



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

September 1<sup>st</sup>, 2021 through September 30<sup>th</sup>, 2021

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CALIFORNIA**

September 1<sup>st</sup>, 2021 through September 30<sup>th</sup>, 2021

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Prepared for:



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## Acronyms and Abbreviations

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



## 1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by Gilbane Federal (Gilbane) as requested by the United States Department of the Navy (Navy) under Radiological Environmental Multiple Award Contract N62473-17-D-0005, Contract Task Order (CTO) N6247317F4332. Gilbane is performing air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Final Dust Monitoring and Control Plan (DMCP), included as Appendix E to *Final Remedial Action Work Plan, Parcel E Remedial Action Phase 2, Hunters Point Naval Shipyard, San Francisco, California* (RAWP; Gilbane, 2019a). The Dust Monitoring and Control Plan (DMCP) describes the procedures that minimize dust during work activities and requires air monitoring to ensure these procedures are effective. The DMCP helps prevent exposure of residents and construction crews to potential airborne chemicals of concern, and dust from the work area.

This summary report describes the following:

- Where and how air monitoring samples were collected.
- What test methods were used to analyze air monitoring samples.
- How air monitoring data were evaluated.

This AMSR summarizes the air monitoring activities conducted by Gilbane at HPNS Parcel E from September 1<sup>st</sup>, 2021 through September 30<sup>th</sup>, 2021 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

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## 2.0 Monitoring Site Locations

Air monitoring stations were deployed at one upwind and one downwind location from the work area whenever active soil handling operations were in progress. Based on past meteorological data, the prevalent wind direction at HPNS was from the west or west-southwest. The locations of Parcel E air monitoring stations are presented on **Figure 2-1**.

Air monitoring was performed to estimate and assess the impact of field activities. The locations of air monitoring stations were determined based on the prevailing wind direction and were modified as needed for accessibility and worker safety considerations. Wind direction was monitored daily using a windsock and confirmed with the prevalent wind direction recorded for the Hunters Point Station (APTIM HPNS – KCASANFR1504) published at Weather Underground ([www.wunderground.com](http://www.wunderground.com)). Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at [www.wunderground.com](http://www.wunderground.com) (see **Attachment 1**). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

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

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## **3.0 Analytical Methods**

### **3.1 Asbestos**

Air samples were sampled and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400, from the NIOSH Manual of Analytical Methods (NIOSH, 1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters fitted with conductive cowlings at a sampling rate of between 0.5 liters per minute (L/min) and 16 L/min. Each sample was collected over a period of less than 24 hours. Asbestos results were reviewed for anomalies and compliance with the action levels listed below.

### **3.2 PM10, Copper, Lead, and Manganese**

Filter-based PM10 data are collected to ensure the protection of public health and safety during construction operations. Filter-based PM10 data are generated by sampling with calibrated air monitoring equipment that are operated continuously over a period of time (usually 8 or 24 hours) in accordance with the U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in Title 40 Code of Federal Regulations (CFR), Part 50, Subpart J. During the sampling, measurements are taken to precisely calculate the volume of air that has passed through the filter media sample. The period sampled is dependent on the duration of the work activity. The sample is then shipped to a certified analytical laboratory where the concentration is gravimetrically determined. The sample results are reviewed for field and laboratory anomalies to provide confidence in the data and compared to air quality criteria to ensure compliance with the action levels listed below. In this way the precise amount of PM10 present in each cubic meter of air is determined.

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

### **3.3 TSP**

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with EPA's reference sampling method for TSP, described in 40 CFR 50, Subpart B. Each sample was collected on a filter over an approximately 8 to 24-hour period (depending on the duration of the work activity). The filter was then weighed to determine the amount of TSP collected. The resulting concentration was compared to the HPNS Basewide level listed below to minimize permissible dust releases from the site.

### 3.4 Radionuclides of Concern

Radiological air samples were collected on filter media with a LV-1 low-volume air sampler. The air filter concentration is counted onsite following a decay period and are compared with public air concentration limits published in 10 CFR Part 20. Radiological air sampling methods and procedures are detailed in Gilbane Radiological Procedure PR-RP-150 *Radiological Survey and Sampling* (Gilbane, 2019b).

The radiological air sample concentration is counted on a Low Background Protean WPC-9950 and analyzed for gross alpha and beta activity. The calculated airborne concentration in microcuries is then compared to the effluent concentration limit specified in Table 2 of Appendix B to 10 CFR 20. The effluent concentration of a given radionuclide in air which, if inhaled continuously over the course of a year, results in an exposure equal to the annual regulatory limit specified in 10 CFR 20.1302. The threshold for radiological effluent concentration in air samples is 10 percent of the effluent concentration, which ensures work practices are evaluated and modified as necessary to ensure the limit is not reached.

The equipment specifications and sampling procedures have complied with the specifications provided in the regulations for the sampler, filter media, accuracy, calibration, and quality assurance.

## 4.0 Air Monitoring Data Interpretation and Action Levels

To facilitate the comparison to project action levels, the delta between the upwind and downwind PM10 and TSP analytical results was calculated for detected values. Calculated negative values indicating that the upwind concentration was greater than the downwind concentration and non-detected values where no delta was calculated, are interpreted as acceptable.

The resulting deltas for PM10 and TSP and analytical data from air monitoring metals and radiological samples were compared with the threshold criteria listed in **Table 4-1** reproduced from Table 1 of the approved DMCP (Appendix E of the RAWP [Gilbane, 2019a]. The PM10 delta was additionally compared to the criterion taken from the *Technical Memorandum: Draft Dust Action Levels for Parcel E, Hunters Point Shipyard, San Francisco, California* (Department of Toxic Substances Control [DTSC] 2017) of 50 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

**Table 4-1: Air Monitoring Threshold Criteria**

Test Parameter	Threshold Criteria	Threshold Criteria Reference
Asbestos	0.1 fiber/cm <sup>3</sup>	Cal/OSHA PEL
PM10 <sup>a</sup>	5,000 $\mu\text{g}/\text{m}^3$	Cal/OSHA PEL
TSP	0.5 mg/m <sup>3</sup>	Basewide HPNS Level selected to minimize overall permissible dust release from sites
Copper	1.0 mg/m <sup>3</sup>	Cal/OSHA PEL
Lead	0.050 mg/m <sup>3</sup>	Cal/OSHA PEL
Manganese	0.200 mg/m <sup>3</sup>	Cal/OSHA PEL
Radiological	10% of Effluent Concentration Values	Occupational and public air concentration limits for ROCs are published in 10 Code of Federal Regulations Part 20, Appendix B.

**Notes:**

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

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

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

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

HPNS = Hunters Point Naval Shipyard

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

PEL = permissible exposure limit

PM10 = particulate matter less than 10 microns in diameter

ROC = radionuclide of concern

TSP = total suspended particulates

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## 5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as **Attachment 1**. Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from September 1<sup>st</sup> to September 30<sup>th</sup>, 2021, during which Gilbane was preparing site for excavation, potholing, excavating, transporting soil and import fill, and backfilling soil. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks. The site was closed on September 6<sup>th</sup>, 2021.

Construction and remediation activities conducted from September 1<sup>st</sup> to September 30<sup>th</sup>, 2021 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from September 1<sup>st</sup> to September 30<sup>th</sup>, 2021 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 September 1<sup>st</sup> to September 30<sup>th</sup>, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 3** and **Attachment 4**.

TSP results from September 1<sup>st</sup> to September 30<sup>th</sup>, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from September 1<sup>st</sup> to September 30<sup>th</sup>, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 6**.

Analytical laboratory reports are included as **Attachment 7** and were subjected to cursory review by the Project Chemist. No data quality issues were noted. The data, as qualified, should be considered usable for their intended purposes.

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## 6.0 References

Department of Toxic Substances Control (DTSC), 2017. Draft Technical Memorandum: Dust Action Levels for Parcel E, Hunters Point. May.

National Institute for Occupational Safety and Health, (NIOSH), 1994. Manual of Analytical Methods.

United States Environmental Protection Agency (EPA), 1999. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.

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

Gilbane Federal, 2019b. Radiological Procedure PR-RP-150 *Radiological Survey and Sampling, Version 01*, October 1.

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# FIGURES

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**Parcel E**  
Hunters Point Naval Shipyard  
San Francisco, California

**Figure 2-1**  
Air Monitoring Stations

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

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

<b>Start Date</b>	<b>Ambient Pressure (in Hg)</b>	<b>Ambient Temperature (°F)</b>	<b>Prevalent Wind Direction</b>
9/1/2021	29.91	61.86	WSW
9/2/2021	30.01	61.52	WSW
9/7/2021	30.00	62.82	W
9/8/2021	29.92	62.76	W
9/9/2021	29.93	61.37	W
9/13/2021	29.93	61.12	W
9/14/2021	29.96	59.60	W
9/15/2021	29.95	58.29	W
9/16/2021	29.93	60.02	WSW
9/20/2021	30.03	70.88	W
9/21/2021	30.13	70.22	NNW
9/22/2021	30.10	59.32	WNW
9/23/2021	30.01	61.85	W
9/27/2021	30.13	61.75	WSW
9/28/2021	30.07	61.87	WNW
9/29/2021	30.06	61.89	WSW
9/30/2021	30.08	66.81	SSW

**Notes:**

Data collected using wunderground.com from APTIM HPNS - KCASANFR1504

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

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# **ATTACHMENT 2**

## **ASBESTOS MONITORING RESULTS**

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## Attachment 2: Asbestos Monitoring Results

Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date <sup>1</sup>	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm <sup>3</sup> )	Exceedance (Yes/No)
MSE01-090121	09/01/21	1	477	954	25.0	0.013	No
MSE02-090121	09/01/21	2	487	974	18.5	0.009	No
MSE01-090221	09/02/21	1	456	912	13.0	0.007	No
MSE02-090221	09/02/21	2	457	914	12.0	0.006	No
MSE01-090721	09/07/21	1	509	1018	18.5	0.009	No
MSE02-090721	09/07/21	2	523	1046	15.5	0.007	No
MSE01-090821	09/08/21	1	495	990	12.5	0.006	No
MSE02-090821	09/08/21	2	517	1034	13.0	0.006	No
MSE01-090921	09/09/21	1	457	914	22.0	0.012	No
MSE02-090921	09/09/21	2	465	930	27.0	0.014	No
MSE01-091321	09/13/21	1	504	1008	16.5	0.008	No
MSE02-091321	09/13/21	2	504	1008	17.0	0.008	No
MSE01-091421	09/14/21	1	522	1044	19.0	0.009	No
MSE02-091421	09/14/21	2	529	1058	17.0	0.008	No
MSE01-091521	09/15/21	1	526	1052	19.0	0.009	No
MSE02-091521	09/15/21	2	505	1010	15.0	0.007	No
MSE01-091621	09/16/21	1	522	1044	12.5	0.006	No
MSE02-091621	09/16/21	2	530	1060	12.0	0.006	No
MSE01-092021	09/20/21	1	510	1020	10.0	0.005	No
MSE02-092021	09/20/21	2	543	1086	13.5	0.006	No
MSE01-092121	09/21/21	1	456	912	21.0	0.011	No
MSE02-092121	09/21/21	2	472	944	16.0	0.008	No
MSE01-092221	09/22/21	1	500	1000	11.5	0.006	No
MSE02-092221	09/22/21	2	509	1018	16.5	0.008	No
MSE01-092321	09/23/21	1	390	780	10.0	0.006	No
MSE02-092321	09/23/21	2	413	826	11.0	0.007	No
MSE01-092721	09/27/21	1	455	910	16.0	0.009	No
MSE02-092721	09/27/21	2	500	1000	14.5	0.007	No
MSE01-092821	09/28/21	1	516	1032	23.5	0.011	No
MSE02-092821	09/28/21	2	535	1070	15.0	0.007	No
MSE01-092921	09/29/21	1	515	1030	18.0	0.009	No
MSE02-092921	09/29/21	2	530	1060	16.0	0.007	No
MSE01-093021	09/30/21	1	460	920	11.5	0.006	No
MSE02-093021	09/30/21	2	460	920	16.5	0.009	No

