chemistry

Pre Prep Batch: 586983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-2	GILBANETSP031522-1886	Total/NA	Air	Filter to Air	
320-87609-4	GILBANETSP031522-1887	Total/NA	Air	Filter to Air	
320-87609-6	GILBANETSP031522-1888	Total/NA	Air	Filter to Air	
320-87609-8	GILBANETSP031522-1889	Total/NA	Air	Filter to Air	

Analysis Batch: 587590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	PM10	
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	PM10	
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	PM10	
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	PM10	

Analysis Batch: 587592

Lab Sample ID 320-87609-2	Client Sample ID GILBANETSP031522-1886	Prep Type Total/NA	Matrix	40CFR50 App B	Prep Batch 586983
320-87609-4	GILBANETSP031522-1887	Total/NA	Air	40CFR50 App B	586983
320-87609-6	GILBANETSP031522-1888	Total/NA	Air	40CFR50 App B	586983
320-87609-8	GILBANETSP031522-1889	Total/NA	Air	40CFR50 App B	586983

Job ID: 320-87609-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-87609-1

Client Sample ID: GILBANEPM031522-1886 Date Collected: 05/04/22 06:31 Date Received: 05/06/22 10:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:28	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0553 g	587590	05/09/22 09:30	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1886 Date Collected: 05/04/22 06:31 Date Received: 05/06/22 10:05

Prep Type Total/NA Total/NA	Batch Type Analysis Pre Prep	Batch Method 40CFR50 App B Filter to Air	Run	Dil Factor 1	Initial Amount	Final Amount	Batch Number 587592 586983	Prepared or Analyzed 05/09/22 09:30 05/11/22 14:00		Lab TAL SAC TAL SAC	_
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Client Sample ID: GILBANEPM031522-1887 Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:37	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0517 g	587590	05/09/22 09:30	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1887 Date Collected: 05/04/22 06:22 Date Received: 05/06/22 10:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			587592	05/09/22 09:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC

Client Sample ID: GILBANEPM031522-1888 Date Collected: 05/05/22 06:38 Date Received: 05/06/22 10:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:40	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0573 g	587590	05/09/22 09:30	JMD	TAL SAC

Eurofins Sacramento

Matrix: Air

Lab Sample ID: 320-87609-4

Lab Sample ID: 320-87609-5

Lab Sample ID: 320-87609-3

Eurofine	Sacramont

Client Sample ID: GILBANETSP031522-1888 Date Collected: 05/05/22 06:38 Date Received: 05/06/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			587592	05/09/22 09:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC

Client Sample ID: GILBANEPM031522-1889 Date Collected: 05/05/22 06:29 Date Received: 05/06/22 10:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:44	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0508 g	587590	05/09/22 09:30	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1889 Date Collected: 05/05/22 06:29 Date Received: 05/06/22 10:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			587592	05/09/22 09:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					586983	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

Job ID: 320-87609-1

Matrix: Air

Matrix: Air

Lab Sample ID: 320-87609-6 Matrix: Air

Lab Sample ID: 320-87609-7

Lab Sample ID: 320-87609-8

Accreditation/Certification Summary

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

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

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

ethod	Method Description	Protocol	Laboratory
)20	Metals (ICP/MS)	SW846	TAL SAC
CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
M10	Particulate Matter	40CFR50J	TAL SAC
)50B	Preparation, Metals	SW846	TAL SAC
Iter to Air	Filter to Air volume ratio	None	TAL SAC

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

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	•	Matrix	Collected	Received
320-87609-1	GILBANEPM031522-1886	Air	05/04/22 06:31	05/06/22 10:05
320-87609-2	GILBANETSP031522-1886	Air	05/04/22 06:31	05/06/22 10:05
320-87609-3	GILBANEPM031522-1887	Air	05/04/22 06:22	05/06/22 10:05
320-87609-4	GILBANETSP031522-1887	Air	05/04/22 06:22	05/06/22 10:05
320-87609-5	GILBANEPM031522-1888	Air	05/05/22 06:38	05/06/22 10:05
320-87609-6	GILBANETSP031522-1888	Air	05/05/22 06:38	05/06/22 10:05
320-87609-7	GILBANEPM031522-1889	Air	05/05/22 06:29	05/06/22 10:05
320-87609-8	GILBANETSP031522-1889	Air	05/05/22 06:29	05/06/22 10:05

Eurofins Sagangento2

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Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 87609 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 320-87609-1

List Source: Eurofins Sacramento

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-87735-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn

..... Links

Review your project results through

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The

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Authorized for release by:



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

3

Qualifiers

Metals

J

¤

Qualifier **Qualifier Description** 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. 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)

Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Job ID: 320-87735-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-87735-1

Comments

No additional comments.

Receipt

The samples were received on 5/11/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.4° 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. GILBANEPM031522-1890 (320-87735-1) and GILBANEPM031522-1891 (320-87735-3)

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. GILBANETSP031522-1890 (320-87735-2) and GILBANETSP031522-1891 (320-87735-4)

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

Clie

Client Sample ID: GILBA	NEPM0315	22-1890				Lab S	Sai	mple ID:	320-87735-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0020	J	0.0023	0.00034	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.037		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0079		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.94	0.94	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1890

Lab Sample	ID:	320	-877	35-2
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Lab Sample ID: 320-87735-4

Lab Sample ID: 320-87735-5

Lab Sample ID: 320-87735-6

Lab Sample ID: 320-87735-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Total Suspended Particulates	26.9218		0.9684	0.9684	ug/m3 (Air)	1	40CFR50 App E	B Total/NA
Client Sample ID: GILBANE	PM03152	22-1891				Lab S	Sample ID: 32	20-87735-3

Analyte	Result Qualifier	r RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0054	0.0023	0.00034	ug/m3 (Air)	1	6020	Total/NA
Copper	0.37	0.0045	0.00034	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.012	0.0023	0.00032	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	34	1.2	1.2	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP031522-1891

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	38.6610		0.9430	0.9430	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1892

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Metho	d Prep Type
Lead	0.0091	0.00070	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.055	0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0045	0.00070	0.000099	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	13	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP041222-1892

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	18.7822	0.3069	0.3069 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1893

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Туре
Lead	0.0041	0.00071	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.23	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0095	0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23	0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1893 Lab Sample ID: 320-87735-8

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	33.5102	0.2945	0.2945 ug/m3 (Air)	1	40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Job ID: 320-87735-1

			Jailipie	Negui	ເວ				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	, Phase 2	2	-					Job ID: 320-8	37735-1
Client Sample ID: GILBANER Date Collected: 05/05/22 14:03 Date Received: 05/11/22 10:00 Sample Container: Folder/Filter	PM0315	22-1890				L	₋ab Sample	e ID: 320-87 Mat	7735-1 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020	J	0.0023		ug/m3 (Air)		05/17/22 06:00	05/17/22 10:28	1
Copper	0.037		0.0045		ug/m3 (Air)		05/17/22 06:00	05/17/22 10:28	1
Manganese	0.0079		0.0023	0.00032	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:28	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.94	0.94	ug/m3			05/12/22 11:00	1
Client Sample ID: GILBANE Date Collected: 05/05/22 14:03 Date Received: 05/11/22 10:00 Sample Container: Folder/Filter	SP031	522-1890				L	₋ab Sample	e ID: 320-87 Mat	735-2 trix: Air
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.9218		0.9684	0.9684	ug/m3 (Air)			05/12/22 11:00	1
Client Sample ID: GILBANER Date Collected: 05/05/22 13:50 Date Received: 05/11/22 10:00 Sample Container: Folder/Filter								e ID: 320-87 Mat	trix: Air
Method: 6020 - Metals (ICP/MS)	Booult	Qualifiar	RL	MDI	Unit	D	Bronorod	Analyzad	Dil Fac
Analyte Lead	0.0054	Qualifier	0.0023		ug/m3 (Air)		Prepared 05/17/22 06:00	Analyzed 05/17/22 10:37	1
Copper	0.37		0.0045		ug/m3 (Air)		05/17/22 06:00	05/17/22 10:37	1
Manganese	0.012		0.0023	0.00032	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:37	1
General Chemistry Analyte	Result	Qualifier	RL	RI	Unit	р	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		1.2		ug/m3			05/12/22 11:00	1
	00004	F00 4004			-		ah Qamula		7705 4
Client Sample ID: GILBANET Date Collected: 05/05/22 13:50 Date Received: 05/11/22 10:00 Sample Container: Folder/Filter	59031	522-1691						e ID: 320-87 Mat	trix: Air
General Chemistry									
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.6610		0.9430	0.9430	ug/m3 (Air)			05/12/22 11:00	1
Client Sample ID: GILBANER Date Collected: 05/10/22 06:34 Date Received: 05/11/22 10:00 Sample Container: Folder/Filter	PM0412	22-1892				L	₋ab Sample	e ID: 320-87 Mat	7735-5 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Lead	0.0091		0.00070		ug/m3 (Air)		05/17/22 06:00	05/17/22 10:40	1
Copper Manganese	0.055 0.0045		0.0014 0.00070		ug/m3 (Air) ug/m3 (Air)			05/17/22 10:40 05/17/22 10:40	1
	0.0040		0.00010	2.300000			30,, 22 00.00	50,, 22 10.40	
								Eurofins Sacr	amento

Client Sample Results

		Client S	Sample	Resul	ts			=	
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	E, Phase 2	2						Job ID: 320-8	37735-
Client Sample ID: GILBANEI Date Collected: 05/10/22 06:34 Date Received: 05/11/22 10:00 Sample Container: Folder/Filter	PM0412	22-1892				L	ab Sample	e ID: 320-87 Mat	735-{ trix: Ai
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10	13		0.29	0.29	ug/m3			05/12/22 11:00	
Client Sample ID: GILBANE Date Collected: 05/10/22 06:34 Date Received: 05/11/22 10:00 Sample Container: Folder/Filter	FSP041	222-1892				L	ab Sample	e ID: 320-87 Mat	735-(rix: Ai
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Particulates	18.7822		0.3069	0.3069	ug/m3 (Air)			05/12/22 11:00	
Date Received: 05/11/22 10:00 Sample Container: Folder/Filter									
Method: 6020 - Metals (ICP/MS)									
	Result	Qualifier	RI	МОІ	Unit	р	Prepared	Analyzed	Dil Fa
Analyte	Result 0.0041	Qualifier	RL		Unit ug/m3 (Air)	<u>D</u>	Prepared 05/17/22 06:00	Analyzed 05/17/22 10:43	
		Qualifier		0.00011			05/17/22 06:00		
Analyte	0.0041	Qualifier	0.00071	0.00011 0.00011	ug/m3 (Air)		05/17/22 06:00 05/17/22 06:00	05/17/22 10:43	
Analyte	0.0041 0.23	Qualifier _	0.00071	0.00011 0.00011	ug/m3 (Air) ug/m3 (Air)		05/17/22 06:00 05/17/22 06:00	05/17/22 10:43 05/17/22 10:43	
Analyte Lead Copper Manganese	0.0041 0.23 0.0095	Qualifier	0.00071	0.00011 0.00011 0.000099	ug/m3 (Air) ug/m3 (Air)		05/17/22 06:00 05/17/22 06:00	05/17/22 10:43 05/17/22 10:43	Dil Fa
Analyte Lead Copper Manganese General Chemistry	0.0041 0.23 0.0095		0.00071 0.0014 0.00071	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)		05/17/22 06:00 05/17/22 06:00 05/17/22 06:00	05/17/22 10:43 05/17/22 10:43 05/17/22 10:43	
Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/10/22 06:20 Date Received: 05/11/22 10:00	0.0041 0.23 0.0095 Result 23	Qualifier	0.00071 0.0014 0.00071 RL	0.00011 0.00011 0.000099 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	<u> </u>	05/17/22 06:00 05/17/22 06:00 05/17/22 06:00 05/17/22 06:00 Prepared	05/17/22 10:43 05/17/22 10:43 05/17/22 10:43 05/17/22 10:43 Analyzed 05/12/22 11:00 Analyzed 05/12/22 11:00	Dil Fa 7735-
Analyte Lead Copper Manganese General Chemistry Analyte	0.0041 0.23 0.0095 Result 23 TSP041	Qualifier	0.00071 0.0014 0.00071 RL	0.00011 0.00011 0.000099 RL 0.30	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	<u> </u>	05/17/22 06:00 05/17/22 06:00 05/17/22 06:00 05/17/22 06:00 Prepared	05/17/22 10:43 05/17/22 10:43 05/17/22 10:43 05/17/22 10:43 Analyzed 05/12/22 11:00 Analyzed 05/12/22 11:00	Dil Fa

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-588236/1- Matrix: Air Analysis Batch: 588367	B MB	мв							CI	lier		ble ID: Method Prep Type: To Prep Batch:	otal/NA	
Analyte		Qualifier		RL	r	MDL	Unit		D	Pre	pared	Analyzed	Dil Fac	
Lead	ND		0.0	0012	0.00	0018	ug/m:	3 (Air)	05	/17/	22 06:00	05/17/22 10:03	1	
Copper	ND		0.0	0024	0.00	018	ug/m:	3 (Air)	05	/17/	22 06:00	05/17/22 10:03	1	2
Manganese	ND		0.0	0012	0.00	0017	ug/m3	3 (Air)	05	/17/	22 06:00	05/17/22 10:03	1	
Lab Sample ID: LCS 320-588236/2 Matrix: Air	-В							Clie	nt Sa	am		Lab Control S Prep Type: To	otal/NA	
Analysis Batch: 588367			Cuika		1.00	LCS						Prep Batch: %Rec	588238	
Analyte			Spike Added		Result			Unit		י כ	%Rec	%Rec		
Lead			0.240		0.241			ug/m3 (A	=		100	86 - 111		
Copper			0.240		0.230			ug/m3 (A	.ir)		96	85 - 110		
Manganese			0.240		0.235			ug/m3 (A	ir)		98	88 - 110		

Lab Sample ID: LCSD 320-588236/3-B Matrix: Air Analysis Batch: 588367

Analysis Batch: 588367							Prep Ba	tch: 58	38238
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.249		ug/m3 (Air)	_	104	86 - 111	3	15
Copper	0.240	0.259		ug/m3 (Air)		108	85 - 110	12	15
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110	2	15

Job ID: 320-87735-1

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

QC Association Summary

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-87735-1

	3050B	588236	
			13
rix	Method 6020	Prep Batch 588238	14
	6020	588238	
	6020	588238	
	6000	500000	

Pre	Pren	Batch:	588236
110	TICP	Daton.	000200

Metals

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-1	GILBANEPM031522-1890	Total/NA	Air	Filter to Air	
320-87735-3	GILBANEPM031522-1891	Total/NA	Air	Filter to Air	
320-87735-5	GILBANEPM041222-1892	Total/NA	Air	Filter to Air	
320-87735-7	GILBANEPM041222-1893	Total/NA	Air	Filter to Air	
MB 320-588236/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-588236/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-588236/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	
rep Batch: 588238					
l ah Sample ID	Client Sample ID	Pron Type	Matrix	Mothod	Prop Batch
•	Client Sample ID GILBANEPM031522-1890	Prep Type	Matrix	<u>Method</u> 3050B	Prep Batch 588236
320-87735-1	•			Method 3050B 3050B	Prep Batch 588236 588236
320-87735-1 320-87735-3	GILBANEPM031522-1890	Total/NA	Air	3050B	588236
320-87735-1 320-87735-3 320-87735-5	GILBANEPM031522-1890 GILBANEPM031522-1891	Total/NA Total/NA	Air Air	3050B 3050B	588236
320-87735-1 320-87735-3 320-87735-5 320-87735-7	GILBANEPM031522-1890 GILBANEPM031522-1891 GILBANEPM041222-1892	Total/NA Total/NA Total/NA	Air Air Air	3050B 3050B 3050B	588236 588236 588236
Lab Sample ID 320-87735-1 320-87735-3 320-87735-5 320-87735-7 MB 320-588236/1-B LCS 320-588236/2-B	GILBANEPM031522-1890 GILBANEPM031522-1891 GILBANEPM041222-1892 GILBANEPM041222-1893	Total/NA Total/NA Total/NA Total/NA	Air Air Air Air	3050B 3050B 3050B 3050B 3050B	588236 588236 588236 588236 588236

Analysis Batch: 588367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-1	GILBANEPM031522-1890	Total/NA	Air	6020	588238
320-87735-3	GILBANEPM031522-1891	Total/NA	Air	6020	588238
320-87735-5	GILBANEPM041222-1892	Total/NA	Air	6020	588238
320-87735-7	GILBANEPM041222-1893	Total/NA	Air	6020	588238
MB 320-588236/1-B	Method Blank	Total/NA	Air	6020	588238
LCS 320-588236/2-B	Lab Control Sample	Total/NA	Air	6020	588238
LCSD 320-588236/3-B	Lab Control Sample Dup	Total/NA	Air	6020	588238

General Chemistry

Pre Prep Batch: 588671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-2	GILBANETSP031522-1890	Total/NA	Air	Filter to Air	
320-87735-4	GILBANETSP031522-1891	Total/NA	Air	Filter to Air	
320-87735-6	GILBANETSP041222-1892	Total/NA	Air	Filter to Air	
320-87735-8	GILBANETSP041222-1893	Total/NA	Air	Filter to Air	

Analysis Batch: 588695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-1	GILBANEPM031522-1890	Total/NA	Air	PM10	
320-87735-3	GILBANEPM031522-1891	Total/NA	Air	PM10	
320-87735-5	GILBANEPM041222-1892	Total/NA	Air	PM10	
320-87735-7	GILBANEPM041222-1893	Total/NA	Air	PM10	

Analysis Batch: 588709

Lab Sample ID 320-87735-2	Client Sample ID GILBANETSP031522-1890	Prep Type Total/NA	Matrix	Method 40CFR50 App B	Prep Batch 588671
320-87735-4	GILBANETSP031522-1891	Total/NA	Air	40CFR50 App B	588671
320-87735-6	GILBANETSP041222-1892	Total/NA	Air	40CFR50 App B	588671
320-87735-8	GILBANETSP041222-1893	Total/NA	Air	40CFR50 App B	588671

Job ID: 320-87735-1

Client Sample ID: GILBANEPM031522-1890 Date Collected: 05/05/22 14:03 Date Received: 05/11/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1	•		588367	05/17/22 10:28	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0103 g	588695	05/12/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1890 Date Collected: 05/05/22 14:03 Date Received: 05/11/22 10:00

Prep Type Total/NA Total/NA	Batch Type Analysis Pre Prep	Batch Method 40CFR50 App B Filter to Air	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 588709 588671	Prepared or Analyzed 05/12/22 11:00 05/18/22 16:09		Lab TAL SAC TAL SAC
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Client Sample ID: GILBANEPM031522-1891 Date Collected: 05/05/22 13:50 Date Received: 05/11/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			588367	05/17/22 10:37	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0146 g	588695	05/12/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1891 Date Collected: 05/05/22 13:50 Date Received: 05/11/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			588709	05/12/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588671	05/18/22 16:09	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1892 Date Collected: 05/10/22 06:34 Date Received: 05/11/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			588367	05/17/22 10:40	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0228 g	588695	05/12/22 11:00	JMD	TAL SAC

Lab Sample ID: 320-87735-3 Matrix: Air

588367	05/17/22 10:37	SP	TAL SAC
588695	05/12/22 11:00	JMD	TAL SAC

Lab Sample ID: 320-87735-4

Lab Sample ID: 320-87735-5

Matrix: Air

Matrix: Air

Client Sample ID: GILBANETSP041222-1892 Date Collected: 05/10/22 06:34 Date Received: 05/11/22 10:00

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			588709	05/12/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588671	05/18/22 16:09	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1893 Date Collected: 05/10/22 06:20 Date Received: 05/11/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			588367	05/17/22 10:43	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0393 g	588695	05/12/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1893 Date Collected: 05/10/22 06:20 Date Received: 05/11/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			588709	05/12/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588671	05/18/22 16:09	JMD	TAL SAC

Laboratory References:

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

Job ID: 320-87735-1

Lab Sample ID: 320-87735-7

Lab Sample ID: 320-87735-8

Lab Sample ID: 320-87735-6 Matrix: Air

Matrix: Air

Matrix: Air

Accreditation/Certification Summary

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

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	05-17-22
Oregon	NELAP	4040	01-29-23

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

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8
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11
13

Method	Method Description	Protocol	Laborator
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 Refe	rences:		
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: 320-87735-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87735-1	GILBANEPM031522-1890	Air	05/05/22 14:03	05/11/22 10:00
320-87735-2	GILBANETSP031522-1890	Air	05/05/22 14:03	05/11/22 10:00
320-87735-3	GILBANEPM031522-1891	Air	05/05/22 13:50	05/11/22 10:00
320-87735-4	GILBANETSP031522-1891	Air	05/05/22 13:50	05/11/22 10:00
320-87735-5	GILBANEPM041222-1892	Air	05/10/22 06:34	05/11/22 10:00
320-87735-6	GILBANETSP041222-1892	Air	05/10/22 06:34	05/11/22 10:00
320-87735-7	GILBANEPM041222-1893	Air	05/10/22 06:20	05/11/22 10:00
320-87735-8	GILBANETSP041222-1893	Air	05/10/22 06:20	05/11/22 10:00

CH	CHAIN-OF-CUSTODY RECORD		Gilba Brett 2300 bwor	Gilbane Federal Brett Womack 2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com	l oad, Suite -ais.com	1050	Con	cord, +	CA 945	520			COC # KT051022AIR	(Т05102	2AIR	~ /		Cilbane	
Proje	Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	oyard, P	arcel E RA Ph	ase 2		Lab	orator	y: EU	SOFIN	S ENV	IRONA	AENT .	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	CALIFORN	IIA, LLC	(EETN		Parcel E Phase 2 Air	
Proje	Project Number: J310000400					POC:	ö											Monitoring May 2022	
WBS	WBS Code: J310000400-016					Ship	ž												
Com	Comments:						-						Code Matrix						—
													A Air						
							<u>.</u>						Code Container/Preservative	ve					
													1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None	Degrees C					
					hodte		0-1	n <u></u>											
Equi	Equipment:				alytical Test M	01M9 1iA - AIA	987 - 003	VI d9 - Air A - 0203V		· · · · · · · · · · · · · · · · · · ·									
	Evant: Darrel E Dhase 3 Air Monitoring May 2023	noitorioo	COUC NEW					AS -						100000 In LINE OC / /9-075		6m2 10	í no		
	LVBIIL FAILE FIIASE Z AII W		I May 2022			-	-+-			1	-								
3,	Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type		Depth (ft bgs) Top - Bottom	Cooler	Comments	
-	GILBANEPM031522-1890	A	05/05/2022	1403	КT	×	Ĥ	×					AMSE1	N2	0.00	0.00	-	NOLU	T
2	GILBANETSP031522-1890	۲	05/05/2022	1403	КT		×						AMSE1	N2	0.00	0.00	-	VOLUME: 516.31 (M3)	1
	GILBANEPM031522-1891	A	05/05/2022	1350	¥	×		×					AMSE2	N2	0.00		-	VOLUME: 527.57 (M3)	
	GILBANETSP031522-1891	4	05/05/2022	1350	¥		×					-	AMSE2	N2	0.00	0.00	1	VOLUME: 530.25 (M3)	T
- 1	GILBANEPM041222-1892		05/10/2022	0634	¥	×		×			_		AMSE1	N1	0.00	0.00	-	VOLUME: 1703.34 (M3)	r
-	GILBANETSP041222-1892	-+	05/10/2022	0634	¥		×	\neg					AMSE1	ž	0.00	0.00	-	VOLUME: 1629.20 (M3)	
	GILBANEPM041222-1893	+	05/10/2022	0620	¥	×		×					AMSE2	Ŋ	00.0	0.00	1	VOLUME:1693.05 (M3)	
	GILBANETSP041222-1893	4	05/10/2022	0620	¥		×	-					AMSE2	ź	0.00	0.00	-	VOLUME: 1697.99 (M3)	1
6 4							$-\ $												
Turns	Turnaround Time: 5 days				_		-	-	-		-								R
																			4
-			Date	Time	Received by:	d by:	(Sigi	(Signature)					Date Time	Shipping Date / Carrier / Airbill Number	Date / C	arrier /	Airbill Nu	Imber	
		5	12 01	d pl	Ged Gx	۲,							122 1600	Shipping D	ate: 5/1	0/2022	/ FedEx 7	Shipping Date: 5/10/2022 / FedEx 7768 1074 8630	1
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		+										2	1-2~ 1330	Received	by Labo	ratory	(Signatur	Received by Laboratory: (Signature, Date, Time) & condition	
		+																	1
		_																	
Gilbane May 10	Gilbane.Navy_COC_Field May 10, 2022													19.4	5			Page 1 of 1	1 -
												1	1 12 13	9 1(8		6	2 3 4 5	1
												1	2						

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 87735 List Num<u>ber: 1</u>

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

List Source: Eurofins Sacramento

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-87858-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn:

..... Links

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The

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Expert

Authorized for release by: 5/20/2022 6:37:17 PM

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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Method Summary	14
Sample Summary	15
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Definitions/Glossary

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

Job ID: 320-87858-1

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Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)
٦L	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

Job ID: 320-87858-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-87858-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/13/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.1° C.

Metals

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

Detection Summary

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

011

Client Sample ID: GILBA	NEPM0412	22-1894				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0035		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.033		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0075		0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	16		0.29	0.29	ug/m3	1	PM10	Total/NA
lient Sample ID: GILBA	NETSP041	222-1894				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Total Suspended Particulates	24.5375		0.3037	0.3037	ug/m3 (Air)	1	40CFR50 App B	Total/NA
lient Sample ID: GILBA	NEPM0412	22-1895				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0044		0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.012		0.0014		ug/m3 (Air)	1	6020	Total/NA
Vanganese	0.0092		0.00070		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	16		0.29		ug/m3	1	PM10	Total/NA
lient Sample ID: GILBA	NETSP041	222-1895				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Total Suspended Particulates	32.3923		0.2903	0.2903	ug/m3 (Air)	1	- 40CFR50 App B	
lient Sample ID: GILBA	NEPM0412	22-1896				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.012		0.00068	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.061		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.010		0.00068	0.000095	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	22		0.28	0.28	ug/m3	1	PM10	Total/NA
lient Sample ID: GILBA	NETSP041	222-1896				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Туре
Total Suspended Particulates	35.9693		0.2968	0.2968	ug/m3 (Air)	1	40CFR50 App B	Total/NA
lient Sample ID: GILBA	NEPM0412	22-1897				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Туре
Lead	0.0035		0.00068	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.017		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.012		0.00068	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	19		0.28	0.28	ug/m3	1	PM10	Total/NA
lient Sample ID: GILBA	NETSP041	222-1897				Lab S	ample ID: 32	0-87858
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type

This Detection Summary does not include radiochemical test results.

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel			-						
	E, Phase 2	2						Job ID: 320-8	37858-1
Client Sample ID: GILBANE Date Collected: 05/11/22 06:30 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter	PM0412	22-1894				L	ab Sample.	e ID: 320-87 Mat	7858-1 rix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0035		0.00069		ug/m3 (Air)		05/19/22 06:30	05/19/22 12:55	1
Copper	0.033		0.0014		ug/m3 (Air)		05/19/22 06:30	05/20/22 12:43	1
Manganese	0.0075		0.00069	0.000097	ug/m3 (Air)		05/19/22 06:30	05/19/22 12:55	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.29	0.29	ug/m3			05/16/22 11:30	1
Client Sample ID: GILBANE Date Collected: 05/11/22 06:30 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter	TSP041	222-1894				L	ab Sample.	e ID: 320-87 Mat	7858-2 rix: Air
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.5375		0.3037	0.3037	ug/m3 (Air)			05/16/22 11:30	1
Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter								Mat	rix: Air
Method: 6020 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0044		0.00070		ug/m3 (Air)	-	05/19/22 06:30	05/19/22 13:05	1
	0.012		0.0014		ug/m3 (Air)		05/19/22 06:30	05/20/22 12:46	1
Copper					(05/19/22 06:30	05/19/22 13:05	1
Manganese	0.0092		0.00070	0.000097	ug/m3 (Air)		00/10/22 00.00	00/10/22 10:00	
Manganese	0.0092		0.00070	0.000097	ug/m3 (Air)		00,10,22 00100	00/10/22 10:00	
Manganese General Chemistry		Qualifier				D			Dil Fac
Manganese		Qualifier	0.00070 RL 0.29	RL	ug/m3 (Air) Unit ug/m3	D	Prepared	Analyzed 05/16/22 11:30	Dil Fac
Manganese General Chemistry Analyte	Result 16		RL	RL	Unit		Prepared	Analyzed 05/16/22 11:30 D: 320-87	1
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry	Result 16 TSP041	222-1895	RL 0.29	RL 0.29	Unit ug/m3	L	Prepared	Analyzed 05/16/22 11:30 HD: 320-87 Mat	1 7858-4 rix: Air
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry Analyte	Result 16 TSP041 Result		RL 0.29	RL 0.29	Unit ug/m3		Prepared	Analyzed 05/16/22 11:30 a ID: 320-87 Mat	1 7858-4 rix: Air Dil Fac
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates	Result 16 TSP041 Result 32.3923	222-1895 Qualifier	RL 0.29	RL 0.29	Unit ug/m3		Prepared ab Sample	Analyzed 05/16/22 11:30 D: 320-87 Mat Analyzed 05/16/22 11:30	1 7858-4 rix: Air Dil Fac
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry Analyte	Result 16 TSP041 Result 32.3923	222-1895 Qualifier	RL 0.29	RL 0.29	Unit ug/m3		Prepared ab Sample	Analyzed 05/16/22 11:30 PID: 320-87 Mat Analyzed 05/16/22 11:30 PID: 320-87	1 7858-4 rix: Air Dil Fac
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/12/22 06:52 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	Result 16 TSP041 Result 32.3923 PM0412	222-1895 Qualifier	RL 0.29 RL 0.2903	RL 0.29 RL 0.2903	Unit ug/m3	L D L	Prepared .ab Sample Prepared .ab Sample	Analyzed 05/16/22 11:30 2 ID: 320-87 Mat 2 Mat 05/16/22 11:30 2 ID: 320-87 Mat	1 7858-4 rrix: Air 1 7858-5 rrix: Air
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/12/22 06:52 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	Result TSP041 Result 32.3923 PM0412 Result	222-1895 Qualifier	RL 0.29 RL 0.2903	RL 0.29 RL 0.2903	Unit ug/m3 Unit ug/m3 (Air) Unit		Prepared ab Sample Prepared ab Sample	Analyzed 05/16/22 11:30 PID: 320-87 Mat Analyzed 05/16/22 11:30 PID: 320-87 Mat Analyzed	1 7858-4 rrix: Air Dil Fac 1 7858-5
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/12/22 06:52 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	Result 16 TSP041 32.3923 PM0412 Result 0.012	222-1895 Qualifier	RL 0.29 RL 0.2903	RL 0.29 RL 0.2903 MDL 0.00010	Unit ug/m3 Unit ug/m3 (Air) Unit ug/m3 (Air)	L D L	Prepared .ab Sample Prepared .ab Sample Prepared 05/19/22 06:30	Analyzed 05/16/22 11:30 2 ID: 320-87 Mat 05/16/22 11:30 2 ID: 320-87 Mat 05/16/22 11:30 2 ID: 320-87 Mat 05/19/22 13:08	1 7858-4 rrix: Air 1 7858-5 rrix: Air
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANE Date Collected: 05/12/22 06:52 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	Result TSP041 Result 32.3923 PM0412 Result	222-1895 Qualifier	RL 0.29 RL 0.2903	RL 0.29 RL 0.2903 0.2903 MDL 0.00010 0.00010	Unit ug/m3 Unit ug/m3 (Air) Unit	L D L	Prepared .ab Sample Prepared .ab Sample .ab Sample .ab Sample	Analyzed 05/16/22 11:30 PID: 320-87 Mat Analyzed 05/16/22 11:30 PID: 320-87 Mat Analyzed	1 7858-4 rrix: Air 1 7858-5 rrix: Air

Job ID: 320-87858-1

Client Sample Results

		Client S	Sample	Resul	ts				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	, Phase 2	2						Job ID: 320-8	37858-
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:52 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter	PM0412	22-1896				L	ab Sample	e ID: 320-87 Mat	′858-∜ rix: Ai
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10	22		0.28	0.28	ug/m3			05/16/22 11:30	
Client Sample ID: GILBANE Date Collected: 05/12/22 06:52 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter	FSP041	222-1896				L	ab Sample	e ID: 320-87 Mat	'858-6 rix: Ai
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
	25.0002		0.2968	0 2968	ug/m3 (Air)			05/16/22 11:30	
_Total Suspended Particulates Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43	35.9693 PM0412	22-1897	0.2900	0.2000		L	ab Sample	D: 320-87	
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter		22-1897	0.2300			L	ab Sample		
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	PM0412							Mat	rix: Ai
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	PM0412	22-1897 Qualifier	RL 0.00068	MDL	Unit ug/m3 (Air)	D	ab Sample Prepared 05/19/22 06:30		rix: Ai
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	PM0412 Result		RL	MDL 0.00010	Unit	D	Prepared 05/19/22 06:30	Mat	rix: Ai
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	PM0412 Result 0.0035		RL 0.00068	MDL 0.00010 0.00010	Unit ug/m3 (Air)	<u>D</u>	Prepared 05/19/22 06:30 05/19/22 06:30	Mat <u>Analyzed</u> 05/19/22 13:11	rix: Ai
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese	Result 0.0035 0.017		RL 0.00068 0.0014	MDL 0.00010 0.00010	Unit ug/m3 (Air) ug/m3 (Air)	<u>D</u>	Prepared 05/19/22 06:30 05/19/22 06:30	Mat <u>Analyzed</u> 05/19/22 13:11 05/20/22 12:53	rix: Ai
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper	Result 0.0035 0.017 0.012		RL 0.00068 0.0014	MDL 0.00010 0.000096	Unit ug/m3 (Air) ug/m3 (Air)	<u>D</u>	Prepared 05/19/22 06:30 05/19/22 06:30	Mat <u>Analyzed</u> 05/19/22 13:11 05/20/22 12:53	7858-7 rix: Ai Dil Fa
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry	Result 0.0035 0.017 0.012	Qualifier	RL 0.00068 0.0014 0.00068	MDL 0.00010 0.000096 RL	Unit ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	<u> </u>	Prepared 05/19/22 06:30 05/19/22 06:30 05/19/22 06:30	Mat <u>Analyzed</u> 05/19/22 13:11 05/20/22 12:53 05/19/22 13:11	rix: Ai
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte	Result 0.0035 0.017 0.012 Result 19	Qualifier	RL 0.00068 0.0014 0.00068 RL	MDL 0.00010 0.000096 RL	Unit ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	<u>D</u>	Prepared 05/19/22 06:30 05/19/22 06:30 05/19/22 06:30 Prepared	Mat <u>Analyzed</u> 05/19/22 13:11 05/20/22 12:53 05/19/22 13:11 <u>Analyzed</u>	Dil Fa
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10	Result 0.0035 0.017 0.012 Result 19	Qualifier	RL 0.00068 0.0014 0.00068 RL	MDL 0.00010 0.000096 RL	Unit ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	<u>D</u>	Prepared 05/19/22 06:30 05/19/22 06:30 05/19/22 06:30 Prepared	Mat <u>Analyzed</u> 05/19/22 13:11 05/20/22 12:53 05/19/22 13:11 <u>Analyzed</u> 05/16/22 11:30 D: 320-87	Dil Fa
Client Sample ID: GILBANEI Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35	Result 0.0035 0.017 0.012 Result 19 TSP041	Qualifier	RL 0.00068 0.0014 0.00068 RL	MDL 0.00010 0.000096 RL 0.28	Unit ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	<u>D</u>	Prepared 05/19/22 06:30 05/19/22 06:30 05/19/22 06:30 Prepared	Mat <u>Analyzed</u> 05/19/22 13:11 05/20/22 12:53 05/19/22 13:11 <u>Analyzed</u> 05/16/22 11:30 D: 320-87	Dil Fa