**Notes:**

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

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

L = liter

min = minutes

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

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**ATTACHMENT 3**  
**PARTICULATE MATTER, SMALLER THAN TEN MICRONS**  
**(PM10) MONITORING RESULTS**

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

Sample, Date and Station Information			Sampler Run Information	PM10						
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (ug/m <sup>3</sup> )	Cal/OSHA PEL (ug/m <sup>3</sup> )	Exceedance (Yes/No)	HERO Action Level <sup>4</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANEP070821-1312	1	9/1/2021	1718.55	0.044						
GILBANEP070821-1313	2	9/1/2021 <sup>3</sup>	1766.38	0.0067	-0.0373	-37.3	5,000	No	50	No
GILBANEP070821-1314	1	9/2/2021	1724.29	0.047						
GILBANEP070821-1315	2	9/2/2021	1715.96	0.04	-0.0070	-7.0	5,000	No	50	No
GILBANEP070821-1316	1	9/2/2021 <sup>2</sup>	577.41	0.068						
GILBANEP070821-1317	2	9/2/2021 <sup>2</sup>	587.39	0.051	-0.0170	-17.0	5,000	No	50	No
GILBANEP070821-1318	1	9/8/2021	1703.59	0.031						
GILBANEP070821-1319	2	9/8/2021	1755.42	0.022	-0.0090	-9.0	5,000	No	50	No
GILBANEP072921-1363	1	9/9/2021	1728.59	0.031						
GILBANEP072921-1364	2	9/9/2021	1769.77	0.02	-0.0110	-11.0	5,000	No	50	No
GILBANEP072921-1365	1	9/9/2021 <sup>2</sup>	555.37	0.027						
GILBANEP072921-1366	2	9/9/2021 <sup>2</sup>	564.92	0.019	-0.0080	-8.0	5,000	No	50	No
GILBANEP072921-1367	1	9/14/2021	1714.27	0.037						
GILBANEP072921-1368	2	9/14/2021	1783.16	0.028	-0.0090	-9.0	5,000	No	50	No
GILBANEP072921-1369	1	9/15/2021	1715.26	0.034						
GILBANEP072921-1370	2	9/15/2021	1770.84	0.019	-0.0150	-15.0	5,000	No	50	No
GILBANEP072921-1371	1	9/16/2021	1725.76	0.023						
GILBANEP072921-1372	2	9/16/2021	1505.74	0.016	-0.0070	-7.0	5,000	No	50	No
GILBANEP072921-1373	1	9/16/2021 <sup>2</sup>	601.31	0.02						
GILBANEP072921-1374	2	9/16/2021 <sup>2</sup>	622.46	0.013	-0.0070	-7.0	5,000	No	50	No
GILBANEP072921-1375	1	9/21/2021	1733.07	0.03						
GILBANEP072921-1376	2	9/21/2021	1765.84	0.021	-0.0090	-9.0	5,000	No	50	No
GILBANEP072921-1377	1	9/22/2021	1759.59	0.028						
GILBANEP072921-1378	2	9/22/2021	1742.33	0.032	0.0040	4.0	5,000	No	50	No
GILBANEP091421-1459	1	9/23/2021	1760.22	0.018						
GILBANEP091421-1460	2	9/23/2021	1788.56	0.015	-0.0030	-3.0	5,000	No	50	No
GILBANEP091421-1461	1	9/23/2021 <sup>2</sup>	474.38	0.024						
GILBANEP091421-1462	2	9/23/2021 <sup>2</sup>	513.51	0.02	-0.0040	-4.0	5,000	No	50	No
GILBANEP091421-1463	1	9/28/2021	1686.92	0.031						
GILBANEP091421-1464	2	9/28/2021	1731.65	0.0067	-0.0243	-24.3	5,000	No	50	No
GILBANEP091421-1465	1	9/29/2021	1768.09	0.062						
GILBANEP091421-1466	2	9/29/2021	1779.54	0.023	-0.0390	-39.0	5,000	No	50	No
GILBANEP091421-1467	1	9/30/2021	1777.63	0.06						
GILBANEP091421-1468	2	9/30/2021	1794.35	0.033	-0.0270	-27.0	5,000	No	50	No
GILBANEP091421-1469	1	9/30/2021 <sup>2</sup>	540.21	0.064						
GILBANEP091421-1470	2	9/30/2021 <sup>2</sup>	573.91	0.033	-0.0310	-31.0	5,000	No	50	No

**Notes:**

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

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

<sup>3</sup>Generator malfunction

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

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

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

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

PEL = permissible exposure limit

PM10 = particulate matter smaller than 10 microns in diameter

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

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# **ATTACHMENT 4**

## **COPPER, LEAD, AND MANGANESE MONITORING RESULTS**

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**Attachment 4: Copper, Lead, and Manganese Monitoring Results**

Sample, Date and Station Information			Sampler Run Information	Copper		Lead		Manganese	
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANEPM070821-1312	1	9/1/2021	1718.55	0.0000530	No	0.0000043	No	0.0000150	No
GILBANEPM070821-1313	2	9/1/2021 <sup>3</sup>	1766.38	0.0001600	No	0.0000008	No	0.0000022	No
GILBANEPM070821-1314	1	9/2/2021	1724.29	0.0001400	No	0.0000042	No	0.0000180	No
GILBANEPM070821-1315	2	9/2/2021	1715.96	0.0005200	No	0.0000018	No	0.0000120	No
GILBANEPM070821-1316	1	9/2/2021 <sup>2</sup>	577.41	0.0001200	No	0.0000099	No	0.0000280	No
GILBANEPM070821-1317	2	9/2/2021 <sup>2</sup>	587.39	0.0004200	No	0.0000030	No	0.0000140	No
GILBANEPM070821-1318	1	9/8/2021	1703.59	0.0000390	No	0.0000072	No	0.0000130	No
GILBANEPM070821-1319	2	9/8/2021	1755.42	0.0000083	No	0.0000016	No	0.0000046	No
GILBANEPM072921-1363	1	9/9/2021	1728.59	0.0001300	No	0.0000078	No	0.0000140	No
GILBANEPM072921-1364	2	9/9/2021	1769.77	0.0000120	No	0.0000020	No	0.0000057	No
GILBANEPM072921-1365	1	9/9/2021 <sup>2</sup>	555.37	0.0000450	No	0.0000062	No	0.0000150	No
GILBANEPM072921-1366	2	9/9/2021 <sup>2</sup>	564.92	0.0000520	No	0.0000046	No	0.0000074	No
GILBANEPM072921-1367	1	9/14/2021	1714.27	0.0000420	No	0.0000025	No	0.0000058	No
GILBANEPM072921-1368	2	9/14/2021	1783.16	0.0000097	No	0.0000011	No	0.0000099	No
GILBANEPM072921-1369	1	9/15/2021	1715.26	0.0001500	No	0.0000087	No	0.0000170	No
GILBANEPM072921-1370	2	9/15/2021	1770.84	0.0000120	No	0.0000014	No	0.0000100	No
GILBANEPM072921-1371	1	9/16/2021	1725.76	0.0000390	No	0.0000043	No	0.0000092	No
GILBANEPM072921-1372	2	9/16/2021	1505.74	0.0000120	No	0.0000017	No	0.0000037 J+	No
GILBANEPM072921-1373	1	9/16/2021 <sup>2</sup>	601.31	0.0000700	No	0.0000039	No	0.0000110	No
GILBANEPM072921-1374	2	9/16/2021 <sup>2</sup>	622.46	0.0000320	No	0.0000016 J	No	0.0000052	No
GILBANEPM072921-1375	1	9/21/2021	1733.07	0.0003600	No	0.0000054	No	0.0000210	No
GILBANEPM072921-1376	2	9/21/2021	1765.84	0.0000370	No	0.0000023	No	0.0000110	No
GILBANEPM072921-1377	1	9/22/2021	1759.59	0.0000920	No	0.0000041	No	0.0000210	No
GILBANEPM072921-1378	2	9/22/2021	1742.33	0.0000200	No	0.0000033	No	0.0000160	No
GILBANEPM091421-1459	1	9/23/2021	1760.22	0.0000960	No	0.0000028	No	0.0000099	No
GILBANEPM091421-1460	2	9/23/2021	1788.56	0.0000520	No	0.0000015	No	0.0000072	No
GILBANEPM091421-1461	1	9/23/2021 <sup>2</sup>	474.38	0.0003200	No	0.0000049	No	0.0000150	No
GILBANEPM091421-1462	2	9/23/2021 <sup>2</sup>	513.51	0.0000620	No	0.0000036	No	0.0000099	No
GILBANEPM091421-1463	1	9/28/2021	1686.92	0.0003600	No	0.0000620	No	0.0000400	No
GILBANEPM091421-1464	2	9/28/2021	1731.65	0.0000120	No	0.0000009	No	0.0000034	No
GILBANEPM091421-1465	1	9/29/2021	1768.09	0.0003400	No	0.0000500	No	0.0000430	No
GILBANEPM091421-1466	2	9/29/2021	1779.54	0.0000120	No	0.0000016	No	0.0000051	No
GILBANEPM091421-1467	1	9/30/2021	1777.63	0.0002800	No	0.0000300	No	0.0000330	No
GILBANEPM091421-1468	2	9/30/2021	1794.35	0.0003600	No	0.0000044	No	0.0000087	No
GILBANEPM091421-1469	1	9/30/2021 <sup>2</sup>	540.21	0.0002000	No	0.0000190	No	0.0000450	No
GILBANEPM091421-1470	2	9/30/2021 <sup>2</sup>	573.91	0.0000400	No	0.0000120	No	0.0000190	No

**Notes:**

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

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

<sup>3</sup>Generator malfunction

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

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

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

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**ATTACHMENT 5**  
**TOTAL SUSPENDED PARTICULATES**  
**MONITORING RESULTS**

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### Attachment 5: Total Suspended Particulates Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Total Suspended Particulates			
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Basewide HPNS Level (mg/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANETSP070821-1312	1	9/1/2021	1656.83	0.0532342			
GILBANETSP070821-1313	2	9/1/2021	1781.25	0.0443509	-0.009	0.5	No
GILBANETSP070821-1314	1	9/2/2021	1662.81	0.0399925			
GILBANETSP070821-1315	2	9/2/2021	1772.03	0.0466696	0.007	0.5	No
GILBANETSP070821-1316	1	9/2/2021 <sup>2</sup>	556.53	0.0609132			
GILBANETSP070821-1317	2	9/2/2021 <sup>2</sup>	586.71	0.0627226	0.002	0.5	No
GILBANETSP070821-1318	1	9/8/2021	1642.86	0.0425478			
GILBANETSP070821-1319	2	9/8/2021	1695.91	0.0292468	-0.013	0.5	No
GILBANETSP072921-1363	1	9/9/2021	1676.47	0.0261263			
GILBANETSP072921-1364	2	9/9/2021	1779.42	0.0268065	0.001	0.5	No
GILBANETSP072921-1365	1	9/9/2021 <sup>2</sup>	529.20	0.0661376			
GILBANETSP072921-1366	2	9/9/2021 <sup>2</sup>	572.51	0.0406980	-0.025	0.5	No
GILBANETSP072921-1367	1	9/14/2021	1652.64	0.0428405			
GILBANETSP072921-1368	2	9/14/2021	1778.13	0.0438663	0.001	0.5	No
GILBANETSP072921-1369	1	9/15/2021	1641.57	0.0549474			
GILBANETSP072921-1370	2	9/15/2021	1779.74	0.0341061	-0.021	0.5	No
GILBANETSP072921-1371	1	9/16/2021	1658.56	0.0430494			
GILBANETSP072921-1372	2	9/16/2021	1528.71	0.0242034	-0.019	0.5	No
GILBANETSP072921-1373	1	9/16/2021 <sup>2</sup>	575.95	0.0479208			
GILBANETSP072921-1374	2	9/16/2021 <sup>2</sup>	632.82	0.0244935	-0.023	0.5	No
GILBANETSP072921-1375	1	9/21/2021	1687.78	0.0376826			
GILBANETSP072921-1376	2	9/21/2021	1826.66	0.0312592	-0.006	0.5	No
GILBANETSP072921-1377	1	9/22/2021	1655.90	0.0605109			
GILBANETSP072921-1378	2	9/22/2021	1776.72	0.0396236	-0.021	0.5	No
GILBANETSP091421-1459	1	9/23/2021	1684.33	0.0354444			
GILBANETSP091421-1460	2	9/23/2021	1806.11	0.0232544	-0.012	0.5	No
GILBANETSP091421-1461	1	9/23/2021 <sup>2</sup>	452.73	0.0421885			
GILBANETSP091421-1462	2	9/23/2021 <sup>2</sup>	516.35	0.0397018	-0.002	0.5	No
GILBANETSP091421-1463	1	9/28/2021	1610.96	0.0564881			
GILBANETSP091421-1464	2	9/28/2021	1737.60	0.0152509	-0.041	0.5	No
GILBANETSP091421-1465	1	9/29/2021	1651.69	0.0815528			
GILBANETSP091421-1466	2	9/29/2021	1794.86	0.0342088	-0.047	0.5	No
GILBANETSP091421-1467	1	9/30/2021	1658.31	0.0785137			
GILBANETSP091421-1468	2	9/30/2021	1807.09	0.0345860	-0.044	0.5	No
GILBANETSP091421-1469	1	9/30/2021 <sup>2</sup>	512.15	0.0890364			
GILBANETSP091421-1470	2	9/30/2021 <sup>2</sup>	580.96	0.0423437	-0.047	0.5	No

**Notes:**

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

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

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

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

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

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

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Project Information									Effluent Air Concentration				Sampling Period				Color Codes					
Contract / Task Order Number: N62473-17-D-0005 / F4332			Project Title / Location: Parcel E RA HPNS, SF, CA			Gilbane Project Number: J310000400				Alpha	Beta	Air samples collected between 01 Sep 2021 and 30 Sep 2021				Value < 0.1 x Effluent Conc (i.e., < 10%)						
Information effective as of: 06 Oct 2021										Radionuclide	Ra-226	Sr-90					Value > 0.1 x Effluent Conc (i.e., > 10%)					
										Effluent Conc (µCi/ml)	9.E-13	6.E-12					Value > Effluent Conc (i.e., > 100%)					
Sample Collection									Count Information						Sample Results				Initials			
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0267	Perimeter	MSE01	PE09	60	9/1/21 4:50	9/1/21 15:15	625	3.7E+07	C	09/07/21	1	cpm	0.05	4.35	0.1	8.9	1.7E-15	1.1E-13	0.2%	1.8%	DVT	BCS
AS-0268	Perimeter	MSE02	PE10	60	9/1/21 5:00	9/1/21 15:25	625	3.7E+07	C	09/07/21	1	cpm	0.15	3.70	0.4	7.1	5.1E-15	8.5E-14	0.6%	1.4%	DVT	BCS
AS-0269	Perimeter	MSE01	PE09	60	9/2/21 4:50	9/2/21 14:55	605	3.6E+07	C	09/07/21	1	cpm	0.10	4.55	0.3	9.5	3.5E-15	1.2E-13	0.4%	2.0%	DVT	BCS
AS-0270	Perimeter	MSE02	PE10	60	9/2/21 5:00	9/2/21 14:50	590	3.5E+07	C	09/07/21	1	cpm	0.05	4.60	0.1	9.7	1.8E-15	1.2E-13	0.2%	2.0%	DVT	BCS
AS-0271	Perimeter	MSE01	PE10	60	9/7/21 6:40	9/7/21 15:30	530	3.2E+07	C	09/13/21	1	cpm	0.30	3.35	0.8	6.1	1.2E-14	8.7E-14	1.3%	1.4%	DVT	BCS
AS-0272	Perimeter	MSE02	PE09	60	9/7/21 6:50	9/7/21 15:40	530	3.2E+07	C	09/13/21	1	cpm	0.05	4.50	0.1	9.4	2.0E-15	1.3E-13	0.2%	2.2%	DVT	BCS
AS-0273	Perimeter	MSE01	PE10	60	9/8/21 4:55	9/8/21 15:20	625	3.8E+07	C	09/13/21	1	cpm	0.15	4.15	0.4	8.4	5.1E-15	1.0E-13	0.6%	1.7%	DVT	BCS
AS-0274	Perimeter	MSE02	PE09	60	9/8/21 4:44	9/8/21 15:30	646	3.9E+07	C	09/13/21	1	cpm	0.10	4.30	0.3	8.8	3.3E-15	1.0E-13	0.4%	1.7%	DVT	BCS
AS-0275	Perimeter	MSE01	PE09	60	9/9/21 5:00	9/9/21 14:30	570	3.4E+07	C	09/13/21	1	cpm	0.25	3.10	0.7	5.4	9.2E-15	7.1E-14	1.0%	1.2%	DVT	BCS
AS-0276	Perimeter	MSE02	PE10	60	9/9/21 4:50	9/9/21 14:50	600	3.6E+07	C	09/13/21	1	cpm	0.25	4.30	0.7	8.8	8.8E-15	1.1E-13	1.0%	1.8%	DVT	BCS
AS-0277	Perimeter	MSE01	PE09	60	9/13/21 6:40	9/13/21 15:20	520	3.1E+07	C	09/20/21	1	cpm	0.35	3.50	1.0	6.5	1.4E-14	9.4E-14	1.6%	1.6%	BCS	CB
AS-0278	Perimeter	MSE02	PE10	60	9/13/21 6:35	9/13/21 15:35	540	3.2E+07	C	09/20/21	1	cpm	0.05	3.75	0.1	7.2	2.0E-15	1.0E-13	0.2%	1.7%	BCS	CB
AS-0279	Perimeter	MSE01	PE09	60	9/14/21 4:30	9/14/21 15:30	660	4.0E+07	C	09/20/21	1	cpm	0.35	4.50	1.0	9.4	1.1E-14	1.1E-13	1.2%	1.8%	BCS	CB
AS-0280	Perimeter	MSE02	PE10	60	9/14/21 4:40	9/14/21 15:50	670	4.0E+07	C	09/20/21	1	cpm	0.05	3.60	0.1	6.8	1.6E-15	7.6E-14	0.2%	1.3%	BCS	CB
AS-0281	Perimeter	MSE01	PE09	60	9/15/21 4:37	9/15/21 15:30	653	3.9E+07	C	09/20/21	1	cpm	0.10	4.50	0.3	9.4	3.2E-15	1.1E-13	0.4%	1.8%	BCS	CB
AS-0282	Perimeter	MSE02	PE10	60	9/15/21 4:45	9/15/21 15:38	653	3.9E+07	C	09/20/21	1	cpm	0.25	4.40	0.7	9.1	8.1E-15	1.0E-13	0.9%	1.7%	BCS	CB
AS-0283	Perimeter	MSE01	PE09	60	9/16/21 4:35	9/16/21 15:20	645	3.9E+07	C	09/20/21	1	cpm	0.05	4.20	0.1	8.5	1.6E-15	9.9E-14	0.2%	1.7%	BCS	CB
AS-0284	Perimeter	MSE02	PE10	60	9/16/21 4:42	9/16/21 15:15	633	3.8E+07	C	09/20/21	1	cpm	0.10	4.85	0.3	10.4	3.3E-15	1.2E-13	0.4%	2.0%	BCS	CB
AS-0285	Perimeter	MSE01	PE09	60	9/20/21 6:55	9/20/21 16:00	545	3.3E+07	C	09/27/21	1	cpm	0.30	4.95	0.8	10.7	1.2E-14	1.5E-13	1.3%	2.4%	BCS	CB
AS-0286	Perimeter	MSE02	PE10	60	9/20/21 6:45	9/20/21 15:55	550	3.3E+07	C	09/27/21	1	cpm	0.25	3.30	0.7	6.0	9.6E-15	8.1E-14	1.1%	1.4%	BCS	CB
AS-0287	Perimeter	MSE01	PE09	60	9/21/21 4:40	9/21/21 16:00	680	4.1E+07	C	09/27/21	1	cpm	0.15	3.90	0.4	7.7	4.7E-15	8.5E-14	0.5%	1.4%	BCS	CB
AS-0288	Perimeter	MSE02	PE10	60	9/21/21 4:35	9/21/21 15:45	670	4.0E+07	C	09/27/21	1	cpm	0.30	4.90	0.8	10.5	9.4E-15	1.2E-13	1.0%	2.0%	BCS	CB
AS-0289	Perimeter	MSE01	PE09	60	9/22/21 4:40	9/22/21 15:30	650	3.9E+07	C	09/27/21	1	cpm	0.10	3.65	0.3	7.0	3.2E-15	8.0E-14	0.4%	1.3%	BCS	CB
AS-0290	Perimeter	MSE02	PE10	60	9/22/21 4:30	9/22/21 15:30	660	4.0E+07	C	09/27/21	1	cpm	0.30	3.90	0.8	7.7	9.6E-15	8.7E-14	1.1%	1.5%	BCS	CB
AS-0291	Perimeter	MSE01	PE09	60	9/23/21 4:35	9/23/21 14:35	600	3.6E+07	C	09/27/21	1	cpm	0.15	4.10	0.4	8.2	5.3E-15	1.0E-13	0.6%	1.7%	BCS	CB
AS-0292	Perimeter	MSE02	PE10	60	9/23/21 4:40	9/23/21 14:30	590	3.5E+07	C	09/27/21	1	cpm	0.20	5.00	0.6	10.8	7.1E-15	1.4E-13	0.8%	2.3%	BCS	CB
AS-0293	Perimeter	MSE01	PE09	60	9/27/21 6:45	9/27/21 15:42	537	3.2E+07	D	10/04/21	1	cpm	0.30	4.95	0.8	10.6	1.2E-14	1.5E-13	1.3%	2.5%	BCS	CB
AS-0294	Perimeter	MSE02	PE10	60	9/27/21 6:40	9/27/21 15:30	530	3.2E+07	D	10/04/21	1	cpm	0.25	5.45	0.7	12.0	9.9E-15	1.7E-13	1.1%	2.8%	BCS	CB
AS-0295	Perimeter	MSE01	PE09	60	9/28/21 4:50	9/28/21 15:33	643	3.9E+07	D	10/04/21	1	cpm	0.15	4.10	0.4	8.2	4.9E-15	9.5E-14	0.5%	1.6%	BCS	CB
AS-0296	Perimeter	MSE02	PE10	60	9/28/21 4:40	9/28/21 15:20	640	3.8E+07	D	10/04/21	1	cpm	0.20	5.00	0.6	10.7	6.5E-15	1.3E-13	0.7%	2.1%	BCS	CB
AS-0297	Perimeter	MSE01	PE09	60	9/29/21 4:50	9/29/21 15:40	650	3.9E+07	D	10/04/21	1	cpm	0.15	4.60	0.4	9.6	4.8E-15	1.1E-13	0.5%	1.8%	BCS	CB
AS-0298	Perimeter	MSE02	PE10	60	9/29/21 4:45	9/29/21 15:35	650	3.9E+07	D	10/04/21	1	cpm	0.20	4.15	0.6	8.3	6.4E-15	9.6E-14	0.7%	1.6%	BCS	CB
AS-0299	Perimeter	MSE01	PE09	60	9/30/21 4:23	9/30/21 14:20	597	3.6E+07	D	10/04/21	1	cpm	0.50	4.75	1.4	10.0	1.8E-14	1.3E-13	1.9%	2.1%	BCS	CB
AS-0300	Perimeter	MSE02	PE10	60	9/30/21 4:18	9/30/21 14:40	622	3.7E+07	D	10/04/21	1	cpm	0.25	4.90	0.7	10.4	8.4E-15	1.3E-13	0.9%	2.1%	BCS	CB