Job ID: 320-87858-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-588788/1-B Matrix: Air Analysis Batch: 589121	МВ					Clie	ent Samp	ole ID: Met Prep Type Prep Bate	e: To	tal/NA
		ы				_		A	J	
	Qualifier	RL		DL Unit			repared	Analyze		Dil Fac
Lead ND		0.0012		18 ug/n			19/22 06:30			1
Manganese ND		0.0012	0.000	17 ug/n	n3 (Air)	05/1	19/22 06:30	05/19/22 12	2:27	1
Lab Sample ID: MB 320-588788/1-B						Clie	ent Sam	ole ID: Met	hod	Blank
Matrix: Air								Prep Type		
Analysis Batch: 589263								Prep Bate		
-	MB							Top Date		
	Qualifier	RL	м	DL Unit	D	Р	repared	Analyze	ł	Dil Fac
Copper ND		0.0024	0.000	18 ug/m	n3 (Air)		•	05/20/22 12		1
Lab Sample ID: LCS 320-588788/2-B					Clien	t Sa	mple ID:	Lab Conti		
Matrix: Air								Prep Type		
Analysis Batch: 589121								Prep Bate	ch: 5	88793
		Spike	LCS L	LCS				%Rec		
Analyte		Added	Result (Qualifier	Unit	D	%Rec	Limits		
Lead		0.240	0.250		ug/m3 (Air))	104	86 - 111		
Manganese		0.240	0.234		ug/m3 (Air))	98	88 - 110		
Lab Sample ID: 1 CS 220 599799/2 B					Client		mala ID.	Lab Cant		amala
Lab Sample ID: LCS 320-588788/2-B					Clien	. 5a	mple ID:	Lab Conti		
Matrix: Air								Prep Type		
Analysis Batch: 589263		0		~~				Prep Bate	:n: 5	88793
A such da		Spike	LCS L		11	-	0/ D	%Rec		
Analyte		Added	Result 0.242	Juaimer		<u> </u>	%Rec	Limits		
Copper		0.240	0.242		ug/m3 (Air))	101	85 - 110		
Lab Sample ID: LCSD 320-588788/3-B					Client San	nple	ID: Lab	Control Sa	ampl	e Dup
Matrix: Air								Prep Type		
Analysis Batch: 589121								Prep Bate		
		Spike	LCSD L	CSD				%Rec		RPD
Analyte		Added	Result (Unit	D	%Rec	Limits	RPD	Limit
Lead		0.240	0.243		ug/m3 (Air)		101	86 - 111	3	15
Manganese		0.240	0.237		ug/m3 (Air)		99	88 - 110	1	15
					- 3 ,,	, 				
Lab Sample ID: LCSD 320-588788/3-B					Client San	nple	ID: Lab	Control Sa	ampl	e Dup
Matrix: Air								Prep Type	e: To	tal/NA
Analysis Batch: 589263								Prep Bate	ch: 5	88793
		Spike	LCSD L	CSD				%Rec		RPD
Analyte		Added	Result (Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper		0.240	0.233		ug/m3 (Air		97	85 - 110	4	15

QC Association Summary

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-87858-1

Pre	Prep	Batch:	588788

Metals

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	Filter to Air	
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	Filter to Air	
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	Filter to Air	
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	Filter to Air	
MB 320-588788/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	
Prep Batch: 588793					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	3050B	58878
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	3050B	58878
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	3050B	58878
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	3050B	58878
MB 320-588788/1-B	Method Blank	Total/NA	Air	3050B	58878
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	3050B	58878
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	58878
Analysis Batch: 5891					
Lab Sample ID 320-87858-1	Client Sample ID GILBANEPM041222-1894	Prep Type Total/NA	Matrix	<u>Method</u> 6020	_ Prep Batc 58879
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	6020	58879
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	6020	58879
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	6020	58879
MB 320-588788/1-B	Method Blank	Total/NA	Air	6020	58879
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	6020	58879
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	6020	58879
Analysis Batch: 5892	63				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	6020	58879
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	6020	58879
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	6020	58879
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	6020	58879
MB 320-588788/1-B	Method Blank	Total/NA	Air	6020	58879
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	6020	58879
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	6020	58879
General Chemistr	У				
Pre Prep Batch: 5889	31				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
320-87858-2	GILBANETSP041222-1894	Total/NA	Air	Filter to Air	
320-87858-4	GILBANETSP041222-1895	Total/NA	Air	Filter to Air	
220 07050 6	GILBANETSP041222-1896	Total/NA	Air	Filter to Air	
320-87858-6					
320-87858-8	GILBANETSP041222-1897	Total/NA	Air	Filter to Air	

Client Sample ID Method Prep Batch Lab Sample ID Prep Type Matrix PM10 320-87858-1 GILBANEPM041222-1894 Total/NA Air 320-87858-3 GILBANEPM041222-1895 Total/NA Air PM10

QC Association Summary

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

Job ID: 320-87858-1

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Eurofins Sacramento

Analysis Batch: 589341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	PM10	
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	PM10	

Analysis Batch: 589342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-2	GILBANETSP041222-1894	Total/NA	Air	40CFR50 App B	588931
320-87858-4	GILBANETSP041222-1895	Total/NA	Air	40CFR50 App B	588931
320-87858-6	GILBANETSP041222-1896	Total/NA	Air	40CFR50 App B	588931
320-87858-8	GILBANETSP041222-1897	Total/NA	Air	40CFR50 App B	588931

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

Job ID: 320-87858-1

Matrix: Air

Matrix: Air

Lab Sample ID: 320-87858-1

Client Sample ID: GILBANEPM041222-1894 Date Collected: 05/11/22 06:30 Date Received: 05/13/22 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589121	05/19/22 12:55	SP	TAL SAC
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589263	05/20/22 12:43	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0284 g	589341	05/16/22 11:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1894 Date Collected: 05/11/22 06:30

Date Received: 05/13/22 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			589342	05/16/22 11:30	JMD	TAL SAC	4
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC	

Client Sample ID: GILBANEPM041222-1895 Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35

Lab Sample ID: 320-87858-3 Matrix: Air

Lab Sample ID: 320-87858-2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589121	05/19/22 13:05	SP	TAL SAC
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589263	05/20/22 12:46	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0280 g	589341	05/16/22 11:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1895 Date Collected: 05/11/22 06:20 Date Received: 05/13/22 09:35

Lab Sample ID: 320-87858-4 Matrix: Air

Dil Batch Batch Initial Final Batch Prepared Method or Analyzed Prep Type Туре Run Factor Amount Amount Number Analyst Lab Total/NA Analysis 40CFR50 App B 589342 05/16/22 11:30 JMD TAL SAC 1 Filter to Air Total/NA Pre Prep 05/19/22 11:55 JMD TAL SAC 588931

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

Job ID: 320-87858-1

Matrix: Air

Client Sample ID: GILBANEPM041222-1896 Date Collected: 05/12/22 06:52 Date Received: 05/13/22 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589121	05/19/22 13:08	SP	TAL SAC
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589263	05/20/22 12:49	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0390 g	589341	05/16/22 11:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1896 Date Collected: 05/12/22 06:52

Date Received: 05/13/22 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			589342	05/16/22 11:30	JMD	TAL SAC	4
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC	

Client Sample ID: GILBANEPM041222-1897 Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Pre Prep Filter to Air 588788 05/19/22 05:30 NIM TAL SAC 3050B 588793 05/19/22 06:30 NIM TAL SAC Prep 0.08333 100 mL Sample 6020 589121 05/19/22 13:11 SP TAL SAC Analysis 1 TAL SAC Pre Prep Filter to Air 588788 05/19/22 05:30 NIM 3050B 0.08333 TAL SAC Prep 100 mL 588793 05/19/22 06:30 NIM Sample

0 g

Client Sample ID: GILBANETSP041222-1897 Date Collected: 05/12/22 06:43 Date Received: 05/13/22 09:35

6020

PM10

Analysis

Analysis

Lab Sample ID: 320-87858-8 Matrix: Air

05/20/22 12:53 JMD

05/16/22 11:30 JMD

589263

589341

0.0339 g

D	Batch	Batch	Dura	Dil	Initial	Final	Batch	Prepared	Ameliat	Lab
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			589342	05/16/22 11:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

1

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Laboratory References:

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

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

Lab Sample ID: 320-87858-5

Lab Sample ID: 320-87858-6 Matrix: Air

Lab Sample ID: 320-87858-7

Matrix: Air

TAL SAC

TAL SAC

Accreditation/Certification Summary

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

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

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

-1	
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	11
	12

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

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

.loh	ıD·	320	-87	858- ⁻	1
300	ıD.	020	-07	000-	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87858-1	GILBANEPM041222-1894	Air	05/11/22 06:30	05/13/22 09:35
320-87858-2	GILBANETSP041222-1894	Air	05/11/22 06:30	05/13/22 09:35
320-87858-3	GILBANEPM041222-1895	Air	05/11/22 06:20	05/13/22 09:35
320-87858-4	GILBANETSP041222-1895	Air	05/11/22 06:20	05/13/22 09:35
320-87858-5	GILBANEPM041222-1896	Air	05/12/22 06:52	05/13/22 09:35
320-87858-6	GILBANETSP041222-1896	Air	05/12/22 06:52	05/13/22 09:35
320-87858-7	GILBANEPM041222-1897	Air	05/12/22 06:43	05/13/22 09:35
320-87858-8	GILBANETSP041222-1897	Air	05/12/22 06:43	05/13/22 09:35

CHAIN-OF-CUSTODY RECORD	Адо.	Gill Bre bw	Gilbane Federal Brett Womack 2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com	l oad, Suite s-ais.com	1050,	Concor	d, CA 9	4520			COC # KT051222AIR	Т0512	22AI	£		Gilbane
Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	oint Shipya	rd, Parcel E RA I	ohase 2		Labo	atory: I	EUROF	NS ENV	IRONM	ENT TESTIN	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	CALIFORI	VIA, LL	C (EETN		t: Parcel E Phase 2 Air
Project Number: J310000400 WBS Code: J310000400-016)400 016				PO(Ship											Monitoring May 2022
Comments: Equipment:				nalytical Test Method	01M9 אוי אואס - אואס	0500 - Air Pb Mn Cu W6020 - Air Pb Mn Cu					Code Matrix A Air Dode Container/Preservative Code Container/Preservative 1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None					
Event: Parcel E Phase 2 Air Monitoring May 2022	e 2 Air Monit	ioring May 2022		A	- c	_										
Comolo ID			F	Samp								Sample		Depth (ft bgs)	s)	
1 GII BANFPM041222-1894			1 Ime	Luit.	>	,		+			Location ID	Type	-+-		ő	
	+		0630	2 5	<	< ×	+		+		AMSE1 AMSE1	ž ž	0.00	0.00		VOLUME: 1730.86 (M3)
3 GILBANEPM041222-1895	+	+	0620	2	×	×	-	+			AMSE2	žž		-		VOLUME: 1646.46 (M3) VOLUME: 1775.97 (M3)
4 GILBANETSP041222-1895		A 05/11/2022	0620	¥	+	×		+			AMSE2	ž	0.00	+	_	VOLUME: 1722.63 (M3)
5 GILBANEPM041222-1896		A 05/12/2022	0652	КŢ	×	×					AMSE1	۶	0.00	00.0	-	VOLUME: 1767.37 (M3)
6 GILBANETSP041222-1896		A 05/12/2022	0652	КT		×					AMSE1	ž	0.00	0.00	•	VOLUME: 1684.77 (M3)
7 GILBANEPM041222-1897		A 05/12/2022	0643	КŢ	×	×					AMSE2	ž	0.00	0.00	-	VOLUME: 1757.78 (M3)
8 GILBANETSP041222-1897	-+	A 05/12/2022	0643	호	×						AMSE2	N1	0.00	00.0	-	VOLUME: 1758.76 (M3)
0									-	2F	5/12/22					
Turnaround Time: 5 days	-	_		_									4	+-	4	
Relinquished by: (Signature)	(nre)	Date	Time	Received by:		(Signature)	(re)			Date	Time	Shinning Date / Carrier / Aichill Mumhor	Data /	Carrior	A lichill	lumbar
		5/12/22	-	L		ex.				5/12/2		Shipping [Date: 5/	12/2022	/ FedEx	Shipping Date: 5/12/2022 / FedEx 7768 3093 5431
								EETEAC		5/13/22	2 9:36					
									2		2	Received	by Lat	oratory	: (Signat	Received by Laboratory: (Signature, Date, Time) & condition
Gilbane.Navy_COC_Field May 12, 2022													21.1%	2		Page 1 of 1
										1		1				
										3		9	5			2 3 4 5

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 87858 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 320-87858-1

List Source: Eurofins Sacramento

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-88029-1

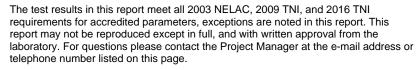
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn:

Authorized for release by: 5/25/2022 3:18:26 PM



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.

..... Links **Review your project** results through EOL Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

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Definitions/Glossary

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

Job ID: 320-88029-1

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Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Job ID: 320-88029-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-88029-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/18/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.0° C.

Metals

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

Detection Summary

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

Client Sample ID: GILBA	NEPM0412	22-1898				Lab Sa	ample ID: 32	0-88029-
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Lead	0.0028		0.0022	0.00034	ug/m3 (Air)	1	6020	Total/NA
Copper	0.037		0.0045	0.00034	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0069		0.0022	0.00031	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	9.9		0.94	0.94	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBA	NETSP041	222-1898				Lab Sa	ample ID: 32	0-88029-
_ Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac) Method	Prep Туре
Total Suspended Particulates	6.2878		0.9825	0.9825	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GILBA	NEPM0412	22-1899				Lab Sa	ample ID: 32	0-88029-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac) Method	Prep Type
Lead	0.0071		0.0023	0.00034	ug/m3 (Air)	1	6020	Total/NA
Copper	0.035		0.0045	0.00034	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.016		0.0023	0.00032	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	19		0.94	0.94	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBA	NETSP041	222-1899				Lab Sa	ample ID: 32	0-88029-
 Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	Method	Prep Type
Total Suspended Particulates	46.9378		0.9388	0.9388	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GILBA	NEPM0412	22-1900				Lab Sa	ample ID: 32	0-88029-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac) Method	Prep Туре
Lead	0.0020		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA

Client Sample ID: GILBA	NETSP041222-1900				Lab S	ample ID	: 320-88029-6
Particulate Matter as PM 10	25	0.29	0.29	ug/m3	1	PM10	Total/NA
Manganese	0.0076	0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
Copper	0.015	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Lead	0.0020	0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	39.9117	0.3024	0.3024 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1901

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0058	0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.013	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012	0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	30	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1901 Lab Sample ID: 320-88029-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	75.8279		0.2901	0.2901	ug/m3 (Air)	1	40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 320-88029-7

Job ID: 320-88029-1

			Jailipie	Negui	ເວ				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	E, Phase 2		•					Job ID: 320-8	38029-1
Client Sample ID: GILBANE Date Collected: 05/12/22 14:19 Date Received: 05/18/22 10:00 Sample Container: Folder/Filter	PM0412	22-1898				L	₋ab Sample		3029-1 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.0022		ug/m3 (Air)		05/23/22 07:00	05/23/22 16:27	1
Copper	0.037		0.0045 0.0022		ug/m3 (Air) ug/m3 (Air)		05/23/22 07:00	05/23/22 16:27 05/23/22 16:27	1
Manganese	0.0069		0.0022	0.00031	ug/m3 (Air)		03/23/22 07.00	03/23/22 10.27	1
General Chemistry									
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.9		0.94	0.94	ug/m3			05/19/22 09:15	1
Client Sample ID: GILBANE	TSP041	222-1898				L	_ab Sample	e ID: 320-88	3029-2
Date Collected: 05/12/22 14:19								Ma	trix: Air
Date Received: 05/18/22 10:00									
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	6.2878		0.9825	0.9825	ug/m3 (Air)			05/19/22 09:15	1
Client Sample ID: GILBANE Date Collected: 05/12/22 14:09 Date Received: 05/18/22 10:00 Sample Container: Folder/Filter							₋ab Sample		trix: Air
Method: 6020 - Metals (ICP/MS)	Decult	Qualifier	RL	MDI	Unit	D	Drenered	A naharad	
Analyte Lead	0.0071	Qualifier	0.0023		ug/m3 (Air)		Prepared 05/23/22 07:00	Analyzed 05/23/22 16:30	Dil Fac
Copper	0.035		0.0045		ug/m3 (Air)		05/23/22 07:00	05/23/22 16:30	1
Manganese	0.016		0.0023	0.00032	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:30	1
General Chemistry Analyte	Rosult	Qualifier	RL	RI	Unit	п	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.94		ug/m3		Trepared	05/19/22 09:15	1
L		000 4000			•				000 4
Client Sample ID: GILBANE Date Collected: 05/12/22 14:09 Date Received: 05/18/22 10:00	15P041	222-1899				L	_ab Sample		5029-4 trix: Air
Sample Container: Folder/Filter									
General Chemistry									
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.9378		0.9388	0.9388	ug/m3 (Air)			05/19/22 09:15	1
Client Sample ID: GILBANE Date Collected: 05/17/22 06:48 Date Received: 05/18/22 10:00 Sample Container: Folder/Filter	PM0412	22-1900				L	₋ab Sample		3029-5 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020		0.00069		ug/m3 (Air)	_	05/23/22 07:00	05/23/22 16:34	1
Copper	0.015		0.0014		ug/m3 (Air)			05/23/22 16:34	1
Manganese	0.0076		0.00069	0.000097	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:34	1
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5/25/2022