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# **ATTACHMENT 7**

## **LABORATORY REPORTS**

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# Laboratory Analysis Report

Job ID : 21090388



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

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/03/2021 17:00  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-083121	8/31/2021 15:21	Cassette	21090388.01
MSE02-083121	8/31/2021 15:15	Cassette	21090388.02
MSE01-090121	9/1/2021 15:10	Cassette	21090388.03
MSE02-090121	9/1/2021 15:07	Cassette	21090388.04

[REDACTED]  
Released By: [REDACTED]  
Title: [REDACTED]

Analyst: [REDACTED]

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

ab-q210-0321

9/8/2021



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

Date 9/8/2021

Job ID : 21090388  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21090388.01	MSE01-083121	08/31/2021	Area	2			483	966	100	22.5	28.662	0.011		09/08/21	[REDACTED]
21090388.02	MSE02-083121	08/31/2021	Area	2			487	974	100	22.0	28.025	0.011		09/08/21	[REDACTED]
21090388.03	MSE01-090121	09/01/2021	Area	2			477	954	100	25.0	31.847	0.013		09/08/21	[REDACTED]
21090388.04	MSE02-090121	09/01/2021	Area	2			487	974	100	18.5	23.567	0.009		09/08/21	[REDACTED]

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



# Sample Condition Checklist

A&B JobID : <b>21090388</b>	Date Received : <b>09/03/2021</b>	Time Received : <b>5:00PM</b>																										
Client Name : <b>Gilbane</b>																												
Temperature : <b>22.6°C</b>	Sample pH : <b>N/A</b>																											
Thermometer ID : <b>IR1</b>	pH Paper ID : <b>N/A</b>																											
Perservative :																												
<b>Check Points</b>																												
<b>1.</b>	<b>Cooler seal present and signed.</b>	X																										
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X																									
<b>3.</b>	<b>If yes, ice in cooler.</b>			X																								
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X																										
<b>5.</b>	<b>C-O-C signed and dated.</b>	X																										
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X																									
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>	X																										
<b>8.</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>	X																										
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>			X																								
<b>11.</b>	<b>All samples were logged or labeled.</b>	X																										
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>	X																										
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X																										
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X																										
<b>15.</b>	<b>Samples were received within the hold time.</b>	X																										
<b>16.</b>	<b>VOA vials completely filled.</b>			X																								
<b>17.</b>	<b>Sample accepted.</b>	X																										
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X																								
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>																												
No cooler was received, SX's received in box with custody seal. -CH 09/07/21																												

Received by : ██████████

Check in by/date : ██████████ / 09/07/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400  
 Project Manager: [REDACTED]  
 Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: A&B Labs Date: 9/02/2021  
 Address: 10100 East Fwy Ste. 100 Contact Name: [REDACTED]  
Houston TX 77029 Page: 1 of 1

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative: None	Container Type: Filter		
MSE01-083121 <i>01A</i>	8/31/2021	1521	NA	NA	1	AA	X				483
MSE02-083121 <i>02A</i>	8/31/2021	1515	NA	NA	1	AA	X				487
MSE01-090121 <i>03A</i>	9/01/2021	1510	NA	NA	1	AA	X				477
MSE02-090121 <i>04A</i>	9/01/2021	1507	NA	NA	1	AA	X				487

Job ID: 21090388



09/03/2021 Gilbane ACH

*22.6°C  
IPI CAL*

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

Sample: [REDACTED]  
 Relinquished By/Affiliation: [REDACTED]  
 Courier/Airbill No.: FedEx/ 7747 1342 5439  

Date:	Time:	Received By/ Affiliation:	Date:	Time:
<i>9/2/21</i>	<i>1600</i>	<i>[REDACTED]</i>	<i>9/2/21</i>	<i>1600</i>
<i>9/2/21</i>	<i>1700</i>	<i>[REDACTED]</i>	<i>9/3/21</i>	<i>1700</i>

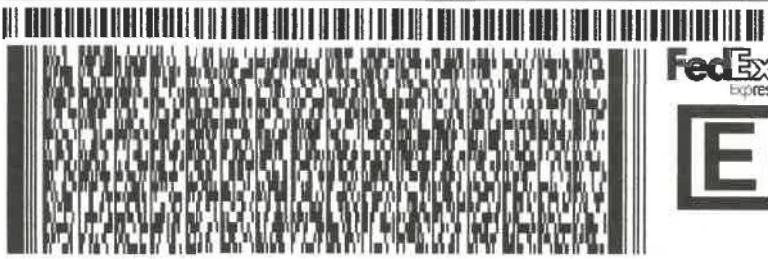
ORIGIN ID: ICCA (925) 250-6097  
GILBANE  
200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 02SEP21  
ACTWGT: 1.00 LB  
CAD: 102700259/NET4400  
BILL SENDER

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

REF: J310000400 B:00.0908000

INV PO: DEPT:



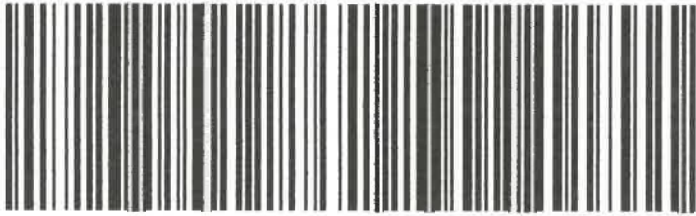
56D.J3/169MFE4A

TRK# 7747 1342 5439  
0201

FRI - 03 SEP 4:30P  
STANDARD OVERNIGHT

**UL HBYA**

TX-US **77029**  
**IAH**



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# Laboratory Analysis Report

Job ID : 21090645



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: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/08/2021 16:12  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-090221	9/2/2021 14:31	Cassette	21090645.01
MSE02-090221	9/2/2021 14:21	Cassette	21090645.02

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

9/15/2021





**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 9/15/2021

Job ID : 21090645  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21090645.01	MSE01-090221	09/02/2021	Area	2			456	912	100	13.0	16.561	0.007		09/15/21	Habedi
21090645.02	MSE02-090221	09/02/2021	Area	2			457	914	100	12.0	15.287	0.006		09/15/21	Habedi

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



## Sample Condition Checklist

A&B JobID : <b>21090645</b>	Date Received : <b>09/08/2021</b>	Time Received : <b>4:12PM</b>		
Client Name : <b>Gilbane</b>				
Temperature : <b>22.6°C</b>	Sample pH : <b>N/A</b>			
Thermometer ID : <b>IR1</b>	pH Paper ID : <b>N/A</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>			X
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X

**Comments : Include actions taken to resolve discrepancies/problem:**

Samples received in a box with a custody seal. -ANA

Received by : ██████████

Check in by/date : ██████████ 09/09/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 9/07/2021  
 Project Manager: [REDACTED] Address: 10100 East Fwy Ste. 100 Contact Name: [REDACTED] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Total Time (min)	Flow Rate = 2 L/min	Special Instructions/Comments
							Asbestos	Preservative:	Container Type:			
							None	Filter				
MSE01-090221 <b>DIA</b>	9/02/2021	1431	NA	NA	1	AA	X			456	<b>01A</b>	
MSE02-090221 <b>02A</b>	9/02/2021	1421	NA	NA	1	AA	X			457	<b>02A</b>	

**Job ID: 21090645**  
  
 09/08/2021 Gilbane ACH

Sampled By: <u>[REDACTED]</u>	Sampler: <u>[REDACTED]</u>	Courier/Airbill No.: FedEx/ 2834 0951 0108				
Signature: <u>[REDACTED]</u>	Relinquished By/Affiliation: <u>[REDACTED]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>N/A</u>	<u>Gilbane</u>	<u>9-7-21</u>	<u>1436</u>	<u>FedEx</u>	<u>9-7-21</u>	<u>1436</u>
Send Results to: <u>[REDACTED]</u>	<u>FED EX</u>	<u>9-8-21</u>		<u>[REDACTED]</u>	<u>9-8-21</u>	<u>1612</u>
Turnaround Time: <u>Standard</u>						

*Handwritten notes:*  
 22.6°  
 IRI  
 CA

ORIGIN ID: JCCA (925) 250-6097  
SILBAINE  
200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 07SEP21  
ACTWGT: 1.00 LB  
CAD: 102700259/INET4400  
BILL SENDER

TO  
A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J310000400 B 00 0908000

INV  
PO

DEPT



56D.J3169AFE4A

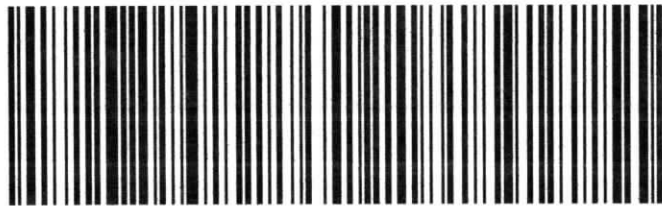
WED - 08 SEP 4:30P

STANDARD OVERNIGHT

TRK# 2834 0951 0108  
0201

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77029  
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# Laboratory Analysis Report

Job ID : 21090886



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: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/10/2021 16:22  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-090721	9/7/2021 16:08	Cassette	21090886.01
MSE02-090721	9/7/2021 16:05	Cassette	21090886.02
MSE01-090821	9/8/2021 15:21	Cassette	21090886.03
MSE02-090821	9/8/2021 15:33	Cassette	21090886.04

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

9/15/2021



**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 9/15/2021

Job ID : 21090886  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21090886.01	MSE01-090721	09/07/2021	Area	2			509	1018	100	18.5	23.567	0.009		09/15/21	Habedi
21090886.02	MSE02-090721	09/07/2021	Area	2			523	1046	100	15.5	19.745	0.007		09/15/21	Habedi
21090886.03	MSE01-090821	09/08/2021	Area	2			495	990	100	12.5	15.924	0.006		09/15/21	Habedi
21090886.04	MSE02-090821	09/08/2021	Area	2			517	1034	100	13.0	16.561	0.006		09/15/21	Habedi

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



# Sample Condition Checklist

A&B JobID : <b>21090886</b>	Date Received : <b>09/10/2021</b>	Time Received : <b>4:22PM</b>		
Client Name : <b>Gilbane</b>				
Temperature : <b>31.8°C</b>	Sample pH : <b>N/A</b>			
Thermometer ID : <b>OR1</b>	pH Paper ID : <b>N/A</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X

**Comments : Include actions taken to resolve discrepancies/problem:**  
 Samples received in a box with a custody seal. -ANA 9-10-21.

Received by : ██████████

Check in by/date : ██████████ / 09/10/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs Date: 09/09/2021  
 Project Manager: [REDACTED] Address: 10100 East Fwy Ste. 100 Contact Name: [REDACTED] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Total Time (min)	Flow Rate = 2 L/min	Special Instructions/Comments
							Asbestos	Preservative:			
								* Job ID: 21090886  09/10/2021 Gilbane ACH			
							None	Filter			
MSE01-090721	01A	9/7/2021	1608	NA	NA	1	AA	X			509
MSE02-090721	02A	9/7/2021	1605	NA	NA	1	AA	X			523
MSE01-090821	03A	9/8/2021	1521	NA	NA	1	AA	X			495
MSE02-090821	04A	9/8/2021	1533	NA	NA	1	AA	X			517

31.8 °C 121  
 93 on box

Sampled By: <u>[REDACTED]</u>	Sampler: <u>[REDACTED]</u>	Courier/Airbill No.: FedEx/ 7747 5746 2660				
Signature: <u>[REDACTED]</u>	Relinquished by/ Affiliation: <u>[REDACTED]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[REDACTED]</u>	9/9/21	1600	Fed Ex <u>[REDACTED]</u>	9/9/21	1600
Send Results to: <u>[REDACTED]</u>					9-10-21	1422
Turnaround Time: <u>Standard</u>						



ORIGIN ID: ICCA (925) 250-6097  
GILBANE  
200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 09SEP21  
ACTWGT: 1.00 LB  
CAD: 102700259/NET4400  
BILL SENDER

A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J310000100 B 00 0703000

INV PO DEPT



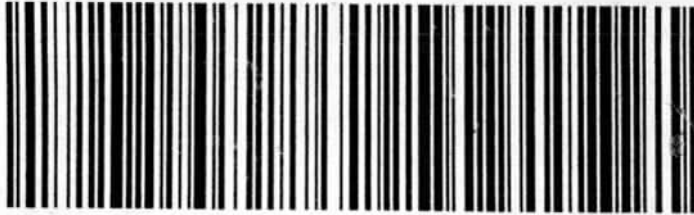
56DJB169AFE4A

TRK# 7747 5746 2660  
0201

FRI - 10 SEP 4:30P  
STANDARD OVERNIGHT

UL HBYA

77029  
TX-US IAH



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ONLY TO EI

CUSTODY SEAL

Person Collecting Sample K-1 (signature) Sample No. \_\_\_\_\_  
Date Collected 9/9/21 Time Collected \_\_\_\_\_

RE SEAL

# Laboratory Analysis Report

Job ID : 21091458



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

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/16/2021 09:47  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-090921	9/9/2021 14:38	Cassette	21091458.01
MSE02-090921	9/9/2021 14:30	Cassette	21091458.02
MSE01-091321	9/13/2021 15:39	Cassette	21091458.03
MSE02-091321	9/13/2021 15:30	Cassette	21091458.04

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

9/23/2021



**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 9/23/2021

Job ID : 21091458  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21091458.01	MSE01-090921	09/09/2021	Area	2			457	914	100	22.0	28.025	0.012		09/23/21	Habedi
21091458.02	MSE02-090921	09/09/2021	Area	2			465	930	99	27.0	34.742	0.014		09/23/21	Habedi
21091458.03	MSE01-091321	09/13/2021	Area	2			504	1008	100	16.5	21.019	0.008		09/23/21	Habedi
21091458.04	MSE02-091321	09/13/2021	Area	2			504	1008	100	17.0	21.656	0.008		09/23/21	Habedi

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



## Sample Condition Checklist

A&B JobID : <b>21091458</b>	Date Received : <b>09/16/2021</b>	Time Received : <b>9:47AM</b>		
Client Name : <b>Gilbane</b>				
Temperature :	Sample pH :			
Thermometer ID :	pH Paper ID :			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix:    Water    Soil    Liquid    Sludge    Solid    Cassette    Tube    Bulk    Badge    Food    Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

**Comments : Include actions taken to resolve discrepancies/problem:**

No cooler was received, however SX were received inside box with custody seal. -CH 09/17/21

Received by : ██████████

Check in by/date : ██████████ / 09/17/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs Date: 09/14/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Total Time (min)	Flow Rate = 2 L/min	Special Instructions/Comments
							Asbestos	Preservative:			
							None	Container Type:			
							Filter				
MSE01-090921	01A	9/9/2021	1438	NA	NA	1	AA	X			457
MSE02-090921	02A	9/9/2021	1430	NA	NA	1	AA	X			465
MSE01-091321	03A	9/13/2021	1539	NA	NA	1	AA	X			504
MSE02-091321	04A	9/13/2021	1530	NA	NA	1	AA	X			504

Job ID: 21091458



09/16/2021 Gilbane ACH

Sampled By: [Redacted] Sample: [Redacted] Courier/Airbill No.: FedEx/ 7747 9580 6261

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] / Gilbane Date: 9/14/21 Time: 1600 Received By/ Affiliation: [Redacted] Date: 9/14/21 Time: 1600

Special Instructions: None [Redacted] / FedEx Date: 9/16/21 Time: 0947 [Redacted] Date: 9/16/21 Time: 0947

Send Results to: [Redacted] 21.6  
IR1  
CA

Turnaround Time: Standard

ORIGIN ID: JCCA (925) 250-6097  
GILBANE  
200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 14SEP21  
ACTWGT: 1.00 LB  
CAD: 102700259/INET4400  
BILL SENDER

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

**HOUSTON TX 77029**

REF: J310000400 B.00.0908000

INV. PO DEPT



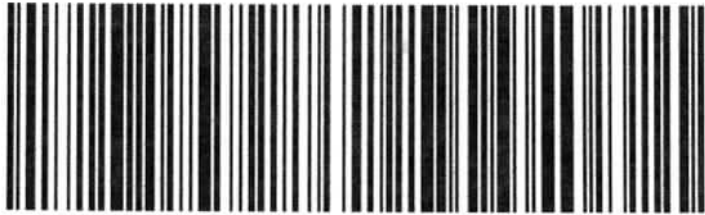
560J3169A/E4A

WED - 15 SEP 4:30P  
STANDARD OVERNIGHT

TRK# 7747 9580 6261  
0201

**UL HBYA**

77029  
TX-US IAH



Date: 9/14/21  
Signature: [Handwritten Signature]

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# Laboratory Analysis Report

Job ID : 21091481



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

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/17/2021 15:28  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-091421	9/14/2021 15:45	Cassette	21091481.01
MSE02-091421	9/14/2021 15:49	Cassette	21091481.02
MSE01-091521	9/15/2021 15:42	Cassette	21091481.03
MSE02-091521	9/15/2021 15:30	Cassette	21091481.04

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

9/24/2021



**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 9/24/2021

Job ID : 21091481  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21091481.01	MSE01-091421	09/14/2021	Area	2			522	1044	100	19.0	24.204	0.009		09/23/21	Habedi
21091481.02	MSE02-091421	09/14/2021	Area	2			529	1058	100	17.0	21.656	0.008		09/23/21	Habedi
21091481.03	MSE01-091521	09/15/2021	Area	2			526	1052	100	19.00	24.204	0.009		09/23/21	Habedi
21091481.04	MSE02-091521	09/15/2021	Area	2			505	1010	100	15.0	19.108	0.007		09/23/21	Habedi

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





## Sample Condition Checklist

A&B JobID : <b>21091481</b>	Date Received : <b>09/17/2021</b>	Time Received : <b>3:28PM</b>		
Client Name : <b>Gilbane</b>				
Temperature : <b>24.6°C</b>	Sample pH : <b>N/A</b>			
Thermometer ID : <b>IR1</b>	pH Paper ID : <b>N/A</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X

**Comments : Include actions taken to resolve discrepancies/problem:**

No cooler was received, however SX were received inside box with custody seal. -CH 09/17/21

Received by : ██████████

Check in by/date : ██████████ / 09/17/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs Date: 09/16/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Total Time (min)
							Asbestos	Preservative:	
							None	Flow Rate = 2 L/min	
							Container Type: Filter	Special Instructions/Comments	
MSE01-091421 <i>O1A</i>	9/14/2021	1545	NA	NA	1	AA	X		522
MSE02-091421 <i>O2A</i>	9/14/2021	1549	NA	NA	1	AA	X		529
MSE01-091521 <i>O3A</i>	9/15/2021	1542	NA	NA	1	AA	X		526
MSE02-091521 <i>O4A</i>	9/15/2021	1530	NA	NA	1	AA	X		505

Job ID: 21091481



09/16/2021 Gilbane ACH

*24.6 ce*  
*IRI*  
*CA*

Sampled By: <u>[Redacted]</u>	Sample: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 2837 6549 7366	
Signature: <u>[Redacted]</u>	Relinquished By: <u>[Redacted]</u>	Date: <u>9/16/21 1400</u>	Received By/ Affiliation: <u>[Redacted]</u>
Special Instructions: <u>NA</u>		Date: <u>9/17/21 1528</u>	Date: <u>9/16/21 1400</u>
Send Results to: <u>[Redacted]</u>			Date: <u>9/17/21 1528</u>
Turnaround Time: <u>Standard</u>			

ORIGIN ID: JCCA (925) 250-6097  
200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

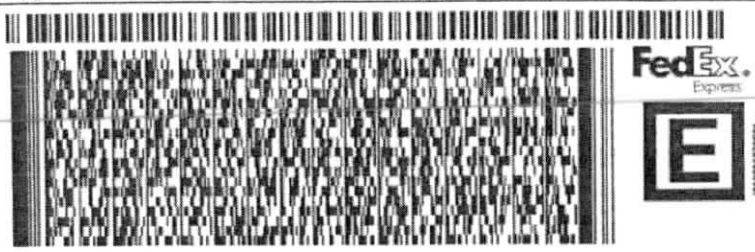
SHIP DATE: 18SEP21  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4400  
BILL SENDER

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

**HOUSTON TX 77029**

REF J310000400 B 00 0908000

TX PO DEPT



TRK# 2837 6549 7366  
0201

FRI - 17 SEP 4:30P  
STANDARD OVERNIGHT

**UL HBYA**

77029  
TX-US IAH



56D3J1E9AFEA4

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# Laboratory Analysis Report

Job ID : 21091911



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: Gilbane Total Number of Pages: 4  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/23/2021 09:50  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-091621	9/16/2021 15:42	Cassette	21091911.01
MSE02-091621	9/16/2021 15:45	Cassette	21091911.02
MSE01-092021	9/20/2021 16:14	Cassette	21091911.03
MSE02-092021	9/20/2021 16:22	Cassette	21091911.04

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

9/30/2021



**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 9/30/2021

Job ID : 21091911  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21091911.01	MSE01-091621	09/16/2021	Area	2			522	1044	100	12.5	15.924	0.006		09/30/21	Habedi
21091911.02	MSE02-091621	09/16/2021	Area	2			530	1060	100	12.0	15.287	0.006		09/30/21	Habedi
21091911.03	MSE01-092021	09/20/2021	Area	2			510	1020	100	10.0	12.739	0.005		09/30/21	Habedi
21091911.04	MSE02-092021	09/20/2021	Area	2			543	1086	100	13.5	17.197	0.006		09/30/21	Habedi

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



# Sample Condition Checklist

A&B JobID : <b>21091911</b>	Date Received : <b>09/23/2021</b>	Time Received : <b>9:50AM</b>		
Client Name : <b>Gilbane</b>				
Temperature : <b>20.5°C</b>	Sample pH : <b>N/A</b>			
Thermometer ID : <b>IR1</b>	pH Paper ID : <b>N/A</b>			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix:    Water    Soil    Liquid    Sludge    Solid    Cassette    Tube    Bulk    Badge    Food    Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

**Comments : Include actions taken to resolve discrepancies/problem:**  
 No cooler, however SX were received in box with custody seal. -CH 09/23/21

Received by : ██████████

Check in by/date : ██████████ / 09/23/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs Date: 09/21/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Total Time (min)	Flow Rate = 2 L/min	Special Instructions/Comments
							Asbestos	Preservative:	Container Type:			
							None					
MSE01-091621 <i>01A</i>	9/16/2021	1542	NA	NA	1	AA	X				522	
MSE02-091621 <i>02A</i>	9/16/2021	1545	NA	NA	1	AA	X				530	
MSE01-092021 <i>03A</i>	9/20/2021	1614	NA	NA	1	AA	X				510	
MSE02-092021 <i>04A</i>	9/20/2021	1622	NA	NA	1	AA	X				543	