Client Sample Results

		Client	Sample	Resul	เร				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel I	E, Phase 2	2						Job ID: 320-8	8029-1
Client Sample ID: GILBANE Date Collected: 05/17/22 06:48 Date Received: 05/18/22 10:00 Sample Container: Folder/Filter	PM0412	22-1900				L	ab Sample.	e ID: 320-88 Mat	8 029-5 rix: Air
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		0.29	0.29	ug/m3			05/19/22 09:15	1
Client Sample ID: GILBANE Date Collected: 05/17/22 06:48 Date Received: 05/18/22 10:00 Sample Container: Folder/Filter	TSP041	222-1900				L	ab Sample.	e ID: 320-88 Mat	8029-6 rix: Air
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.9117		0.3024	0.3024	ug/m3 (Air)			05/19/22 09:15	1
Date Collected: 05/17/22 06:37 Date Received: 05/18/22 10:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)								Mat	rix: Air
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0058		0.00070	0.00010	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:37	1
Copper	0.013		0.0014		ug/m3 (Air)		05/23/22 07:00		1
Manganese	0.012		0.00070	0.000097	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:37	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	30		0.29	0.29	ug/m3			05/19/22 09:15	1
Client Sample ID: GILBANE	TSP041	222-1901				L	ab Sample	D: 320-88	029-8
Date Collected: 05/17/22 06:37 Date Received: 05/18/22 10:00 Sample Container: Folder/Filter									rix: Air
General Chemistry	Desult	Qualifier			11	_	Decensional	Amakina	
Analyte Total Suspended Particulates	75.8279	Qualifier	RL 0.2901		Unit ug/m3 (Air)	<u>D</u>	Prepared	Analyzed 05/19/22 09:15	Dil Fac
Total Suspended Faiticulates	10.0219		0.2301	0.2301	agrino (Air)			00/10/22 00.10	1

5/25/2022

				Job ID: 320-8	8029-1	2
						3
		Clie	nt Samp	le ID: Methoc Prep Type: To	otal/NA	4
				Prep Batch:	589655	5
it	D	P	repared	Analyzed	Dil Fac	
/m3	(Air)	05/2	3/22 07:00	05/23/22 15:49	1	6
/m3	(Air)	05/2	3/22 07:00	05/23/22 15:49	1	
/m3	(Air)	05/2	3/22 07:00	05/23/22 15:49	1	7
	Client	Sar	nple ID:	Lab Control S Prep Type: To	-	8
				Prep Batch: %Rec	589655	9
er	Unit	D	%Rec	Limits		40
	ug/m3 (Air)		103	86 - 111		10
	ug/m3 (Air)		101	85 - 110		
	ug/m3 (Air)		101	88 - 110		11
С	lient Sam	ple	ID: Lab	Control Samp	le Dup	12

13

Prep Type: Total/NA

Lab Sample ID: MB 320-589639/1-B Matrix: Air

Analysis Batch: 589954

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	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/23/22 07:00	05/23/22 15:49	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/23/22 07:00	05/23/22 15:49	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/23/22 07:00	05/23/22 15:49	1
Lab Sample ID: LCS 320-589639)/2-B				С	lien		Lab Control S	
Matrix: Air								Prep Type: To	
Analysis Batch: 589954			•		_			Prep Batch:	009000
			Spike	LCS LCS	5			%Rec	

	opino	200	200				/01100		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Lead	0.240	0.248		ug/m3 (Air)	_	103	86 - 111	 	-
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110		
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110		

Lab Sample ID: LCSD 320-589639/3-B Matrix: Air Analysis Batch: 589954

Analysis Batch: 589954							Prep Ba	atch: 58	89655
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.244		ug/m3 (Air)	_	102	86 - 111	2	15
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.251		ug/m3 (Air)		104	88 - 110	3	15

QC Association Summary

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-88029-1

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Metals

Pre Prep Batch: 589639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	Filter to Air	
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	Filter to Air	
320-88029-5	GILBANEPM041222-1900	Total/NA	Air	Filter to Air	
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	Filter to Air	
MB 320-589639/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-589639/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-589639/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	
Prep Batch: 589655					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	3050B	589639
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	3050B	589639
000 00000 5		T + 1/N A	A	00500	500000

320-88029-5	GILBANEPM041222-1900	Total/NA	Air	3050B	589639
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	3050B	589639
MB 320-589639/1-B	Method Blank	Total/NA	Air	3050B	589639
LCS 320-589639/2-B	Lab Control Sample	Total/NA	Air	3050B	589639
LCSD 320-589639/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	589639

Analysis Batch: 589954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	6020	589655
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	6020	589655
320-88029-5	GILBANEPM041222-1900	Total/NA	Air	6020	589655
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	6020	589655
MB 320-589639/1-B	Method Blank	Total/NA	Air	6020	589655
LCS 320-589639/2-B	Lab Control Sample	Total/NA	Air	6020	589655
LCSD 320-589639/3-B	Lab Control Sample Dup	Total/NA	Air	6020	589655

General Chemistry

Pre Prep Batch: 588931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-2	GILBANETSP041222-1898	Total/NA	Air	Filter to Air	·
320-88029-4	GILBANETSP041222-1899	Total/NA	Air	Filter to Air	
320-88029-6	GILBANETSP041222-1900	Total/NA	Air	Filter to Air	
320-88029-8	GILBANETSP041222-1901	Total/NA	Air	Filter to Air	

Analysis Batch: 590258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	PM10	
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	PM10	
320-88029-5	GILBANEPM041222-1900	Total/NA	Air	PM10	
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	PM10	

Analysis Batch: 590259

Lab Sample ID 320-88029-2	Client Sample ID GILBANETSP041222-1898	Prep Type Total/NA	Matrix	Method 40CFR50 App B	Prep Batch 588931
320-88029-4	GILBANETSP041222-1899	Total/NA	Air	40CFR50 App B	588931
320-88029-6	GILBANETSP041222-1900	Total/NA	Air	40CFR50 App B	588931
320-88029-8	GILBANETSP041222-1901	Total/NA	Air	40CFR50 App B	588931

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

Job ID: 320-88029-1

Client Sample ID: GILBANEPM041222-1898 Date Collected: 05/12/22 14:19 Date Received: 05/18/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			589954	05/23/22 16:27	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0053 g	590258	05/19/22 09:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1898 Date Collected: 05/12/22 14:19 Date Received: 05/18/22 10:00

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			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1899 Date Collected: 05/12/22 14:09 Date Received: 05/18/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared	A	1
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
					Sample					
Total/NA	Analysis	6020		1			589954	05/23/22 16:30	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0101 g	590258	05/19/22 09:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1899 Date Collected: 05/12/22 14:09 Date Received: 05/18/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1900 Date Collected: 05/17/22 06:48 Date Received: 05/18/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			589954	05/23/22 16:34	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0438 g	590258	05/19/22 09:15	JMD	TAL SAC

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Lab Sample ID: 320-88029-3 Matrix: Air

Lab Sample ID: 320-88029-4

Lab Sample ID: 320-88029-5

Matrix: Air

Matrix: Air

Matrix: Air

Client Sample ID: GILBANETSP041222-1900 Date Collected: 05/17/22 06:48 Date Received: 05/18/22 10:00

Ргер Туре	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			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1901 Date Collected: 05/17/22 06:37 Date Received: 05/18/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			589954	05/23/22 16:37	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0514 g	590258	05/19/22 09:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1901 Date Collected: 05/17/22 06:37 Date Received: 05/18/22 10:00

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Laboratory References:

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

Job ID: 320-88029-1

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-88029-6

Lab Sample ID: 320-88029-7

Lab Sample ID: 320-88029-8

1 2 3 4 5 6 7

Accreditation/Certification Summary

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

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

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

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9-1	
	5
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	9
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Metals (ICP/MS)		
	SW846	TAL SAC
Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
Particulate Matter	40CFR50J	TAL SAC
Preparation, Metals	SW846	TAL SAC
Filter to Air volume ratio	None	TAL SAC
nces:		
- 	articulate Matter reparation, Metals liter to Air volume ratio	articulate Matter 40CFR50J reparation, Metals SW846 ilter to Air volume ratio None

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: 320-88029-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88029-1	GILBANEPM041222-1898	Air	05/12/22 14:19	05/18/22 10:00
320-88029-2	GILBANETSP041222-1898	Air	05/12/22 14:19	05/18/22 10:00
320-88029-3	GILBANEPM041222-1899	Air	05/12/22 14:09	05/18/22 10:00
320-88029-4	GILBANETSP041222-1899	Air	05/12/22 14:09	05/18/22 10:00
320-88029-5	GILBANEPM041222-1900	Air	05/17/22 06:48	05/18/22 10:00
320-88029-6	GILBANETSP041222-1900	Air	05/17/22 06:48	05/18/22 10:00
320-88029-7	GILBANEPM041222-1901	Air	05/17/22 06:37	05/18/22 10:00
320-88029-8	GILBANETSP041222-1901	Air	05/17/22 06:37	05/18/22 10:00

RE	CHAIN-OF-CUSTODY RECORD		Gilba Brett 2300 bwon	Gilbane Federal Brett Womack 2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com	t, Suite 1 s.com	050, C	Conco	rd, CA 94	520		COC # KT051722AIR	Т05172	2AIR			Gilbane	
Proje	Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	pyard, P	arcel E RA Ph	ase 2		abor	atory:	EUROFIN	IS ENVIRO	NMENT TE	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	CALIFORN	IIA, LLC (_	Event: Pa	arcel E Phase 2 Air	
Proje	Project Number: J310000400					POG								T	Aonitorin	Monitoring May 2022	
WBS	WBS Code: J310000400-016					Ship											
Com	Comments:					-					Code Matrix			F			
						-					A Air						
										-	ø	Ð					
											1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None	Degrees C					
_	320-88029 Chain of Custody	ustody					n) ul		· · · · · · ·								
Equi	Equipment:				M teaT lesitylenA	010500 - Air PM10 9200 - Air TSP	SW6020 - Air Pb N										
	Event: Parcel E Phase 2 Air Monitoring May 2022	lonitoring	May 2022			-	-										
	Sample ID	Matrix	Date	Time	Samp Init.						Location ID	Sample Tvpe			Cooler	Comments	
-	GILBANEPM041222-1898	A	05/12/2022	1419	КŢ	×	×				AMSE1	N2	0.00		-	VOLUME: 533.96 (M3)	
2	GILBANETSP041222-1898	4	05/12/2022	1419	КŢ	×					AMSE1	N2	0.00	0.00	-	VOLUME: 508.92 (M3)	
	GILBANEPM041222-1899	A	05/12/2022	1409	Ā	×	×				AMSE2	N2	0.00	0.00	+	VOLUME0: 533.34 (M3)	
	GILBANETSP041222-1899	4	05/12/2022	1409	Ā	×					AMSE2	N2	0.00	0.00	-	VOLUME: 532.62 (M3)	
	GILBANEPM041222-1900	< -	05/17/2022	0648	Ā	×	×				AMSE1	ž	0.00	0.00	-	VOLUME: 1733.43 (M3)	
	GILBANETSP041222-1900	< .	05/17/2022	0648	+	×					AMSE1	ź	0.00	0.00	-	VOLUME: 1653.65 (M3)	
~ 0	GILBANEPM041222-1901 GILBANETSP041222-1901	< <	05/17/2022	0637	+	×	×				AMSE2	ź	0.00	0.00	-	VOLUME: 1723.16 (M3)	
_	01-10-10-10-10-10-10-10-10-10-10-10-10-1	2	7707//1/c0	Ub3/	z	×		+			AMSEZ	ž	0.00	0.00	-	VOLUME: 1723.64 (M3)	
10					T	+-											20
Turn	Turnaround Time: 5 days																\$
	re)	-	Date	Time	Received by: (Sig	by: (S	igna	jnature)			Date Time	Shipping Date / Carrier / Airbill Number	Date / Cal	rrier / Air	bill Num	lber	
		5	17/22	ller	1					5/11/	1	Shipping D	ate: 5/17/	2022/Fe	dEx 776	Shipping Date: 5/17/2022 / FedEx 7768 6833 0415	
-									840;	5-18.21							
												Received	by Labor	atory: (Si	gnature,	Received by Laboratory: (Signature, Date, Time) & condition	
Gilban∈ May 17	Gitbane. Navy_COC_Field May 17, 2022															Page 1 of 1	
										1	1	1					
										3 4	1 2	9	3	7		- 2 3 4	1

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 88029 List Number: 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

List Source: Eurofins Sacramento

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-88125-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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



Authorized for release by: 5/27/2022 6:13:22 PM



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.

..... Links **Review your project** results through EOL Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

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Definitions/Glossary

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

Job ID: 320-88125-1

Glossary		 3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	 3
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	5
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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	13 14
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	

Job ID: 320-88125-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-88125-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/20/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.6° C.

Metals

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

Detection Summary

Client Projec

Clier

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Client: GES-AIS, LLC Project/Site: Hunters Point, Parc	el E, Phase 2	2			,		Job ID: 3	20-88125-1
Client Sample ID: GILBAI	NEPM0412	22-1902				Lab Sa	mple ID: 32	0-88125-1
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	0.037		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0050		0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	36		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAI	NETSP041	222-1902				Lab Sa	mple ID: 32	0-88125-2
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	51.5551		0.3015	0.3015	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GILBAI	NEPM0412	22-1903				Lab Sa	mple ID: 32	0-88125-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0036		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	0.0069		0.00070	0.000098	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: GILBAI	NETSP041	222-1903				Lab Sa	mple ID: 32	0-88125-4
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	58.5352		0.2884	0.2884	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GILBAI	NEPM0412	22-1904				Lab Sa	mple ID: 32	0-88125-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0029		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.092		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0081		0.00069	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	39		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAI	NETSP041	222-1904				Lab Sa	mple ID: 32	0-88125-6
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	49.0278		0.3000	0.3000	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GILBAI	NEPM0412	22-1905				Lab Sa	mple ID: 32	0-88125-7
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0022		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0052		0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	32		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAI	NETSP041	222-1905				Lab Sa	mple ID: 32	0-88125-8
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	48.6524		0.2886		ug/m3 (Air)	1	40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

			Jailipie	Negui	ເວ				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	, Phase 2	2	•					Job ID: 320-8	38125-1
Client Sample ID: GILBANE Date Collected: 05/18/22 06:42 Date Received: 05/20/22 10:00 Sample Container: Folder/Filter	PM0412	22-1902				L	₋ab Sample		3 125-1 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0018		0.00069		ug/m3 (Air)		05/26/22 08:15	05/26/22 10:05	1
Copper	0.037		0.0014		ug/m3 (Air)			05/26/22 10:05	1
Manganese	0.0050		0.00069	0.000097	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:05	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	36		0.29	0.29	ug/m3			05/23/22 10:30	1
Client Sample ID: GILBANE	FSP041	222-1902				L	ab Sample	D: 320-88	3125-2
Date Collected: 05/18/22 06:42									trix: Air
Date Received: 05/20/22 10:00									
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	51.5551		0.3015	0.3015	ug/m3 (Air)			05/23/22 10:30	1
Client Sample ID: GILBANE Date Collected: 05/18/22 06:31 Date Received: 05/20/22 10:00 Sample Container: Folder/Filter	PM0412	22-1903				L	_ab Sample		3125-3 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036		0.00070		ug/m3 (Air)		05/26/22 08:15	05/26/22 10:21	1
Copper Manganese	0.016 0.0069		0.0014 0.00070		ug/m3 (Air) ug/m3 (Air)			05/26/22 10:21 05/26/22 10:21	1
	0.0005		0.00070	0.0000000	ug/mo (/ m)		00/20/22 00.10	00/20/22 10.21	
General Chemistry									
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35		0.29	0.29	ug/m3			05/23/22 10:30	1
Client Sample ID: GILBANE	FSP041	222-1903				L	_ab Sample	e ID: 320-88	3125-4
Date Collected: 05/18/22 06:31 Date Received: 05/20/22 10:00								Mat	trix: Air
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.5352		0.2884	0.2884	ug/m3 (Air)	_		05/23/22 10:30	1
Client Sample ID: GILBANE Date Collected: 05/19/22 06:37 Date Received: 05/20/22 10:00 Sample Container: Folder/Filter	PM0412	22-1904				L	₋ab Sample		8125-5 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029		0.00069	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:24	1
Copper	0.092		0.0014		ug/m3 (Air)			05/26/22 10:24	1
Manganese	0.0081		0.00069	0.000096	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:24	1
								Eurofins Sacr	amento