Job ID: 21091911



09/23/2021 Gilbane ACH

*20.5C  
IP1*

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 2839 7313 4654				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted] / Gilbane</u>	Date: <u>9/21/21</u>	Time: <u>5:00</u>	Received By/ Affiliation: <u>[Redacted] / FedEx</u>	Date: <u>9/21/21</u>	Time: <u>15:00</u>
Special Instructions: <u>None</u>	<u>FedEx</u>				<u>9/23/21</u>	<u>09:50</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

# Laboratory Analysis Report

Job ID : 21092170



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

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/27/2021 12:32  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-092121	9/21/2021 15:07	Cassette	21092170.01
MSE02-092121	9/21/2021 15:10	Cassette	21092170.02
MSE01-092221	9/22/2021 15:21	Cassette	21092170.03
MSE02-092221	9/22/2021 15:25	Cassette	21092170.04

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

10/1/2021





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

Date 10/1/2021

Job ID : 21092170  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21092170.01	MSE01-092121	09/21/2021	Area	2			456	912	100	21.0	26.752	0.011		09/30/21	Habedi
21092170.02	MSE02-092121	09/21/2021	Area	2			472	944	100	16.0	20.382	0.008		09/30/21	Habedi
21092170.03	MSE01-092221	09/22/2021	Area	2			500	1000	100	11.5	14.650	0.006		09/30/21	Habedi
21092170.04	MSE02-092221	09/22/2021	Area	2			509	1018	100	16.5	21.019	0.008		09/30/21	Habedi

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



## Sample Condition Checklist

A&B JobID : <b>21092170</b>	Date Received : <b>09/27/2021</b>	Time Received : <b>12:32PM</b>		
Client Name : <b>Gilbane</b>				
Temperature : <b>24.6°C</b>	Sample pH : <b>N/A</b>			
Thermometer ID : <b>IR1</b>	pH Paper ID : <b>N/A</b>			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix:    Water    Soil    Liquid    Sludge    Solid    Cassette    Tube    Bulk    Badge    Food    Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

**Comments : Include actions taken to resolve discrepancies/problem:**  
 No cooler was received, however SX were received inside box with custody seal. -CH 09/27/21

Received by : ██████████

Check in by/date : ██████████ / 09/27/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 09/23/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Total Time (min)
							Asbestos	Preservative:	
MSE01-092121	9/21/2021	1507	NA	NA	1	AA	X		456
MSE02-092121	9/21/2021	1510	NA	NA	1	AA	X		472
MSE01-092221	9/22/2021	1521	NA	NA	1	AA	X		500
MSE02-092221	9/22/2021	1525	NA	NA	1	AA	X		509

**Job ID: 21092170**



09/27/2021 Gilbane ACH

Flow Rate = 2 L/min  
Special Instructions/Comments

24.6 °C  
SRI CA  
\$

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 2840 8242 6102

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 9/23/21 Time: 1400 Received By/ Affiliation: [Redacted] Date: 9/23/21 Time: 1400

Special Instructions: None Relinquished By/Affiliation: FedEx Date: 9/27/21 Time: 1232 Received By/ Affiliation: [Redacted] Date: 9/27/21 Time: 1232

Send Results to: [Redacted]

Turnaround Time: Standard

ORIGIN ID: JCCA (925) 250-6097

SHIP DATE: 23SEP21  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4400

200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

BILL SENDER

TO [REDACTED]

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

56DJB169AFE4A

**HOUSTON TX 77029**

REF: J310000400 B 00.0908000

INV PO DEPT



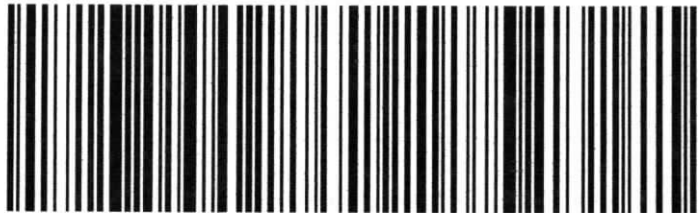
**FRI - 24 SEP 4:30P**

**STANDARD OVERNIGHT**

TRK# 2840 8242 6102  
0201

**UL HBYA**

77029  
TX-US IAH



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# Laboratory Analysis Report

Job ID : 21092458



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

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 09/29/2021 15:52  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-092321	9/23/2021 14:00	Cassette	21092458.01
MSE02-092321	9/23/2021 14:08	Cassette	21092458.02
MSE01-092721	9/27/2021 15:15	Cassette	21092458.03
MSE02-092721	9/27/2021 15:45	Cassette	21092458.04

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

10/6/2021



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

Date 10/6/2021

Job ID : 21092458  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21092458.01	MSE01-092321	09/23/2021	Area	2			390	780	100	10.0	12.739	0.006		10/06/21	Habedi
21092458.02	MSE02-092321	09/23/2021	Area	2			413	826	100	11.0	14.013	0.007		10/06/21	Habedi
21092458.03	MSE01-092721	09/27/2021	Area	2			455	910	100	16.0	20.382	0.009		10/06/21	Habedi
21092458.04	MSE02-092721	09/27/2021	Area	2			500	1000	100	14.5	18.471	0.007		10/06/21	Habedi

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



# Sample Condition Checklist

A&B JobID : <b>21092458</b>	Date Received : <b>09/29/2021</b>	Time Received : <b>3:52PM</b>
Client Name : <b>Gilbane</b>		
Temperature : <b>23.6°C</b>	Sample pH : <b>N/A</b>	
Thermometer ID : <b>IR1</b>	pH Paper ID : <b>N/A</b>	
Perservative :		
	<b>Check Points</b>	<b>Yes No N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X
<b>2.</b>	<b>Sample(s) in a cooler.</b>	X
<b>3.</b>	<b>If yes, ice in cooler.</b>	X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X
<b>5.</b>	<b>C-O-C signed and dated.</b>	X
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>	X
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>	X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X
<b>16.</b>	<b>VOA vials completely filled.</b>	X
<b>17.</b>	<b>Sample accepted.</b>	X
<b>18.</b>	<b>Has client been contacted about sub-out</b>	X

**Comments : Include actions taken to resolve discrepancies/problem:**  
 No cooler was received, however SX came in box with C.S. 03A C.T on cassette=15:45. -CH 09/29/21

Received by : ██████████

Check in by/date : ██████████ / 09/29/2021



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 09/28/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Total Time (min)
							Asbestos	Preservative:	Container Type:	
							None	Filter		Flow Rate = 2 L/min
MSE01-092321 <i>01A</i>	9/23/2021	1400	NA	NA	1	AA	X			390
MSE02-092321 <i>02A</i>	9/23/2021	1408	NA	NA	1	AA	X			413
MSE01-092721 <i>03A</i>	9/27/2021	1515	NA	NA	1	AA	X			455
MSE02-092721 <i>04A</i>	9/27/2021	1545	NA	NA	1	AA	X			500

**Job ID:21092458**



09/28/2021 Gilbane ACH

*23.6*  
*IRI*  
*CA*  
*[Signature]*

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7748 2237 8816			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date: <u>9/28/21</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>[Redacted]</u>	Date: <u>9/28/21</u>
Special Instructions: <u>None</u>	<u>[Redacted]</u>	<u>9/29/21</u>	<u>1552</u>	<u>[Redacted]</u>	<u>9/29/21</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					



ORIGIN: LCCA (925) 250-8097

210 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

BILL SENDER

SHIP DATE: 28SEP21  
ACTWGHT: 1.00 LB  
CAD: 254128867/NET/4400

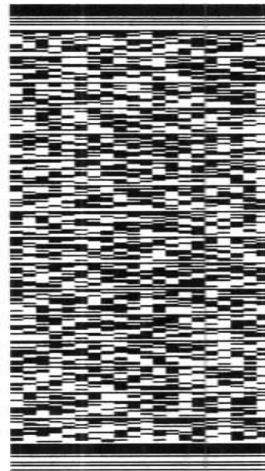
**A & B LABS**  
10100 EAST FREEMWAY, SUITE 100

**HOUSTON TX 77029**

REF: J310000400 B 00 0000000

DEPT

56DJ31169A/FE4A



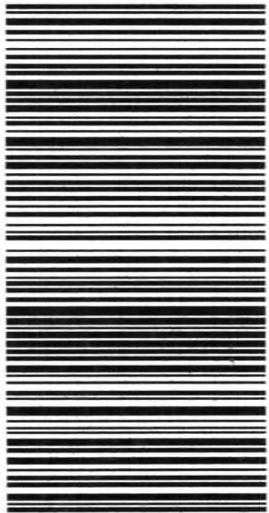
TRK# 7748 2237 8816  
0201

WED - 29 SEP 4:30P  
STANDARD OVERNIGHT

77029

**ULHBYA**

TX:US IAH



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**Custody Seal**

DATE

SIGNATURE

1495335  
Environment Testing  
TestAmerica

eurofins

eurofins

Environment Testing  
TestAmerica

1495335

27.6

# Laboratory Analysis Report

Job ID : 21100181



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

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 10/04/2021 14:20  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-092821	9/28/2021 15:31	Cassette	21100181.01
MSE02-092821	9/28/2021 15:40	Cassette	21100181.02
MSE01-092921	9/29/2021 15:35	Cassette	21100181.03
MSE02-092921	9/29/2021 15:45	Cassette	21100181.04

Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

10/11/2021



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

Date 10/11/202

Job ID : 21100181  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21100181.01	MSE01-092821	09/28/2021	Area	2			516	1032	100	23.5	29.936	0.011		10/11/21	Habedi
21100181.02	MSE02-092821	09/28/2021	Area	2			535	1070	100	15.0	19.108	0.007		10/11/21	Habedi
21100181.03	MSE01-092921	09/29/2021	Area	2			515	1030	100	18.0	22.930	0.009		10/11/21	Habedi
21100181.04	MSE02-092921	09/29/2021	Area	2			530	1060	100	16.0	20.382	0.007		10/11/21	Habedi

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



## Sample Condition Checklist

A&B JobID : <b>21100181</b>	Date Received : <b>10/04/2021</b>	Time Received : <b>2:20PM</b>		
Client Name : <b>Gilbane</b>				
Temperature : <b>21°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR1</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>	X		
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X

**Comments : Include actions taken to resolve discrepancies/problem:**

No cooler was received; however, sample was received in a box with a custody seal.

Received by : ██████████

Check in by/date : ██████████ / 10/04/2021

ab-s005-0321

Event ID: Air Monitoring

Job ID: 21100181



COC# KT093021ASB



10/04/2021

Gilbane

ACH

# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs Date: 09/30/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Total Time (min)	Flow Rate = 2 L/min	Special Instructions/Comments
							Asbestos	Preservative:			
							None				
							Container Type:				
							Filter				
01A MSE01-092821	9/28/2021	1531	NA	NA	1	AA	X				516
02A MSE02-092821	9/28/2021	1540	NA	NA	1	AA	X				535
03A MSE01-092921	9/29/2021	1535	NA	NA	1	AA	X				515
04A MSE02-092921	9/29/2021	1545	NA	NA	1	AA	X				530

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7748 4806 1570

Signature: [Redacted] Relinquished By/Annulation: [Redacted] Date: 9/30/21 Time: 1500 Received By/ Affiliation: [Redacted] Date: 9/30/21 Time: 1500

Special Instructions: None FedEx [Redacted] 161420 1420

Send Results to: [Redacted]

Turnaround Time: Standard

210C

ORIGIN ID: JCCA (925) 250-6097

200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 30SEP21  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4400

BILL SENDER

TO [REDACTED]

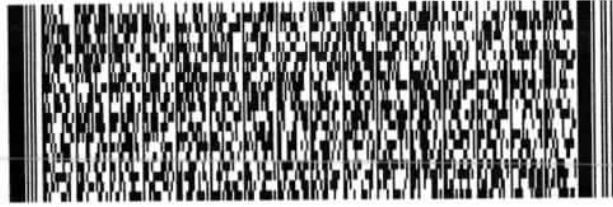
**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF: J31000.400.00.18.04

INV  
PO

DEPT



FedEx  
Express



JT1212107801JW

56DU31169AFE4A

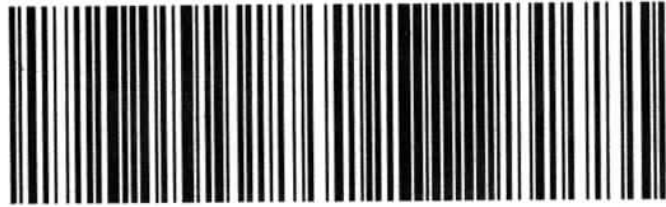
FRI - 01 OCT 4:30P

STANDARD OVERNIGHT

TRK# 7748 4806 1570  
0201

**UL HBYA**

TX-US 77029  
IAH



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# Laboratory Analysis Report

Job ID : 21100533



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: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 10/07/2021 09:37  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-093021	9/30/2021 15:05	Cassette	21100533.01
MSE02-093021	9/30/2021 14:55	Cassette	21100533.02
MSE01-100421	10/4/2021 15:30	Cassette	21100533.03
MSE02-100421	10/4/2021 15:35	Cassette	21100533.04

[REDACTED]  
Released By: [REDACTED]  
Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

10/14/2021



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

Date 10/14/202

Job ID : 21100533  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane		Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21100533.01	MSE01-093021	09/30/2021	Area	2			460	920	100	11.5	14.650	0.006		10/14/21	Habedi
21100533.02	MSE02-093021	09/30/2021	Area	2			460	920	100	16.5	21.019	0.009		10/14/21	Habedi
21100533.03	MSE01-100421	10/04/2021	Area	2			500	1000	100	16.0	20.382	0.008		10/14/21	Habedi
21100533.04	MSE02-100421	10/04/2021	Area	2			515	1030	100	22.0	28.025	0.010		10/14/21	Habedi

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





## Sample Condition Checklist

A&B JobID : <b>21100533</b>	Date Received : <b>10/07/2021</b>	Time Received : <b>9:37AM</b>		
Client Name : <b>Gilbane</b>				
Temperature : <b>21.1-0.1CF=21.1°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR2</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples were received in appropriate container(s)</b>	X		
<b>10.</b>	<b>Sample(s) were received with Proper preservative</b>			X
<b>11.</b>	<b>All samples were tagged or labeled.</b>	X		
<b>12.</b>	<b>Sample ID labels match C-O-C ID's.</b>		X	
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X		
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X		
<b>15.</b>	<b>Samples were received with in the hold time.</b>	X		
<b>16.</b>	<b>VOA vials completely filled.</b>			X
<b>17.</b>	<b>Sample accepted.</b>	X		
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X

**Comments : Include actions taken to resolve discrepancies/problem:**  
 No cooler was received; however, sample came in a box with a custody seal. 01A C.T on cassette '0725' 002A C.T on cassette '0715'. -CH 10/07/21

Received by : ██████████

Check in by/date : ██████████ 10/07/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 10/05/2021  
 Project Manager: [REDACTED] Address: 10100 East Fwy Ste. 100 Contact Name: [REDACTED] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Total Time (min)	Flow Rate = 2 L/min	Special Instructions/Comments
							Asbestos	Preservative:	Container Type:			
							None					
MSE01-093021	9/30/2021	1505	NA	NA	1	AA	X				460	01A
MSE02-093021	9/30/2021	1455	NA	NA	1	AA	X				460	02A
MSE01-100421	10/04/2021	1530	NA	NA	1	AA	X				500	03A
MSE02-100421	10/04/2021	1535	NA	NA	1	AA	X				515	04A

Job ID: 21100533



10/07/2021

Gilbane

ACH

Sampled By: <u>[REDACTED]</u>	Sampler: <u>[REDACTED]</u>	Courier/Airbill No.: FedEx/ 7748 8590 5660	
Signature: <u>[REDACTED]</u>	Relinquished By/Affiliation: <u>[REDACTED]</u>	Date: <u>10/5/21</u>	Time: <u>16:00</u>
Special Instructions: <u>None</u>	<u>[REDACTED] / Gilbane</u>	Date: <u>10-7-21</u>	Time: <u>09:57</u>
Send Results to: <u>[REDACTED]</u>	<u>FEDEX</u>	Date: <u>10-7-21</u>	Time: <u>09:57</u>
Turnaround Time: <u>Standard</u>			

TEMP: 21.2 - 0.1 = 21.1 °C ID: 7BZ

ORIGIN ID: JCCA (925) 250-6097  
 200 FISHER STREET  
 SAN FRANCISCO, CA 94124  
 UNITED STATES US

SHIP DATE: 05OCT21  
 ACTWGT: 1.00 LB  
 CAD: 254128867/NET4400

BILL SENDER

TO: [REDACTED]  
**A & B LABS**  
**10100 EAST FREEWAY, SUITE 100**  
**HOUSTON TX 77029**  
 REF J31000.400.00.18.04  
 INVT PO DEPT

55D.L20776FE1A



TRK# 7748 8590 5660  
 0201

WED - 06 OCT 4:30P  
 STANDARD OVERNIGHT

**UL HBYA** TX-US **77029**  
**IAH**

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## ANALYTICAL REPORT

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

Laboratory Job ID: 320-78479-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2  
Revision: 1

For:  
Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]  
[REDACTED]

---

Authorized for release by:  
10/14/2021 5:20:50 PM  
[REDACTED] Senior Project Manager  
(916)374-4362  
[Linda.Laver@Eurofinset.com](mailto:Linda.Laver@Eurofinset.com)  
Designee for  
[REDACTED] Project Manager I  
(916)374-4414  
[Laura.Turpen@Eurofinset.com](mailto:Laura.Turpen@Eurofinset.com)

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

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



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# Definitions/Glossary

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

Job ID: 320-78479-1

## Glossary

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

# Case Narrative

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

Job ID: 320-78479-1

---

**Job ID: 320-78479-1**

---

**Laboratory: Eurofins TestAmerica, Sacramento**

---

**Narrative**

**Job Narrative  
320-78479-1 Rev(1)**

**Revision 1**

The answer to "Sample custody seals, if present, are intact" has been corrected from "True" to "NA" on the Login Sample Receipt Checklist.

**Receipt**

The samples were received on 9/3/2021 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 17.3° C.

**Metals**

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

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

# Detection Summary

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

Job ID: 320-78479-1

## Client Sample ID: GILBANEPM070821-1312

## Lab Sample ID: 320-78479-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0043		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.053		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	44		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP070821-1312

## Lab Sample ID: 320-78479-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	53.2342		0.3018	0.3018	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM070821-1313

## Lab Sample ID: 320-78479-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00076		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.16		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0022		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.7		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP070821-1313

## Lab Sample ID: 320-78479-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	44.3509		0.2807	0.2807	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM070821-1314

## Lab Sample ID: 320-78479-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0042		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.14		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.018		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	47		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP070821-1314

## Lab Sample ID: 320-78479-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.9925		0.3007	0.3007	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM070821-1315

## Lab Sample ID: 320-78479-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0018		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.52		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	40		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP070821-1315

## Lab Sample ID: 320-78479-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.6696		0.2822	0.2822	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-78479-1

## Client Sample ID: GILBANEPM070821-1312

## Lab Sample ID: 320-78479-1

Date Collected: 09/01/21 07:01

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0043		0.00070	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:23	1
Copper	0.053		0.0014	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:23	1
Manganese	0.015		0.00070	0.000098	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:23	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	44		0.29	0.29	ug/m3			09/03/21 15:15	1

## Client Sample ID: GILBANETSP070821-1312

## Lab Sample ID: 320-78479-2

Date Collected: 09/01/21 07:01

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	53.2342		0.3018	0.3018	ug/m3 (Air)			09/03/21 15:15	1

## Client Sample ID: GILBANEPM070821-1313

## Lab Sample ID: 320-78479-3

Date Collected: 09/01/21 06:49

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00076		0.00068	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:27	1
Copper	0.16		0.0014	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:27	1
Manganese	0.0022		0.00068	0.000095	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.7		0.28	0.28	ug/m3			09/03/21 15:15	1

## Client Sample ID: GILBANETSP070821-1313

## Lab Sample ID: 320-78479-4

Date Collected: 09/01/21 06:49

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.3509		0.2807	0.2807	ug/m3 (Air)			09/03/21 15:15	1

## Client Sample ID: GILBANEPM070821-1314

## Lab Sample ID: 320-78479-5

Date Collected: 09/02/21 06:54

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0042		0.00070	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:30	1
Copper	0.14		0.0014	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:30	1
Manganese	0.018		0.00070	0.000097	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:30	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-78479-1

**Client Sample ID: GILBANEPM070821-1314**

**Lab Sample ID: 320-78479-5**

Date Collected: 09/02/21 06:54

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	47		0.29	0.29	ug/m3			09/03/21 15:15	1

**Client Sample ID: GILBANETSP070821-1314**

**Lab Sample ID: 320-78479-6**

Date Collected: 09/02/21 06:54

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.9925		0.3007	0.3007	ug/m3 (Air)			09/03/21 15:15	1

**Client Sample ID: GILBANEPM070821-1315**

**Lab Sample ID: 320-78479-7**

Date Collected: 09/02/21 06:45

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0018		0.00070	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:33	1
Copper	0.52		0.0014	0.00010	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:33	1
Manganese	0.012		0.00070	0.000098	ug/m3 (Air)		09/08/21 05:30	09/08/21 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	40		0.29	0.29	ug/m3			09/03/21 15:15	1

**Client Sample ID: GILBANETSP070821-1315**

**Lab Sample ID: 320-78479-8**

Date Collected: 09/02/21 06:45

Matrix: Air

Date Received: 09/03/21 10:00

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.6696		0.2822	0.2822	ug/m3 (Air)			09/03/21 15:15	1

# QC Sample Results

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

Job ID: 320-78479-1

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

**Lab Sample ID: MB 320-523118/1-B**  
**Matrix: Air**  
**Analysis Batch: 523419**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 523120**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		09/08/21 05:30	09/08/21 13:42	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		09/08/21 05:30	09/08/21 13:42	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		09/08/21 05:30	09/08/21 13:42	1

**Lab Sample ID: LCS 320-523118/2-B**  
**Matrix: Air**  
**Analysis Batch: 523419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 523120**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.256		ug/m3 (Air)		107	85 - 110
Manganese	0.240	0.256		ug/m3 (Air)		107	88 - 110

**Lab Sample ID: LCSD 320-523118/3-B**  
**Matrix: Air**  
**Analysis Batch: 523419**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 523120**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.247		ug/m3 (Air)		103	86 - 111	4	15
Copper	0.240	0.254		ug/m3 (Air)		106	85 - 110	1	15
Manganese	0.240	0.251		ug/m3 (Air)		105	88 - 110	2	15

# QC Association Summary

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

Job ID: 320-78479-1

## Metals

### Pre Prep Batch: 523118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78479-1	GILBANEPM070821-1312	Total/NA	Air	Filter to Air	
320-78479-3	GILBANEPM070821-1313	Total/NA	Air	Filter to Air	
320-78479-5	GILBANEPM070821-1314	Total/NA	Air	Filter to Air	
320-78479-7	GILBANEPM070821-1315	Total/NA	Air	Filter to Air	
MB 320-523118/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-523118/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-523118/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 523120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78479-1	GILBANEPM070821-1312	Total/NA	Air	3050B	523118
320-78479-3	GILBANEPM070821-1313	Total/NA	Air	3050B	523118
320-78479-5	GILBANEPM070821-1314	Total/NA	Air	3050B	523118
320-78479-7	GILBANEPM070821-1315	Total/NA	Air	3050B	523118
MB 320-523118/1-B	Method Blank	Total/NA	Air	3050B	523118
LCS 320-523118/2-B	Lab Control Sample	Total/NA	Air	3050B	523118
LCSD 320-523118/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	523118