Client Sample Results

5/27/2022

		Client S	Sample	Resul	ts				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel I	E, Phase 2	2						Job ID: 320-8	88125-
Client Sample ID: GILBANE Date Collected: 05/19/22 06:37 Date Received: 05/20/22 10:00 Sample Container: Folder/Filter	PM0412	22-1904				L	ab Sample	e ID: 320-88 Mat	8125-4 rix: Ai
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10	39		0.29	0.29	ug/m3			05/23/22 10:30	
Client Sample ID: GILBANE Date Collected: 05/19/22 06:37 Date Received: 05/20/22 10:00 Sample Container: Folder/Filter	TSP041	222-1904				L	ab Sample	e ID: 320-88 Mat	8125-6 rix: Ai
General Chemistry	D 14	0	RL		11	-	Burnard	•	D'I E -
Analyte	49.0278	Qualifier	0.3000		Unit ug/m3 (Air)		Prepared	Analyzed 05/23/22 10:30	Dil Fa
Date Received: 05/20/22 10:00 Sample Container: Folder/Filter									
Method: 6020 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	МП	Unit	D	Prepared	Analyzed	Dil Fa
Lead	0.0022		0.00069		ug/m3 (Air)		<u> </u>	05/26/22 10:28	
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:28	
Manganese	0.0052		0.00069	0.000097	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:28	
 General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10	32		0.29	0.29	ug/m3			05/23/22 10:30	
Client Sample ID: GILBANE Date Collected: 05/19/22 06:26 Date Received: 05/20/22 10:00 Sample Container: Folder/Filter	TSP041	222-1905				L	ab Sample	e ID: 320-88 Mat	8 125- rix: Ai
General Chemistry	Dec. 14	Qualifier	ы	ים	Unit	~	Bronarad	Analyzed	
Analyte Total Suspended Particulates	48.6524	Qualifier	RL 0.2886		Unit ug/m3 (Air)	D	Prepared	Analyzed 05/23/22 10:30	Dil Fa
TOTAL SUSPENDED PARTICILIATES	40.0024		0.2000	U.2000	uu/IIIJ (AII)			UJIZJIZZ 10.30	

Eurofins Sacramento

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-59057 Matrix: Air Analysis Batch: 590913	3/1- B							Clie		ole ID: Method Prep Type: To Prep Batch:	otal/NA
	MB	MB									
Analyte	Result	Qualifier	RL	l l	MDL U	nit	D	Р	repared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00	0018 ug	g/m3 (Air)	_	05/2	26/22 08:15	05/26/22 09:55	1
Copper	ND		0.0024	0.00)018 ug	g/m3 (Air)		05/2	26/22 08:15	05/26/22 09:55	1
Manganese	ND		0.0012	0.00	0017 ug	g/m3 (Air)		05/2	26/22 08:15	05/26/22 09:55	1
Lab Sample ID: LCS 320-5905 Matrix: Air Analysis Batch: 590913	73/2-B					Cli	ent	Sa		Lab Control S Prep Type: To Prep Batch:	otal/NA
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifi	ier Unit		D	%Rec	Limits	
Lead			0.240	0.248		ug/m3	(Air)		103	86 - 111	
Copper			0.240	0.229		ug/m3	(Air)		95	85 - 110	
Manganese			0.240	0.239		ug/m3	(Air)		100	88 - 110	
Lab Sample ID: LCSD 320-590	573/3-B					Client S	am	ple	ID: Lab	Control Samp	ole Dup

Lab Sample ID: LCSD 320-590573/3-B Matrix: Air Analysis Batch: 590913

	Spike	LCSD	LCSD				%Rec		RPD	ļ
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Lead	0.240	0.246		ug/m3 (Air)	_	103	86 - 111	1	15	
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110	1	15	
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110	1	15	

Job ID: 320-88125-1

Prep Type: Total/NA

Prep Batch: 590589

QC Association Summary

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-88125-1

6 7 8

11 12

13

Metals

Pre Prep Batch: 590573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	Filter to Air	
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	Filter to Air	
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	Filter to Air	
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	Filter to Air	
MB 320-590573/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-590573/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-590573/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	
Prep Batch: 590589					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	3050B	590573
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	3050B	590573

020 00120 0		10tal/10/t	7.01	CCCCD	000010
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	3050B	590573
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	3050B	590573
MB 320-590573/1-B	Method Blank	Total/NA	Air	3050B	590573
LCS 320-590573/2-B	Lab Control Sample	Total/NA	Air	3050B	590573
LCSD 320-590573/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	590573

Analysis Batch: 590913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	6020	590589
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	6020	590589
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	6020	590589
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	6020	590589
MB 320-590573/1-B	Method Blank	Total/NA	Air	6020	590589
LCS 320-590573/2-B	Lab Control Sample	Total/NA	Air	6020	590589
LCSD 320-590573/3-B	Lab Control Sample Dup	Total/NA	Air	6020	590589

General Chemistry

Pre Prep Batch: 591174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-2	GILBANETSP041222-1902	Total/NA	Air	Filter to Air	
320-88125-4	GILBANETSP041222-1903	Total/NA	Air	Filter to Air	
320-88125-6	GILBANETSP041222-1904	Total/NA	Air	Filter to Air	
320-88125-8	GILBANETSP041222-1905	Total/NA	Air	Filter to Air	

Analysis Batch: 591175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	PM10	
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	PM10	
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	PM10	
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	PM10	

Analysis Batch: 591176

Lab Sample ID 320-88125-2	Client Sample ID GILBANETSP041222-1902	Prep Type Total/NA	Air	Method 40CFR50 App B	Prep Batch 591174
320-88125-4	GILBANETSP041222-1903	Total/NA	Air	40CFR50 App B	591174
320-88125-6	GILBANETSP041222-1904	Total/NA	Air	40CFR50 App B	591174
320-88125-8	GILBANETSP041222-1905	Total/NA	Air	40CFR50 App B	591174

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

Client Sample ID: GILBANEPM041222-1902 Date Collected: 05/18/22 06:42 Date Received: 05/20/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:05	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0618 g	591175	05/23/22 10:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1902 Date Collected: 05/18/22 06:42 Date Received: 05/20/22 10:00

Ргер Туре	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			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1903 Date Collected: 05/18/22 06:31 Date Received: 05/20/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:21	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0595 g	591175	05/23/22 10:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1903 Date Collected: 05/18/22 06:31 Date Received: 05/20/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1904 Date Collected: 05/19/22 06:37 Date Received: 05/20/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air			· · · · · ·		590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:24	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0673 g	591175	05/23/22 10:30	JMD	TAL SAC

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Eurofins Sacramento

Job ID: 320-88125-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-88125-1

Lab Sample ID: 320-88125-2

Lab Sample ID: 320-88125-3

Lab Sample ID: 320-88125-4

Lab Sample ID: 320-88125-5

Client Sample ID: GILBANETSP041222-1904 Date Collected: 05/19/22 06:37 Date Received: 05/20/22 10:00

Ргер Туре	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			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1905 Date Collected: 05/19/22 06:26 Date Received: 05/20/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:28	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0552 g	591175	05/23/22 10:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1905 Date Collected: 05/19/22 06:26 Date Received: 05/20/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Laboratory References:

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

Job ID: 320-88125-1

Lab Sample ID: 320-88125-7

Lab Sample ID: 320-88125-8

Lab Sample ID: 320-88125-6 Matrix: Air

Matrix: Air

Matrix: Air

Accreditation/Certification Summary

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

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

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

		Laboratory	
Metals (ICP/MS)	SW846	TAL SAC	•
Suspended Particulate Matter in Ambient Air	EPA	TAL SAC	
Particulate Matter	40CFR50J	TAL SAC	
Preparation, Metals	SW846	TAL SAC	
Filter to Air volume ratio	None	TAL SAC	
nces:			
F	Particulate Matter Preparation, Metals Filter to Air volume ratio	Particulate Matter 40CFR50J Preparation, Metals SW846 Filter to Air volume ratio None	Particulate Matter 40CFR50J TAL SAC Preparation, Metals SW846 TAL SAC Filter to Air volume ratio None TAL SAC

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88125-1	GILBANEPM041222-1902	Air	05/18/22 06:42	05/20/22 10:00
320-88125-2	GILBANETSP041222-1902	Air	05/18/22 06:42	05/20/22 10:00
320-88125-3	GILBANEPM041222-1903	Air	05/18/22 06:31	05/20/22 10:00
320-88125-4	GILBANETSP041222-1903	Air	05/18/22 06:31	05/20/22 10:00
320-88125-5	GILBANEPM041222-1904	Air	05/19/22 06:37	05/20/22 10:00
320-88125-6	GILBANETSP041222-1904	Air	05/19/22 06:37	05/20/22 10:00
320-88125-7	GILBANEPM041222-1905	Air	05/19/22 06:26	05/20/22 10:00
320-88125-8	GILBANETSP041222-1905	Air	05/19/22 06:26	05/20/22 10:00

CHAIN-OF-CUSTODY RECORD		Gilba Brett 2300 bwo	Gilbane Federal Brett Womack 2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com	ad, Suite ais.com	105(, Cor	icord,	CA 945	20			COC # K	KT051922AIR	22AIR			Cilbane
Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	vard, P	arcel E RA PI	ase 2		Lat	orato	N: EL	IROFIN	S ENVIE	ONME	NT TESTIN	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	CALIFORM	VIA, LLC	(EETN	Event:	Parcel E Phase 2 Air
Project Number: J310000400					Pod	OT.										Monito	Monitoring May 2022
WBS Code: J310000400-016					Ship	0.1											
Comments:				poq			na					Code Matrix A Air Code Container/Preservative 1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None	e Degrees C				*
Equipment:				I Analytical Test Met	CAAIR - Air PM10	92T 1iA - 0020N	SW6020 - Air Pb Mn						320	3-88125	Chain of	320-88125 Chain of Custody	
Event: Parcel E Phase 2 Air Monitoring May 2022	nitoring	May 2022			-	-	-										
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	-	Depth (ft bgs) Top - Bottom	Cooler	Comments
1 GILBANEPM041222-1902	A	05/18/2022	0642	КŢ	×		×					AMSE1	ź	0.00	0.00	-	NOLUI
2 GILBANETSP041222-1902	A	05/18/2022	0642	КŢ		×						AMSE1	ž	0.00	0.00	-	VOLUME: 1658.42 (M3)
3 GILBANEPM041222-1903	<	05/18/2022	0631	¥	×		×					AMSE2	ž	0.00	00.0	-	VOLUME: 1718.87 (M3)
	<	05/18/2022	0631	¥		×						AMSE2	ž	0.00	0.00	-	VOLUME: 1734.00 (M3)
	<	05/19/2022	0637	¥	×		×					AMSE1	ž	0.00	0.00	٢	VOLUME: 1741.13 (M3)
	<	05/19/2022	0637	¥		×	-					AMSE1	۲	0.00	0.00	-	VOLUME: 1666.40 (M3)
	< .	05/19/2022	0626	Ł	×		×					AMSE2	ź	0.00		-	VOLUME: 1728.36 (M3)
8 GILBANETSP041222-1905	<	05/19/2022	0626	5		×	+					AMSE2	ž	0.00	0.00	-	VOLUME: 1732.70 (M3)
10																	R
Turnaround Time: 5 days	1												-				
(aur	-	Date	Time	Received by: (Signature)	yd by	(Sig	natur	(ə			Date	Time	Shipping Date / Carrier / Airhill Number	Date / C	arrier / A	Virbill Nu	mber
	2	22 6)	1	Fiel 60							2/19/2	(p)	Shipping [)ate: 5/1	9/2022/1	FedEx 77	Shipping Date: 5/19/2022/ FedEx 7768 9600 6191
										<u>v</u>	5-20-24	CC01 T					
													Vecelved	by Labo	ratory:	Signatur	received by Laboratory: (Signature, Date, Time) & condition
GES.Navy_COC_Field May 19, 2022														191	2.9		Page 1 of 1
											1:		9	8		5	1 2 3 4
										4	3) 1					

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 88125 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	1256035
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	

Job Number: 320-88125-1

List Source: Eurofins Sacramento

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-88295-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn:

Authorized for release by: 6/2/2022 5:27:40 PM

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.

..... Links **Review your project** results through EOL Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

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Definitions/Glossary

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

3 4

5

Qualifiers

Metals		
Qualifier	Qualifier Description	
В	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.
¤	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

Job ID: 320-88295-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-88295-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/25/2022 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 17.6° C.

Metals

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

Detection Summary

		20100						~~~~~
Client: GES-AIS, LLC Project/Site: Hunters Point, Parce	I E. Phase 2	2					Job ID: 3	20-88295-
Client Sample ID: GILBAN						Lab Sa	mple ID: 32	0-88295-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0069		0.0022	0.00032	ug/m3 (Air)	1	6020	Total/NA
Copper	0.038		0.0043	0.00032	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.022	В	0.0022	0.00030	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	56		0.90	0.90	ug/m3	1	PM10	Total/NA
lient Sample ID: GILBAN	ETSP041	222-1906				Lab Sa	mple ID: 32	0-88295-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	96.6364		1.0369	1.0369	ug/m3 (Air)	1	40CFR50 App B	Total/NA
lient Sample ID: GILBAN	EPM0412	22-1907				Lab Sa	mple ID: 32	0-88295
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.013		0.0022	0.00032	ug/m3 (Air)	1	6020	Total/NA
Copper	0.029		0.0043	0.00032	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.023	В	0.0022	0.00030	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	55		0.90	0.90	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAN	ETSP041	222-1907				Lab Sa	mple ID: 32	0-88295-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	96.5022		0.8969	0.8969	ug/m3 (Air)	1	40CFR50 App B	Total/NA
lient Sample ID: GILBAN	EPM0426	22-1908				Lab Sa	mple ID: 32	0-88295-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0048		0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.026		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0073	В	0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	42		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GILBAN	ETSP042	622-1908				Lab Sa	mple ID: 32	0-88295-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	59.0590	0.3051	0.3051	ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1909

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030		0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.015		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0075	В	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	38		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1909 Lab Sample ID: 320-88295-8

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	61.6679	0.2914	0.2914 ug/m3 (Air)	1	40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 320-88295-7

Project/Sile: Hunters Point, Parcel E, Phase 2 Client Sample ID: GILBANEPM041222-1906 Date Collectod: 05//322 10:30 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte 0.0069 Copper 0.038 Manganese 0.022 Ceneral Chemistry Analyte Result Qualifier Particulate Matter as PM 10 56 Canalyzed ID: GILBANETSP041222-1906 Date Received: 05//322 13:29 Canalyzed ID: GILBANETSP041222-1906 Date Received: 05//322 13:29 Canalyzed ID: GILBANETSP041222-1906 Date Received: 05//322 13:29 Canalyzed ID: GILBANETSP041222-1906 Date Received: 05//322 13:20 Canalyzed ID: GILBANETSP041222-1907 Date Received: 05//322 13:31 Sample Container: Folder/Filter Client Sample ID: GILBANEPM041222-1907 Date Received: 05//322 13:30 Sample Container: Folder/Filter Mathod: 6020 - Matals (ICP/MS) Analyzed 0.017 Mathod: 6020 - Matals (ICP/MS) Analyte Result Qualifier Rt Muth Manganese </th <th></th> <th></th> <th>Client</th> <th>Sample</th> <th>resui</th> <th>ເວ</th> <th></th> <th></th> <th></th> <th></th>			Client	Sample	resui	ເວ				
Date Collected: 05/19/22 14:21 Matrix: All Date Received: 05/25/22 10:30 Sample Container: Folder/Filter Result Qualifier Rt. MDL Unit D Prepared Analyzed Dit Face Cooper 0.0059 0.0022 0.00030 ugm3 (Ar) D 963122 08:00 063122 13:29 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 053122 13:39 05312	Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	, Phase 2	2						Job ID: 320-8	8295-1
Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL MDL Unit D Prepared 053122 06 00 Analyzed 053122 1020 00 Dill Fa Copper 0.039 0.0043 0.00032 ugmin (ivi) 053122 06 00 053122 1020 Dill Fa General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dill Fa Cilient Sample ID: GILEBANETSP041222-1906 Lab Sample ID: 320-88295- Date Collected: 05/19/22 14:21 Matrix: A General Chemistry Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Gate Collected: 05/19/22 14:21 0.033 0.0022 0.0032 ugmin3 (ivi) D Prepared Analyzed Dil Fa Cale Collected: 05/19/22 14:21 0.033 0.0022 0.0032 ugmin3 (ivi) D Prepared Analyzed Dil Fa Cale Collected: 05/19/22 14:11 Sample Container: Folder/Filter Matrix: A Dil Fa	Client Sample ID: GILBANEF Date Collected: 05/19/22 14:21						l	_ab Sample		
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Total Suspended Particulates 96.5022 0.8969 0.8969 ug/m3 (Air) 05/26/22 15:19 Client Sample ID: GILBANEPM042622-1908 Lab Sample ID: 320-88295- Matrix: Ai Date Collected: 05/24/22 06:46 Matrix: Ai Date Received: 05/25/22 10:30 Sample Container: Folder/Filter Matrix: Ai Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa Lead 0.0048 0.0010 0.0010 ug/m3 (Air) D Si31/22 06:00 05/31/22 13:41 Dil Fa	-	_ .	0			11.27	-	D	• •	e
Client Sample ID: GILBANEPM042622-1908 Lab Sample ID: 320-88295- Date Collected: 05/24/22 06:46 Matrix: Ai Date Received: 05/25/22 10:30 Matrix: Ai Sample Container: Folder/Filter Matrix: Ai Method: 6020 - Metals (ICP/MS) Malyte Analyte Result Qualifier Lead 0.0048 0.00070 0.0014 0.0010 ug/m3 (Air) 05/31/22 06:00 05/31/22 13:41	· · · · · · · · · · · · · · · · · · ·		Qualifier				_ <u>D</u>	Prepared		
Matrix: Ai Date Collected: 05/24/22 06:46 Date Received: 05/25/22 10:30 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL 0.0048 0.00070 0.0010 ug/m3 (Air) 05/31/22 06:00 05/31/22 13:41	Iotal Suspended Particulates	96.5022		0.8969	0.8969	ug/m3 (Air)			05/20/22 15:19	
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa Lead 0.0048 0.00070 0.00010 ug/m3 (Air) D O5/31/22 06:00 05/31/22 13:41 Dil Fa Copper 0.026 0.0014 0.0010 ug/m3 (Air) 05/31/22 06:00 05/31/22 13:41 Dil Fa	Date Collected: 05/24/22 06:46 Date Received: 05/25/22 10:30	PM0426	22-1908				L	_ab Sample		
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa Lead 0.0048 0.00070 0.00010 ug/m3 (Air) D O5/31/22 06:00 05/31/22 13:41 Dil Fa Copper 0.026 0.0014 0.0010 ug/m3 (Air) 05/31/22 06:00 05/31/22 13:41 Dil Fa	 Method: 6020 - Metals (ICP/MS)									
Copper 0.026 0.0014 0.00010 ug/m3 (Air) 05/31/22 06:00 05/31/22 13:41	Analyte	Result	Qualifier				D	· · · · · · · · · · · · · · · · · · ·		Dil Fa
		0.0048								
Manganese 0.0073 B 0.00070 0.000098 ug/m3 (Air) 05/31/22 06:00 05/31/22 13:41			_							1
	Manganese	0.0073	В	0.00070	0.000098	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:41	1

Client Sample Results

		Client S	Sample	Resul	ts				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel	E, Phase 2	2						Job ID: 320-8	8295-1
Client Sample ID: GILBANE Date Collected: 05/24/22 06:46 Date Received: 05/25/22 10:30 Sample Container: Folder/Filter		22-1908				L	ab Sample	e ID: 320-88 Mat	8 295-5 rix: Air
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	42		0.29	0.29	ug/m3			05/26/22 08:15	1
Client Sample ID: GILBANE Date Collected: 05/24/22 06:46 Date Received: 05/25/22 10:30 Sample Container: Folder/Filter		622-1908				L	ab Sample.	e ID: 320-88 Mat	8 295-6 rix: Air
General Chemistry						_	_ .		
Analyte Total Suspended Particulates	59.0590	Qualifier	RL 0.3051		Unit ug/m3 (Air)	<u>D</u>	Prepared	Analyzed 05/26/22 15:19	Dil Fac
Date Collected: 05/24/22 06:36 Date Received: 05/25/22 10:30 Sample Container: Folder/Filter								Mat	rix: Air
Method: 6020 - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030		0.00070	0.00010	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:45	1
Copper	0.015		0.0014		ug/m3 (Air)		05/31/22 06:00	05/31/22 13:45	1
Manganese	0.0075	В	0.00070	0.000098	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:45	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	38		0.29	0.29	ug/m3			05/26/22 08:15	1
Client Sample ID: GILBAN	ETSP042	622-1909				L	.ab Sample	e ID: 320-88	8295-8
Date Collected: 05/24/22 06:36 Date Received: 05/25/22 10:30 Sample Container: Folder/Filter								Mat	rix: Air
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

QC Sample Results

Job ID: 320-88295-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-5913 Matrix: Air Analysis Batch: 591672	367/1-B								Clie		le ID: Meth Prep Type: Prep Batcl	Tot	al/NA
	MB	МВ											
Analyte		Qualifier	RL	М	DL	Unit		D	Pr	epared	Analyzed	I	Dil Fac
Lead	ND		0.0012	0.000	018	ug/m3	3 (Air)	_	05/3	1/22 06:00	05/31/22 13:	9	1
Manganese	0.000229	J	0.0012	0.000	017	ug/m3	3 (Air)		05/3	1/22 06:00	05/31/22 13:	19	1
Lab Sample ID: MB 320-5913	367/1-B								Clie	nt Samp	le ID: Meth	od I	Blank
Matrix: Air											Prep Type:	Tot	al/NA
Analysis Batch: 591951											Prep Batcl	n: 59	91419
-	MB	MB											
Analyte	Result	Qualifier	RL	М	DL	Unit		D	Pr	repared	Analyzed	I	Dil Fac
Copper	ND		0.0024	0.000	018	ug/m3	3 (Air)	_	05/3	1/22 06:00	06/01/22 13:4	14	1
Lab Sample ID: LCS 320-591	367/2-B						Clie	ent	Sar	nple ID:	Lab Contro	ol Sa	ample
Matrix: Air											Prep Type:		
Analysis Batch: 591672											Prep Batcl		
			Spike	LCS I	LCS						%Rec		
Analyte			Added	Result (Qual	lifier	Unit		D	%Rec	Limits		
Lead			0.240	0.253			ug/m3 (/	Air)		106	86 - 111		
Copper			0.240	0.235			ug/m3 (/	Air)		98	85 - 110		
Manganese			0.240	0.243			ug/m3 (/	Air)		101	88 - 110		
Lab Sample ID: LCSD 320-59	91367/3-B					C	lient Sa	am	ple	ID: Lab	Control Sa	nple	e Dup
Matrix: Air											Prep Type:	Tot	al/NA
Analysis Batch: 591672											Prep Batcl	n: 59	91419
			Spike	LCSD	LCS	D					%Rec		RPD
Analyte			Added	Result (Qual	lifier	Unit		D	%Rec	Limits F	PD	Limi
Lead			0.240	0.254			ug/m3 (/	Air)		106	86 - 111	0	1
Copper			0.240	0.229			ug/m3 (/	Air)		95	85 - 110	3	15
Manganese			0.240	0.234			ug/m3 (/	Air)		98	88 - 110	4	15

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Air

Air

Air

Air

Air

Air

Air

Matrix

Air

Air

Air

Air

Air

Air

Air

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

Client Sample ID

Method Blank

Lab Control Sample

Client Sample ID

Method Blank

Lab Control Sample

Lab Control Sample Dup

Lab Control Sample Dup

GILBANEPM041222-1906

GILBANEPM041222-1907

GILBANEPM042622-1908

GILBANEPM042622-1909

GILBANEPM041222-1906

GILBANEPM041222-1907

GILBANEPM042622-1908

GILBANEPM042622-1909

Metals

Lab Sample ID

320-88295-1

320-88295-3

320-88295-5

320-88295-7

MB 320-591367/1-B

LCS 320-591367/2-B

LCSD 320-591367/3-B

Prep Batch: 591419

Lab Sample ID

320-88295-1

320-88295-3

320-88295-5

320-88295-7

MB 320-591367/1-B

LCS 320-591367/2-B

LCSD 320-591367/3-B

Pre Prep Batch: 591367

Job ID: 320-88295-1

Prep Batch

Prep Batch

591367

591367

591367

591367

591367

591367

591367

Method

Filter to Air

Method

3050B

3050B

3050B

3050B

3050B

3050B

3050B

5 6 7

8

11 12

Analysis Batch: 591672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-1	GILBANEPM041222-1906	Total/NA	Air	6020	591419
320-88295-3	GILBANEPM041222-1907	Total/NA	Air	6020	591419
320-88295-5	GILBANEPM042622-1908	Total/NA	Air	6020	591419
320-88295-7	GILBANEPM042622-1909	Total/NA	Air	6020	591419
MB 320-591367/1-B	Method Blank	Total/NA	Air	6020	591419
LCS 320-591367/2-B	Lab Control Sample	Total/NA	Air	6020	591419
LCSD 320-591367/3-B	Lab Control Sample Dup	Total/NA	Air	6020	591419

Analysis Batch: 591951

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 320-591367/1-B	Method Blank	Total/NA	Air	6020	591419

General Chemistry

Pre Prep Batch: 591174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-2	GILBANETSP041222-1906	Total/NA	Air	Filter to Air	
320-88295-4	GILBANETSP041222-1907	Total/NA	Air	Filter to Air	
320-88295-6	GILBANETSP042622-1908	Total/NA	Air	Filter to Air	
320-88295-8	GILBANETSP042622-1909	Total/NA	Air	Filter to Air	

Analysis Batch: 592291

Lab Sample ID 320-88295-1	Client Sample ID GILBANEPM041222-1906	Prep Type Total/NA	Matrix	PM10	Prep Batch
320-88295-3	GILBANEPM041222-1907	Total/NA	Air	PM10	
320-88295-5	GILBANEPM042622-1908	Total/NA	Air	PM10	
320-88295-7	GILBANEPM042622-1909	Total/NA	Air	PM10	

Analysis Batch: 592292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-2	GILBANETSP041222-1906	Total/NA	Air	40CFR50 App B	591174

QC Association Summary

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

Job ID: 320-88295-1

5

8 9

General Chemistry (Continued)

Analysis Batch: 592292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-4	GILBANETSP041222-1907	Total/NA	Air	40CFR50 App B	591174
320-88295-6	GILBANETSP042622-1908	Total/NA	Air	40CFR50 App B	591174
320-88295-8	GILBANETSP042622-1909	Total/NA	Air	40CFR50 App B	591174

Job ID: 320-88295-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-88295-1

Lab Sample ID: 320-88295-3

Lab Sample ID: 320-88295-4

Lab Sample ID: 320-88295-5

Client Sample ID: GILBANEPM041222-1906 Date Collected: 05/19/22 14:21 Date Received: 05/25/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:29	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0310 g	592291	05/26/22 08:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1906 Date Collected: 05/19/22 14:21 Date Received: 05/25/22 10:30

Prep Type Total/NA Total/NA	Batch Type Analysis Pre Prep	Batch Method 40CFR50 App B Filter to Air	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 592292 591174			Lab TAL SAC TAL SAC	_
-----------------------------------	---	---	-----	---------------	-------------------	-----------------	-------------------------------------	--	--	---------------------------	---

Client Sample ID: GILBANEPM041222-1907 Date Collected: 05/19/22 14:11 Date Received: 05/25/22 10:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:38	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0304 g	592291	05/26/22 08:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1907 Date Collected: 05/19/22 14:11 Date Received: 05/25/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			592292	05/26/22 15:19	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1908 Date Collected: 05/24/22 06:46 Date Received: 05/25/22 10:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:41	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0726 g	592291	05/26/22 08:15	JMD	TAL SAC

Eurofins Sacramento

Page 11 of 17

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

Client Sample ID: GILBANETSP042622-1908 Date Collected: 05/24/22 06:46 Date Received: 05/25/22 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			592292	05/26/22 15:19	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1909 Date Collected: 05/24/22 06:36 Date Received: 05/25/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:45	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0659 g	592291	05/26/22 08:15	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1909 Date Collected: 05/24/22 06:36 Date Received: 05/25/22 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			592292	05/26/22 15:19	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Laboratory References:

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

Job ID: 320-88295-1

Matrix: Air

Matrix: Air

Lab Sample ID: 320-88295-6 Matrix: Air

Lab Sample ID: 320-88295-7

Lab Sample ID: 320-88295-8

Accreditation/Certification Summary

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

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

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

	5
	8
	9
1	1
	3

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

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:	320-88295-1
000	ID.	020-00200-1

5
8
9
12
13

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88295-1	GILBANEPM041222-1906	Air	05/19/22 14:21	05/25/22 10:30
320-88295-2	GILBANETSP041222-1906	Air	05/19/22 14:21	05/25/22 10:30
320-88295-3	GILBANEPM041222-1907	Air	05/19/22 14:11	05/25/22 10:30
320-88295-4	GILBANETSP041222-1907	Air	05/19/22 14:11	05/25/22 10:30
320-88295-5	GILBANEPM042622-1908	Air	05/24/22 06:46	05/25/22 10:30
320-88295-6	GILBANETSP042622-1908	Air	05/24/22 06:46	05/25/22 10:30
320-88295-7	GILBANEPM042622-1909	Air	05/24/22 06:36	05/25/22 10:30
320-88295-8	GILBANETSP042622-1909	Air	05/24/22 06:36	05/25/22 10:30

|--|

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 88295 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 320-88295-1

List Source: Eurofins Sacramento

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-88398-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn:

..... Links

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Authorized for release by: 6/6/2022 4:12:14 PM

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: 320-88398-1

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Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Job ID: 320-88398-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-88398-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/27/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.1° C.

Metals

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

Detection Summary

RL

0.00068

0.0014

0.00068

0.29

MDL Unit

0.00010 ug/m3 (Air)

0.00010 ug/m3 (Air)

0.000096 ug/m3 (Air)

0.29 ug/m3

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

Client Sample ID: GILBANEPM042622-1910

Manganese	0.0093
Particulate Matter as PM 10	37

Analyte

Copper

Lead

Client Sample ID: GILBANETSP042622-1910

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method
Total Suspended Particulates	48.9565	0.2992	0.2992 ug/m3 (Air)	1	40CFR50

Result Qualifier

0.0039

0.19

Client Sample ID: GILBANEPM042622-1911

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Ргер Туре
Lead	0.0032		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.031		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0073		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: GILBANETSP042622-1911

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Total Suspended Particulates	40.3829		0.2864	0.2864	ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1912

Analyte	Result Qualif	fier RL	MDL	Unit	Dil Fac	DN	lethod	Р гер Туре
Lead	0.010	0.00070	0.00010	ug/m3 (Air)	1	6	020	Total/NA
Copper	0.12	0.0014	0.00010	ug/m3 (Air)	1	6	020	Total/NA
Manganese	0.034	0.00070	0.000097	ug/m3 (Air)	1	6	020	Total/NA
Particulate Matter as PM 10	86	0.29	0.29	ug/m3	1	P	PM10	Total/NA

Client Sample ID: GILBANETSP042622-1912

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	116.7067	0.3034	0.3034 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1913

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0063	0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.028	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	24	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1913 Lab Sample ID: 320-88398-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.6606		0.2902	0.2902	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 320-88398-1

Lab Sample ID: 320-88398-2

Lab Sample ID: 320-88398-3

Lab Sample ID: 320-88398-4

Lab Sample ID: 320-88398-5

Lab Sample ID: 320-88398-6

Lab Sample ID: 320-88398-7

40CFR50 App B Total/NA

Dil Fac D Method

1

1

1

1

6020

6020

6020

PM10

Job ID: 320-88398-1

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Client Sample ID: GILBANE Date Collected: 05/25/22 06:48 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter	PM0426	22-1910				L	.ab Sample	e ID: 320-88 Mat	398-1 rix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.00068		ug/m3 (Air)		06/02/22 08:53	06/02/22 15:07	1
Copper	0.19		0.0014		ug/m3 (Air)		06/02/22 08:53	06/02/22 15:07	1
Manganese	0.0093		0.00068	0.000096	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:07	
General Chemistry									
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10	37		0.29	0.29	ug/m3			05/31/22 08:00	
Client Sample ID: GILBANE Date Collected: 05/25/22 06:48 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter	rsp042	622-1910				L	ab Sample	e ID: 320-88 Mat	398-2 rix: Ai
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.9565		0.2992	0.2992	ug/m3 (Air)			05/31/22 08:00	
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Lead	0.0032		0.00069	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:16	
Copper	0.031		0.0014	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:16	
Manganese	0.0073		0.00069	0.000097	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:16	
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
				0.20	ug/m3			05/31/22 08:00	
Particulate Matter as PM 10	31		0.29	0.29	ag/mo			03/31/22 00.00	
Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40		622-1911	0.29	0.29	uginio	L	.ab Sample	e ID: 320-88	398-4
Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry	rsp042							e ID: 320-88 Mat	398-4 rix: Ai
Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte	rsp042 Result	622-1911 Qualifier	RL	RL	Unit	L	ab Sample	D: 320-88 Mat	398-4 rix: Ai
Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates	Result 40.3829	Qualifier		RL			Prepared	Analyzed 05/31/22 08:00	rix: Ai
Particulate Matter as PM 10 Client Sample ID: GILBANE Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte	Result 40.3829	Qualifier	RL	RL	Unit		Prepared	Analyzed 05/31/22 08:00 DI: 320-88	398-4 rix: Ai Dil Fac
Particulate Matter as PM 10 Client Sample ID: GILBANET Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANET Date Collected: 05/26/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	Result 40.3829 PM0426	Qualifier	RL 0.2864	RL 0.2864	Unit ug/m3 (Air)	Ē	Prepared ab Sample	Analyzed 05/31/22 08:00 DI: 320-88 Mat	2398-4 rix: Ai Dil Fa 398-4 rix: Ai
Particulate Matter as PM 10 Client Sample ID: GILBANET Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANET Date Collected: 05/26/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	Result 40.3829 PM0426 Result	Qualifier	RL 0.2864	RL 0.2864 MDL	Unit ug/m3 (Air)		Prepared _ab Sample	Analyzed 05/31/22 08:00 DI: 320-88 Mat	Dil Factoria Control C
Particulate Matter as PM 10 Client Sample ID: GILBANET Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANET Date Collected: 05/26/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	Result 40.3829 PM0426 Result 0.010	Qualifier	RL 0.2864 RL 0.00070	RL 0.2864 MDL 0.00010	Unit ug/m3 (Air)	Ē	Prepared .ab Sample Prepared 06/02/22 08:53	Analyzed 05/31/22 08:00 DI: 320-88 Mat	Dil Far 398-4 Dil Far 398-5 rix: Ai
Particulate Matter as PM 10 Client Sample ID: GILBANET Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GILBANET Date Collected: 05/26/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	Result 40.3829 PM0426 Result	Qualifier	RL 0.2864	RL 0.2864 0.00010 0.00010 0.00010	Unit ug/m3 (Air)	Ē	Prepared .ab Sample 06/02/22 08:53 06/02/22 08:53	Analyzed 05/31/22 08:00 DI: 320-88 Mat	Dil Factoria Contractoria Contr

Client Sample Results

Job ID: 320-88398-1

6/6/2022

Client: GES-AIS, LLC

		Client S	Sample	Resul	ts				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parce	E, Phase 2		•					Job ID: 320-8	8398-1
Client Sample ID: GILBAN Date Collected: 05/26/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter		22-1912				L	ab Sample.	e ID: 320-88 Mat	398-5 rix: Air
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	86		0.29	0.29	ug/m3			05/31/22 08:00	1
Client Sample ID: GILBAN Date Collected: 05/26/22 06:37 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter		622-1912				L	ab Sample.	e ID: 320-88 Mat	398-6 rix: Air
General Chemistry		0.115				_			
Analyte Total Suspended Particulates	116.7067	Qualifier	RL 0.3034		Unit ug/m3 (Air)	<u>D</u>	Prepared	Analyzed 05/31/22 08:00	Dil Fac
Date Collected: 05/26/22 06:27								Mat	rix: Air
Date Confected: 05/26/22 08:27 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter								Mat	rix: Air
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	Qualifier		MDI	11-14		Browned		
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte) Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead) Result 0.0063	Qualifier	0.00070	0.00010	ug/m3 (Air)	_ <u>D</u>	06/02/22 08:53	Analyzed 06/02/22 15:23	Dil Fac
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte) Result	Qualifier		0.00010 0.00010		_ <u>D</u>	06/02/22 08:53 06/02/22 08:53	Analyzed	Dil Fac
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead Copper Manganese) Result 0.0063 0.028	Qualifier	0.00070 0.0014	0.00010 0.00010	ug/m3 (Air) ug/m3 (Air)	_ <u>D</u>	06/02/22 08:53 06/02/22 08:53	Analyzed 06/02/22 15:23 06/02/22 15:23	Dil Fac 1 1
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead Copper) Result 0.0063 0.028 0.014	Qualifier	0.00070 0.0014	0.00010 0.00010 0.000098	ug/m3 (Air) ug/m3 (Air)	_ <u>D</u> 	06/02/22 08:53 06/02/22 08:53	Analyzed 06/02/22 15:23 06/02/22 15:23	Dil Fac 1 1
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead Copper Manganese General Chemistry) Result 0.0063 0.028 0.014		0.00070 0.0014 0.00070	0.00010 0.00010 0.000098 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)		06/02/22 08:53 06/02/22 08:53 06/02/22 08:53	Analyzed 06/02/22 15:23 06/02/22 15:23 06/02/22 15:23	Dil Fac 1 1 1
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead Copper Manganese General Chemistry Analyte) Result 0.0063 0.028 0.014 Result 24	Qualifier	0.00070 0.0014 0.00070 RL	0.00010 0.00010 0.000098 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u>	06/02/22 08:53 06/02/22 08:53 06/02/22 08:53 Prepared	Analyzed 06/02/22 15:23 06/02/22 15:23 06/02/22 15:23 Analyzed	Dil Fac 1 1 1 1 1 1 Dil Fac 1
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10) Result 0.0063 0.028 0.014 Result 24 ETSP042	Qualifier	0.00070 0.0014 0.00070 RL	0.00010 0.00010 0.000098 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u>	06/02/22 08:53 06/02/22 08:53 06/02/22 08:53 Prepared	Analyzed 06/02/22 15:23 06/02/22 15:23 06/02/22 15:23 06/02/22 15:23 Analyzed 05/31/22 08:00 PID: 320-88	Dil Fac 1 1 1 1 1 1 Dil Fac 1
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANI Date Collected: 05/26/22 06:27 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter General Chemistry) Result 0.0063 0.028 0.014 Result 24 ETSP042	Qualifier	0.00070 0.0014 0.00070 RL 0.29	0.00010 0.00010 0.000098 RL 0.29	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ <u>D</u>	06/02/22 08:53 06/02/22 08:53 06/02/22 08:53 Prepared	Analyzed 06/02/22 15:23 06/02/22 15:23 06/02/22 15:23 Analyzed 05/31/22 08:00 2 ID: 320-88 Mat	Dil Fac 1 1 1 1 1 1 3 398-8 rix: Air
Date Received: 05/27/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBAN Date Collected: 05/26/22 06:27 Date Received: 05/27/22 09:40 Sample Container: Folder/Filter) Result 0.0063 0.028 0.014 Result 24 ETSP042	Qualifier	0.00070 0.0014 0.00070 RL	0.00010 0.000098 RL 0.29	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u>	06/02/22 08:53 06/02/22 08:53 06/02/22 08:53 Prepared	Analyzed 06/02/22 15:23 06/02/22 15:23 06/02/22 15:23 06/02/22 15:23 Analyzed 05/31/22 08:00 PID: 320-88	Dil Fac 1 1 1 1 1 1 1 398-8

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-592059 Matrix: Air Analysis Batch: 592447	/ 1-В мв	МВ						Clie	ent Samp	ole ID: Methoo Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier	RL	Ν	/IDL U	Jnit	D	Р	repared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00	018 u	ıg/m3 (Air)		06/0	2/22 08:53	06/02/22 13:58	1
Copper	ND		0.0024	0.00	018 u	ıg/m3 (Air)		06/0	2/22 08:53	06/02/22 13:58	1
Manganese	ND		0.0012	0.00	017 u	ıg/m3 (Air)		06/0	2/22 08:53	06/02/22 13:58	1
Lab Sample ID: LCS 320-592059 Matrix: Air Analysis Batch: 592447	9/2-B		Spike	LCS	LCS	CI	ient	: Sa	mpie IU:	Lab Control S Prep Type: To Prep Batch: %Rec	otal/NA
Analyte			Added	Result	Qualit	fier Unit		D	%Rec	Limits	
Lead			0.240	0.245		ug/m3	(Air)		102	86 - 111	
Copper			0.240	0.236		ug/m3	(Air)		98	85 - 110	
Manganese			0.240	0.246		ug/m3	(Air)		103	88 - 110	
Lab Sample ID: LCSD 320-5920	59/3-B					Client S	San	ple	ID: Lab	Control Samp	le Dup

Analysis Batch: 592447									al/NA 92083
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.246		ug/m3 (Air)	_	102	86 - 111	0	15
Copper	0.240	0.236		ug/m3 (Air)		98	85 - 110	0	15
Manganese	0.240	0.244		ug/m3 (Air)		102	88 - 110	1	15

Job ID: 320-88398-1

QC Association Summary

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-88398-1

3 4 5

8 9 10 11 12 13

Metals	
Pre Prep	Batch: 592059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	Filter to Air	
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	Filter to Air	
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	Filter to Air	
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	Filter to Air	
MB 320-592059/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-592059/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-592059/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	3050B	592059	
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	3050B	592059	
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	3050B	592059	
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	3050B	592059	
MB 320-592059/1-B	Method Blank	Total/NA	Air	3050B	592059	
LCS 320-592059/2-B	Lab Control Sample	Total/NA	Air	3050B	592059	
LCSD 320-592059/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	592059	

Analysis Batch: 592447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	6020	592083
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	6020	592083
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	6020	592083
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	6020	592083
MB 320-592059/1-B	Method Blank	Total/NA	Air	6020	592083
LCS 320-592059/2-B	Lab Control Sample	Total/NA	Air	6020	592083
LCSD 320-592059/3-B	Lab Control Sample Dup	Total/NA	Air	6020	592083

General Chemistry

Pre Prep Batch: 593195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-2	GILBANETSP042622-1910	Total/NA	Air	Filter to Air	
320-88398-4	GILBANETSP042622-1911	Total/NA	Air	Filter to Air	
320-88398-6	GILBANETSP042622-1912	Total/NA	Air	Filter to Air	
320-88398-8	GILBANETSP042622-1913	Total/NA	Air	Filter to Air	

Analysis Batch: 593213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	PM10	
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	PM10	
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	PM10	
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	PM10	

Analysis Batch: 593224

Lab Sample ID 320-88398-2	Client Sample ID GILBANETSP042622-1910	Prep Type Total/NA	Air	40CFR50 App B	Prep Batch 593195
320-88398-4	GILBANETSP042622-1911	Total/NA	Air	40CFR50 App B	593195
320-88398-6	GILBANETSP042622-1912	Total/NA	Air	40CFR50 App B	593195
320-88398-8	GILBANETSP042622-1913	Total/NA	Air	40CFR50 App B	593195

Job ID: 320-88398-1

Client Sample ID: GILBANEPM042622-1910 Date Collected: 05/25/22 06:48 Date Received: 05/27/22 09:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					592059	06/02/22 08:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	592083	06/02/22 08:53	NIM	TAL SAC
Total/NA	Analysis	6020		1			592447	06/02/22 15:07	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0654 q	593213	05/31/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1910 Date Collected: 05/25/22 06:48 Date Received: 05/27/22 09:40

Ргер Туре	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			593224	05/31/22 08:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					593195	06/06/22 14:57	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1911 Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					592059	06/02/22 08:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	592083	06/02/22 08:53	NIM	TAL SAC
Total/NA	Analysis	6020		1			592447	06/02/22 15:16	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0541 g	593213	05/31/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1911 Date Collected: 05/25/22 06:37 Date Received: 05/27/22 09:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			593224	05/31/22 08:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					593195	06/06/22 14:57	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1912 Date Collected: 05/26/22 06:37 Date Received: 05/27/22 09:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					592059	06/02/22 08:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	592083	06/02/22 08:53	NIM	TAL SAC
Total/NA	Analysis	6020		1			592447	06/02/22 15:19	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.1491 g	593213	05/31/22 08:00	JMD	TAL SAC

Lab Sample ID: 320-88398-3 Matrix: Air

Lab Sample ID: 320-88398-4

Lab Sample ID: 320-88398-5

Matrix: Air

Matrix: Air

6/6/2022

Initial

Amount

Initial

Amount

0.08333

Sample

0 g

Batch

Number

593224

593195

Batch

Number

592059

592083

592447

593213

Final

Amount

Final

Amount

100 mL

0.0414 g

Dil

1

Dil

1

1

Factor

Factor

Run

Run

Batch

Туре

Analysis

Pre Prep

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Date Collected: 05/26/22 06:37

Date Received: 05/27/22 09:40

Date Collected: 05/26/22 06:27

Date Received: 05/27/22 09:40

Date Collected: 05/26/22 06:27

Date Received: 05/27/22 09:40

Prep Type

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Client Sample ID: GILBANETSP042622-1912

Client Sample ID: GILBANEPM042622-1913

Batch

Batch

3050B

6020

PM10

Client Sample ID: GILBANETSP042622-1913

Method

Filter to Air

Method

Filter to Air

40CFR50 App B

Job ID: 320-88398-1

Matrix: Air

Lab

TAL SAC

TAL SAC

Matrix: Air

TAL SAC

Lab Sample ID: 320-88398-6

Analyst

JMD

Lab Sample ID: 320-88398-7

Prepared

or Analyzed

05/31/22 08:00

Prepared

or Analyzed

06/02/22 08:53 NIM

06/02/22 15:23 SP

05/31/22 08:00 JMD

06/06/22 14:57 JMD

9

Analyst Lab 06/02/22 08:16 NIM TAL SAC

TAL SAC TAL SAC

Lab Sample ID: 320-88398-8

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			593224	05/31/22 08:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					593195	06/06/22 14:57	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

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

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

0 1	
0-1	
	5
	8
	9
	11

TAL SAC TAL SAC
TAL SAC
IAL SAC
TAL SAC
TAL SAC
TAL SAC

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: 320-88398-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88398-1	GILBANEPM042622-1910	Air	05/25/22 06:48	05/27/22 09:40
320-88398-2	GILBANETSP042622-1910	Air	05/25/22 06:48	05/27/22 09:40
320-88398-3	GILBANEPM042622-1911	Air	05/25/22 06:37	05/27/22 09:40
320-88398-4	GILBANETSP042622-1911	Air	05/25/22 06:37	05/27/22 09:40
320-88398-5	GILBANEPM042622-1912	Air	05/26/22 06:37	05/27/22 09:40
320-88398-6	GILBANETSP042622-1912	Air	05/26/22 06:37	05/27/22 09:40
320-88398-7	GILBANEPM042622-1913	Air	05/26/22 06:27	05/27/22 09:40
320-88398-8	GILBANETSP042622-1913	Air	05/26/22 06:27	05/27/22 09:40

CHAIN-O RECORD	CHAIN-OF-CUSTODY RECORD		Gilba Brett 2300 bwol	Gilbane Federal Brett Womack 2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com	ad, Suite ais.com	1050	Conc	ord, C/	194520			-	¢ oc ≉	COC # KT052622AIR	52622	AIR			Cilbane	ne
Project Na	Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	pyard, F	arcel E RA Pt	lase 2		Lab	ratory	: EURC	JFINS E	NVIRON	IMENT	TESTING	S NORTH	aboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	FORNIA	A, LLC (F		Event: P	Event: Parcel E Phase 2 Air	
Project Nu	Project Number: J310000400					POC												Monitori	ng May 2022	
WBS Code	WBS Code: J310000400-016					Ship														
Comments:	s:						-	E	E	F	F	Code	Matrix				F			
						_						۲	Air							_
												Code C	Container/Preservative	servative						
												T	k 250-mL P	1x 250-mL Plastic, 4 Degrees C	es C		Τ			
					hor		Cir					-	IX Envelope, None	None						
					110M															
Equipment:	ŧ				Tect 1															
					lsoitylsnA	CAAIR - Air	11A - 0020N A - 0203W2								8	20-8839	8 Chain	320-88398 Chain of Custody	dy	
Event	Event: Parcel E Phase 2 Air Monitoring May 2022	onitorin	g May 2022			-														
					Samp									0)	Sample	Depth (ft bgs)	ft bgs)			
-	le ID	Matrix		Time	Init.		-					Lc	Location ID		Type	Top - Bottom	_	Cooler	Comments	
1 GILBA	GILBANEPM042622-1910	A	05/25/2022	0648	¥	×	×						AMSE1		N1	0.00	0.00	+	VOLUME: 1751.97 (M3)	(M3)
2 GILB/	GILBANETSP042622-1910	A	05/25/2022	0648	¥		×		-	_			AMSE1		N1	0.00	0.00	1	VOLUME: 1670.87 (M3)	(M3)
3 GILBA	GILBANEPM042622-1911	A	05/25/2022	0637	¥	×	×						AMSE2		N	0.00	0.00	-	VOLUME: 1739.20 (M3)	(W3)
4 GILBA	GILBANETSP042622-1911	A	05/25/2022	0637	Ā		×				_		AMSE2		N1	0.00	0.00	+	VOLUME: 1745.79 (M3)	(M3)
2 GILB/	GILBANEPM042622-1912	A	05/26/2022	0637	Ł	×	×			_	_		AMSE1		N1	0.00	0.00	1	VOLUME: 1726.43 (M3)	(M3)
6 GILB/	GILBANETSP042622-1912	A	05/26/2022	0637	КŢ	_	×			_			AMSE1		N1	0.00	0.00	+	VOLUME: 1647.72 (M3)	(M3)
7 GILB/	GILBANEPM042622-1913	A	05/26/2022	0627	¥	×	×						AMSE2		N1	0.00	0.00	+	VOLUME: 1721.34 (M3)	(M3)
8 GILB/	GILBANETSP042622-1913	A	05/26/2022	0627	¥	_	×			_			AMSE2		N1	0.00	0.00	1	VOLUME: 1723.08 (M3)	(M3)
6							\parallel					dH	5/26/22	2						
10							_								T	T	T			
Turnarour	Turnaround Time: 5 days																			
Relinquis	Relinquished by: (Signature)	-	Date	Time	Received	d by:	by: (Signature)	ature)				Date	Tir	Time Shir	pina Da	ate / Car	rrier / Ai	Shipping Date / Carrier / Airbill Number	nber	
		03	5/26/22	1600	HL.	Fedex	ex.				21	1	12	1	ping Dat	te: 5/26/	2022/F	edEx 77	Shipping Date: 5/26/2022 / FedEx 7769 5677 1562	
											V	24C	101	No.						
													:	Rec	eived by	/ Labor	atory: (S	Signature	Received by Laboratory: (Signature, Date, Time) & condition	lition
		+											+	1						
GES.Navy_COC_Field)C_Field										-		-]
WIDY 24, 44-4																1912	~		_	Page 1 of 1

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 88398 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 320-88398-1

List Source: Eurofins Sacramento

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-88535-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Attn:

..... Links

Review your project results through

EOL

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The

www.eurofinsus.com/Env

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Expert

Authorized for release by: 6/10/2022 8:42:16 AM

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

Glossary

Job ID: 320-88535-1

	3
	5
	8
	9

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Job ID: 320-88535-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-88535-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 6/2/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.1° C.

Metals

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

Detection Summary

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

Client Sample ID: GILBANEPM042622-1914

Lab Sample ID: 320-88535-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.0025	0.00038	ug/m3 (Air)	1	- 6	6020	Total/NA
Copper	0.11		0.0050	0.00038	ug/m3 (Air)	1	6	6020	Total/NA
Manganese	0.013		0.0025	0.00035	ug/m3 (Air)	1	6	6020	Total/NA
Particulate Matter as PM 10	24		1.0	1.0	ug/m3	1	F	PM10	Total/NA
Client Sample ID: GILBA	NETSP042	622-1914				Lab S	San	nple ID: 32)-88535-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	35.5794		1.0914	1.0914	ug/m3 (Air)	1		40CFR50 App B	Total/NA
Client Sample ID: GILBA	NEPM0426	22-1915				Lab S	San	nple ID: 320)-88535-3
		22-1915 Qualifier	RL	MDL	Unit	Lab S		nple ID: 320 Method)-88535-3 Prep Type
Analyte			RL 0.0025	MDL 0.00038	Unit ug/m3 (Air)		D		
Analyte Lead	Result							Method	Prep Type
Analyte Lead Copper	Result		0.0025	0.00038 0.00038	ug/m3 (Air)			Method 6020	Prep Type Total/NA
Analyte Lead Copper Manganese	Result 0.0033 0.052		0.0025	0.00038 0.00038 0.00035	ug/m3 (Air) ug/m3 (Air)			Method 6020 6020	Prep Type Total/NA Total/NA
Client Sample ID: GILBA Analyte Lead Copper Manganese Particulate Matter as PM 10 Client Sample ID: GILBA	Result 0.0033 0.052 0.0089 17	Qualifier	0.0025 0.0051 0.0025	0.00038 0.00038 0.00035	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	Dil Fac 1 1 1 1	D I 6 6 6	Method 5020 5020 5020	Prep Type Total/NA Total/NA Total/NA Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.5473		1.0406	1.0406	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Date Collected: 05/26/22 13:17 Date Received: 06/02/22 09:00	1110420	22-1914				L	ab Sample.	e ID: 320-88 Mat	8535-1 trix: Air
Sample Container: Folder/Filter									
Method: 6020 Metalo (ICD/MS)									
Method: 6020 - Metals (ICP/MS) Analyte	Rosult	Qualifier	RL	МП	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.0025		ug/m3 (Air)		06/07/22 08:30	06/08/22 14:07	
Copper	0.0001		0.0050		ug/m3 (Air)		06/07/22 08:30	06/08/22 14:07	
Manganese	0.013		0.0025		ug/m3 (Air)			06/08/22 14:07	
_ General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	24		1.0	1.0	ug/m3			06/03/22 11:00	
Client Sample ID: GILBANET	SP042	622-1914				L	ab Sample	D: 320-88	3535-2
Date Collected: 05/26/22 13:17								Mat	rix: Ai
Date Received: 06/02/22 09:00									
Sample Container: Folder/Filter									
_ General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Particulates	35.5794		1.0914	1.0914	ug/m3 (Air)			06/03/22 11:00	
Client Sample ID: GILBANEP	°M0426	22-1915				L	ab Sample	e ID: 320-88	3535-3
	°M0426	22-1915				L	ab Sample.	e ID: 320-88 Mat	
Date Collected: 05/26/22 13:06	°M0426	22-1915				L	ab Sample.		
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00	°M0426	22-1915				L	ab Sample.		
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter	°M0426	22-1915				L	ab Sample.		
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)			RL	MDL	Unit			Mat	rix: Ai
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	Result	Qualifier	RL 0.0025		Unit ug/m3 (Air)	L 	Prepared 06/07/22 08:30		rix: Aiı
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead				0.00038	ug/m3 (Air)		Prepared	Mat	Dil Fa
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	Result 0.0033		0.0025	0.00038 0.00038			Prepared 06/07/22 08:30	Mat Analyzed 06/08/22 14:23 06/08/22 14:23	Dil Fac
Analyte Lead Copper Manganese	Result 0.0033 0.052		0.0025 0.0051	0.00038 0.00038	ug/m3 (Air) ug/m3 (Air)		Prepared 06/07/22 08:30 06/07/22 08:30	Mat Analyzed 06/08/22 14:23 06/08/22 14:23	Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry	Result 0.0033 0.052 0.0089	Qualifier	0.0025 0.0051 0.0025	0.00038 0.00038 0.00035	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	<u>D</u>	Prepared 06/07/22 08:30 06/07/22 08:30 06/07/22 08:30	Mat <u>Analyzed</u> 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23	Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte	Result 0.0033 0.052 0.0089 Result		0.0025 0.0051 0.0025 RL	0.00038 0.00038 0.00035 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		Prepared 06/07/22 08:30 06/07/22 08:30	Mat <u>Analyzed</u> 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23 Analyzed	3535-3 irix: Ai Dil Fac Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10	Result 0.0033 0.052 0.0089 Result 17	Qualifier	0.0025 0.0051 0.0025	0.00038 0.00038 0.00035 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	_ <u>D</u> _	Prepared 06/07/22 08:30 06/07/22 08:30 06/07/22 08:30 Prepared	Mat <u>Analyzed</u> 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23 <u>Analyzed</u> 06/03/22 11:00	Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANET	Result 0.0033 0.052 0.0089 Result 17	Qualifier	0.0025 0.0051 0.0025 RL	0.00038 0.00038 0.00035 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u> _	Prepared 06/07/22 08:30 06/07/22 08:30 06/07/22 08:30 Prepared	Mat Analyzed 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23 Analyzed 06/03/22 11:00 Analyzed 06/03/22 11:00	Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANET Date Collected: 05/26/22 13:06	Result 0.0033 0.052 0.0089 Result 17	Qualifier	0.0025 0.0051 0.0025 RL	0.00038 0.00038 0.00035 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u> _	Prepared 06/07/22 08:30 06/07/22 08:30 06/07/22 08:30 Prepared	Mat Analyzed 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23 Analyzed 06/03/22 11:00 Analyzed 06/03/22 11:00	Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANET Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00	Result 0.0033 0.052 0.0089 Result 17	Qualifier	0.0025 0.0051 0.0025 RL	0.00038 0.00038 0.00035 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u> _	Prepared 06/07/22 08:30 06/07/22 08:30 06/07/22 08:30 Prepared	Mat Analyzed 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23 Analyzed 06/03/22 11:00 Analyzed 06/03/22 11:00	Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GILBANET Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00	Result 0.0033 0.052 0.0089 Result 17	Qualifier	0.0025 0.0051 0.0025 RL	0.00038 0.00038 0.00035 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u> _	Prepared 06/07/22 08:30 06/07/22 08:30 06/07/22 08:30 Prepared	Mat Analyzed 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23 Analyzed 06/03/22 11:00 Analyzed 06/03/22 11:00	Dil Fac
Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte	Result 0.0033 0.052 0.0089 Result 17	Qualifier	0.0025 0.0051 0.0025 RL	0.00038 0.00038 0.00035 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ <u>D</u> _	Prepared 06/07/22 08:30 06/07/22 08:30 06/07/22 08:30 Prepared	Mat Analyzed 06/08/22 14:23 06/08/22 14:23 06/08/22 14:23 Analyzed 06/03/22 11:00 Analyzed 06/03/22 11:00	Dil Fac

Client: GES-AIS, LLC

Job ID: 320-88535-1

Eurofins Sacramento

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-593357/1-B **Client Sample ID: Method Blank** Matrix: Air Prep Type: Total/NA Analysis Batch: 594087 Prep Batch: 593375 MB MB Analyte **Result Qualifier** RL MDL Unit Prepared Analyzed Dil Fac D 0.00018 ug/m3 (Air) 06/07/22 08:30 06/08/22 13:47 Lead ND 0.0012 1 Copper ND 0.0024 0.00018 ug/m3 (Air) 06/07/22 08:30 06/08/22 13:47 1 Manganese ND 0.0012 0.00017 ug/m3 (Air) 06/07/22 08:30 06/08/22 13:47 1 Lab Sample ID: LCS 320-593357/2-B **Client Sample ID: Lab Control Sample** Matrix: Air Prep Type: Total/NA Analysis Batch: 594087 Prep Batch: 593375 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.245 ug/m3 (Air) 102 86 - 111 0.240 0.249 ug/m3 (Air) 104 85 - 110 Copper ug/m3 (Air) Manganese 0.240 0.253 105 88 - 110

Lab Sample ID: LCSD 320-593357/3-B Matrix: Air Analysis Batch: 594087

Analysis Batch: 594087							Prep Ba	tch: 59	3375
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.244		ug/m3 (Air)	_	102	86 - 111	0	15
Copper	0.240	0.252		ug/m3 (Air)		105	85 - 110	1	15
Manganese	0.240	0.255		ug/m3 (Air)		106	88 - 110	1	15

Client Sample ID:	Lab Contro	Sample Dup

Limits			
86 - 111			
85 - 110			
88 - 110			
Control S			
Prep Typ	e: Tot	al/NA	
Prep Bat	tch: 59	3375	
%Rec		RPD	
Limits	RPD	Limit	

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Air

Air

Air

Air

Air

Matrix

Air

Air

Air

Air

Air

Matrix

Air

Air

Air

Air

Air

Method

Filter to Air

Method

3050B

3050B

3050B

3050B

3050B

Method

6020

6020

6020

6020

6020

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

Client Sample ID

Method Blank

Lab Control Sample

Client Sample ID

Lab Control Sample

Client Sample ID

Lab Control Sample

Method Blank

Lab Control Sample Dup

GILBANEPM042622-1914

GILBANEPM042622-1915

Lab Control Sample Dup

Method Blank

GILBANEPM042622-1914

GILBANEPM042622-1915

Lab Control Sample Dup

GILBANEPM042622-1914

GILBANEPM042622-1915

Metals

Lab Sample ID

MB 320-593357/1-B

LCS 320-593357/2-B

LCSD 320-593357/3-B

Prep Batch: 593375

MB 320-593357/1-B

LCS 320-593357/2-B

LCSD 320-593357/3-B

Analysis Batch: 594087

Lab Sample ID

Lab Sample ID

MB 320-593357/1-B

LCS 320-593357/2-B

LCSD 320-593357/3-B

320-88535-1

320-88535-3

320-88535-1

320-88535-3

320-88535-1

320-88535-3

Pre Prep Batch: 593357

Prep Batch

Prep Batch

593357

593357

593357

593357

593357

Prep Batch

593375

593375

593375

593375

593375

General Chemistry

Analysis Batch: 594204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-1	GILBANEPM042622-1914	Total/NA	Air	PM10	
320-88535-3	GILBANEPM042622-1915	Total/NA	Air	PM10	
Pro Prop Batch: 59/20					

Pre Prep Batch: 594206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-2	GILBANETSP042622-1914	Total/NA	Air	Filter to Air	
320-88535-4	GILBANETSP042622-1915	Total/NA	Air	Filter to Air	

Analysis Batch: 594207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-2	GILBANETSP042622-1914	Total/NA	Air	40CFR50 App B	594206
320-88535-4	GILBANETSP042622-1915	Total/NA	Air	40CFR50 App B	594206

6/10/2022

Initial

Amount

0.08333 Sample

0 g

Batch

Number

593357

593375

594087

594204

Final

Amount

100 mL

0.0114 g

Dil

1

1

Factor

Run

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Date Collected: 05/26/22 13:17

Date Received: 06/02/22 09:00

Date Collected: 05/26/22 13:17

Date Received: 06/02/22 09:00

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Client Sample ID: GILBANEPM042622-1914

Batch

3050B

6020

PM10

Client Sample ID: GILBANETSP042622-1914

Method

Filter to Air

Job ID: 320-88535-1

Lab

TAL SAC

TAL SAC

TAL SAC

TAL SAC

Matrix: Air

Matrix: Air

Lab Sample ID: 320-88535-1 Matrix: Air

Analyst

9

Lab Sample ID: 320-88535-2 Matrix: Air Batch Prepared

Lab Sample ID: 320-88535-4

Prepared

or Analyzed

06/07/22 07:23 NIM

06/07/22 08:30 NIM

06/08/22 14:07 JMD

06/03/22 11:00 JMD

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			594207	06/03/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1915 Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					593357	06/07/22 07:23	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	593375	06/07/22 08:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			594087	06/08/22 14:23	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0079 g	594204	06/03/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1915 Date Collected: 05/26/22 13:06 Date Received: 06/02/22 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			594207	06/03/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	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

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

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

5
8
9
11
13

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 Refe	rences:		
40CFR50J	= 40 CFR Part 50 Appendix J		
EPA = US E	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: 320-88535-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88535-1	GILBANEPM042622-1914	Air	05/26/22 13:17	06/02/22 09:00
320-88535-2	GILBANETSP042622-1914	Air	05/26/22 13:17	06/02/22 09:00
320-88535-3	GILBANEPM042622-1915	Air	05/26/22 13:06	06/02/22 09:00
320-88535-4	GILBANETSP042622-1915	Air	05/26/22 13:06	06/02/22 09:00

RECH	CHAIN-OF-CUSTODY RECORD		Gilba Brett 2300 bwor	Gilbane Federal Brett Womack 2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com	d, Suite is.com	1050,	Conco	d, CA (34520			COC	COC # KT052622AAIR	52622	AAIR	~		Cilbane
Proje	Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	yard, P	arcel E RA Ph	ase 2		Labo	atory:	EUROF	INS EN	'IRONM	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	G NORT	HERN CAL	IFORNIA	V, LLC (E		Event: Pa	arcel E Phase 2 Air
Proje	Project Number: J310000400					POC:										TT	Monitorin	Monitoring May 2022
2014	CODB: 3310000400-010					dius												
Equi	Comments: Equipment:				Analytical Test Method	01M9 אוי אוי אואס אוי אואס	40500 - Air Pb Mn Cu 3W6020 - Air Pb Mn Cu					Air Air T 250-mL Plastic, 4 D 1x Envelope, None	Air Air Container/Preservative 1x Envelope, None 33	330-88	235 Ch	c c 320-88535 Chain of Custody	stody	
	Event: Parcel E Phase 2 Air Monitoring May 2022	nitoring	May 2022			-	-											
0,	Sample ID	Matrix	Date	Time	Samp Init.							Location ID		Sample Type	Depth (ft bgs) Top - Bottom		Cooler	Comments
-	GILBANEPM042622-1914	A	05/26/2022	1317	КT	×	×					AMSE1		N2	0.00		-	VOLUME: 477.34 (M3)
2	GILBANETSP042622-1914	۲	05/26/2022	1317	КŢ		×					AMSE1		N2	0.00	0.00	-	VOLUME: 458.13 (M3)
m	GILBANEPM042622-1915	4	05/26/2022	1306	¥	×	×	_				AMSE2		N2	0.00	0.00	-	VOLUME: 475.02 (M3)
	GILBANETSP042622-1915	4	05/26/2022	1306	¥		×					AMSE2		N2	0.00	0.00	-	VOLUME: 480.50 (M3)
2	/							-		-	_							
9					P		17	127		-	_						-	
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10						1				-							1	
Turn	Turnaround Time: 5 days																	
		-	Date	Time	Received		hv. /Signaturo	III			Dato	-	Timo Chi.					
	1	1	5/21/22				Bin	(am			5/21/22	-	-	Shipping Date: 5/31/2022 / FedEx 7769 99	e: 5/31/2	2022 / Fe	adEx 776	Shipping Date: 5/31/2022 / FedEx 7769 9988 7660
		1	101/10		- V	5	2				1/1010	J						
		+						PTSac	Sal		62.23		DPOJ Rec	eived by	Labora	tory: (S	ignature	Received by Laboratory: (Signature Date Time) & condition
																	in the second se	
		_										_						
GES.N May 31	GES.Navy_COC_Field May 31, 2022														12	1,112		Page 1 of 1

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Login Number: 88535 List Num<u>ber: 1</u>

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

List Source: Eurofins Sacramento



Environment Testing America

Eurofins Sacramento Corrective Action Report

Title: Filter Weights Missed

Reference: 6894-20074

Initiated by:

Date: 16 May 2022

Description of Problem:

Prior to sending filters to samplers for field use, two constant weights are measured; then the average of the two weights is used as the tare weight of the filters. For several login groups' filters, a second weight was not acquired during the initial tare weight process. In order to acquire the tare weight of the filters, the value of the first weight was entered again in the second weight column on the particulate spreadsheet to allow calculation.

Investigation Planned or Completed:

For the analytical methods Particulate Matter by PM10 (PM10) and Total Suspended Particulate (TSP) samples' collection for the following login groups, it was found that the analyst at the time did not record a second weight for tare weight calculation: 320-87209, 320-87310, 320-87453, 320-87454, 320-87609 and 320-87735. The process for preparing air media (filters) for shipment was reviewed. It was found that the procedure is not well documented in the laboratory SOP. In addition, at the time these filters were prepared, a single analyst was trained in how to prepare the filters.

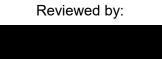
Root Cause Analysis

The root cause of not recording the second weight for tare weight calculation could not be definitively determined. It is presumed to be a user error resulting in either not performing or not saving the second weight. Contributing causes include the lack of a second analyst to review the media documentation prior to sending out and the lack of a defined procedure for documenting the media preparation.

Corrective Action Plan

To correct the presumed root cause of not recording the second weight for tare weight calculation in the Excel spreadsheet used, laboratory staff have been retrained regarding recording weights for PM10 and TSP; and staff have been trained to look for the initial weight instability check flag on the particulate data excel sheet when taking weights, as samples are flagged as "UNSTABLE" if two stable weights are not recorded. To correct the contributing causes and prevent recurrence, the laboratory has instituted a second-level review of the spreadsheets that contain the air filter initial masses prior to sending those filters out to clients. This review will be documented on the air media request form. In addition, a second analyst is to be trained on the process to provide redundancy for filter preparation. Finally, the SOP will be revised to include detailed direction for preparation of the filters and documentation of the preparation prior to sending to the client.

Eurofins TestAmerica Sacramento Corrective Action Report 6894-20074 Filter Weights Missed



13 June 2022 Date



13 June 2022 Date