### Analysis Batch: 523419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78479-1	GILBANEPM070821-1312	Total/NA	Air	6020	523120
320-78479-3	GILBANEPM070821-1313	Total/NA	Air	6020	523120
320-78479-5	GILBANEPM070821-1314	Total/NA	Air	6020	523120
320-78479-7	GILBANEPM070821-1315	Total/NA	Air	6020	523120
MB 320-523118/1-B	Method Blank	Total/NA	Air	6020	523120
LCS 320-523118/2-B	Lab Control Sample	Total/NA	Air	6020	523120
LCSD 320-523118/3-B	Lab Control Sample Dup	Total/NA	Air	6020	523120

## General Chemistry

### Pre Prep Batch: 523626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78479-2	GILBANETSP070821-1312	Total/NA	Air	Filter to Air	
320-78479-4	GILBANETSP070821-1313	Total/NA	Air	Filter to Air	
320-78479-6	GILBANETSP070821-1314	Total/NA	Air	Filter to Air	
320-78479-8	GILBANETSP070821-1315	Total/NA	Air	Filter to Air	

### Analysis Batch: 523652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78479-1	GILBANEPM070821-1312	Total/NA	Air	PM10	
320-78479-3	GILBANEPM070821-1313	Total/NA	Air	PM10	
320-78479-5	GILBANEPM070821-1314	Total/NA	Air	PM10	
320-78479-7	GILBANEPM070821-1315	Total/NA	Air	PM10	

### Analysis Batch: 523654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78479-2	GILBANETSP070821-1312	Total/NA	Air	40CFR50 App B	523626
320-78479-4	GILBANETSP070821-1313	Total/NA	Air	40CFR50 App B	523626
320-78479-6	GILBANETSP070821-1314	Total/NA	Air	40CFR50 App B	523626
320-78479-8	GILBANETSP070821-1315	Total/NA	Air	40CFR50 App B	523626

Eurofins TestAmerica, Sacramento

# Lab Chronicle

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

Job ID: 320-78479-1

**Client Sample ID: GILBANEPM070821-1312**

**Lab Sample ID: 320-78479-1**

Date Collected: 09/01/21 07:01

Matrix: Air

Date Received: 09/03/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					523118	09/08/21 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	523120	09/08/21 05:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			523419	09/08/21 14:23	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0764 g	523652	09/03/21 15:15	DPM	TAL SAC

**Client Sample ID: GILBANETSP070821-1312**

**Lab Sample ID: 320-78479-2**

Date Collected: 09/01/21 07:01

Matrix: Air

Date Received: 09/03/21 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			523654	09/03/21 15:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					523626	09/09/21 15:10	DPM	TAL SAC

**Client Sample ID: GILBANEPM070821-1313**

**Lab Sample ID: 320-78479-3**

Date Collected: 09/01/21 06:49

Matrix: Air

Date Received: 09/03/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					523118	09/08/21 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	523120	09/08/21 05:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			523419	09/08/21 14:27	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0118 g	523652	09/03/21 15:15	DPM	TAL SAC

**Client Sample ID: GILBANETSP070821-1313**

**Lab Sample ID: 320-78479-4**

Date Collected: 09/01/21 06:49

Matrix: Air

Date Received: 09/03/21 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			523654	09/03/21 15:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					523626	09/09/21 15:10	DPM	TAL SAC

**Client Sample ID: GILBANEPM070821-1314**

**Lab Sample ID: 320-78479-5**

Date Collected: 09/02/21 06:54

Matrix: Air

Date Received: 09/03/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					523118	09/08/21 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	523120	09/08/21 05:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			523419	09/08/21 14:30	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0811 g	523652	09/03/21 15:15	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-78479-1

**Client Sample ID: GILBANETSP070821-1314**

**Lab Sample ID: 320-78479-6**

Date Collected: 09/02/21 06:54

Matrix: Air

Date Received: 09/03/21 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			523654	09/03/21 15:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					523626	09/09/21 15:10	DPM	TAL SAC

**Client Sample ID: GILBANEPM070821-1315**

**Lab Sample ID: 320-78479-7**

Date Collected: 09/02/21 06:45

Matrix: Air

Date Received: 09/03/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					523118	09/08/21 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	523120	09/08/21 05:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			523419	09/08/21 14:33	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0680 g	523652	09/03/21 15:15	DPM	TAL SAC

**Client Sample ID: GILBANETSP070821-1315**

**Lab Sample ID: 320-78479-8**

Date Collected: 09/02/21 06:45

Matrix: Air

Date Received: 09/03/21 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			523654	09/03/21 15:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					523626	09/09/21 15:10	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-78479-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-78479-1

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

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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





# Sample Summary

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

Job ID: 320-78479-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78479-1	GILBANEPM070821-1312	Air	09/01/21 07:01	09/03/21 10:00
320-78479-2	GILBANETSP070821-1312	Air	09/01/21 07:01	09/03/21 10:00
320-78479-3	GILBANEPM070821-1313	Air	09/01/21 06:49	09/03/21 10:00
320-78479-4	GILBANETSP070821-1313	Air	09/01/21 06:49	09/03/21 10:00
320-78479-5	GILBANEPM070821-1314	Air	09/02/21 06:54	09/03/21 10:00
320-78479-6	GILBANETSP070821-1314	Air	09/02/21 06:54	09/03/21 10:00
320-78479-7	GILBANEPM070821-1315	Air	09/02/21 06:45	09/03/21 10:00
320-78479-8	GILBANETSP070821-1315	Air	09/02/21 06:45	09/03/21 10:00

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

**CHAIN-OF-CUSTODY  
RECORD**

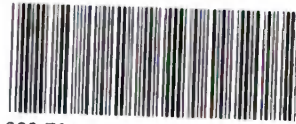
Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

**COC # KT090221AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<b>Event:</b> Parcel E Phase 2 Air Monitoring September 2021
<b>Project Number:</b> J310000400	<b>PO:</b> [REDACTED]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	<b>Code</b>	<b>Matrix</b>
			A	Air
<b>Equipment:</b>			<b>Code</b>	<b>Container/Preservative</b>
			1	1x 250-mL Plastic, 4 Degrees C
			1	1x Envelope, None

  
 320-78479 Chain of Custody

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Event: Parcel E Phase 2 Air Monitoring September 2021																	
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	GILBANEPM070821-1312	A	09/01/2021	0701	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1718.55
2	GILBANETSP070821-1312	A	09/01/2021	0701	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1656.83
3	GILBANEPM070821-1313	A	09/01/2021	0649	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1766.38
4	GILBANETSP070821-1313	A	09/01/2021	0649	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1781.25
5	GILBANEPM070821-1314	A	09/02/2021	0654	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1724.29
6	GILBANETSP070821-1314	A	09/02/2021	0654	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1662.81
7	GILBANEPM070821-1315	A	09/02/2021	0645	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1715.96
8	GILBANETSP070821-1315	A	09/02/2021	0645	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1772.03
9																	
10																	

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9/2/21	6:00	[REDACTED] ETASAC	9/2/21	10:00	Shipping Date: 9/2/2021 Rd Gx 774713495652
						Received by Laboratory: (Signature, Date, Time) & condition

10/14/2021 (Rev. 1)

# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-78479-1

**Login Number: 78479**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-78580-1

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

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attr [REDACTED]

Authorized for release by:  
9/15/2021 9:28:28 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

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



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# Definitions/Glossary

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

Job ID: 320-78580-1

## Glossary

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

# Case Narrative

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

Job ID: 320-78580-1

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**Job ID: 320-78580-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative  
320-78580-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/8/2021 9:27 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.6° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-78580-1

## Client Sample ID: GILBANEPM070821-1316

## Lab Sample ID: 320-78580-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0099		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.028		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	68		0.87	0.87	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANEPM070821-1317

## Lab Sample ID: 320-78580-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030		0.0020	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.42		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014		0.0020	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	51		0.85	0.85	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP070821-1316

## Lab Sample ID: 320-78580-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	60.9132		0.8984	0.8984	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANETSP070821-1317

## Lab Sample ID: 320-78580-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	62.7226		0.8522	0.8522	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-78580-1

## Client Sample ID: GILBANEPM070821-1316

Lab Sample ID: 320-78580-1

Date Collected: 09/02/21 14:58

Matrix: Air

Date Received: 09/08/21 09:27

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0099		0.0021	0.00031	ug/m3 (Air)		09/13/21 06:00	09/13/21 13:14	1
Copper	0.12		0.0042	0.00031	ug/m3 (Air)		09/13/21 06:00	09/13/21 13:14	1
Manganese	0.028		0.0021	0.00029	ug/m3 (Air)		09/13/21 06:00	09/13/21 13:14	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	68		0.87	0.87	ug/m3			09/08/21 14:30	1

## Client Sample ID: GILBANEPM070821-1317

Lab Sample ID: 320-78580-2

Date Collected: 09/02/21 14:47

Matrix: Air

Date Received: 09/08/21 09:27

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030		0.0020	0.00031	ug/m3 (Air)		09/13/21 06:00	09/13/21 12:42	1
Copper	0.42		0.0041	0.00031	ug/m3 (Air)		09/13/21 06:00	09/13/21 12:42	1
Manganese	0.014		0.0020	0.00029	ug/m3 (Air)		09/13/21 06:00	09/13/21 12:42	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	51		0.85	0.85	ug/m3			09/08/21 14:30	1

## Client Sample ID: GILBANETSP070821-1316

Lab Sample ID: 320-78580-3

Date Collected: 09/02/21 14:58

Matrix: Air

Date Received: 09/08/21 09:27

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	60.9132		0.8984	0.8984	ug/m3 (Air)			09/08/21 14:30	1

## Client Sample ID: GILBANETSP070821-1317

Lab Sample ID: 320-78580-4

Date Collected: 09/02/21 14:47

Matrix: Air

Date Received: 09/08/21 09:27

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.7226		0.8522	0.8522	ug/m3 (Air)			09/08/21 14:30	1

# QC Sample Results

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

Job ID: 320-78580-1

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

**Lab Sample ID: MB 320-524496/1-B**  
**Matrix: Air**  
**Analysis Batch: 524684**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 524498**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		09/13/21 06:00	09/13/21 11:24	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		09/13/21 06:00	09/13/21 11:24	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		09/13/21 06:00	09/13/21 11:24	1

**Lab Sample ID: LCS 320-524496/2-B**  
**Matrix: Air**  
**Analysis Batch: 524684**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 524498**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.229		ug/m3 (Air)		95	86 - 111
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.237		ug/m3 (Air)		99	88 - 110

**Lab Sample ID: LCSD 320-524496/3-B**  
**Matrix: Air**  
**Analysis Batch: 524684**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 524498**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.231		ug/m3 (Air)		96	86 - 111	1	15
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110	0	15
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110	0	15

# QC Association Summary

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

Job ID: 320-78580-1

## Metals

### Pre Prep Batch: 524496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78580-1	GILBANEPM070821-1316	Total/NA	Air	Filter to Air	
320-78580-2	GILBANEPM070821-1317	Total/NA	Air	Filter to Air	
MB 320-524496/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-524496/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-524496/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 524498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78580-1	GILBANEPM070821-1316	Total/NA	Air	3050B	524496
320-78580-2	GILBANEPM070821-1317	Total/NA	Air	3050B	524496
MB 320-524496/1-B	Method Blank	Total/NA	Air	3050B	524496
LCS 320-524496/2-B	Lab Control Sample	Total/NA	Air	3050B	524496
LCSD 320-524496/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	524496

### Analysis Batch: 524684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78580-1	GILBANEPM070821-1316	Total/NA	Air	6020	524498
320-78580-2	GILBANEPM070821-1317	Total/NA	Air	6020	524498
MB 320-524496/1-B	Method Blank	Total/NA	Air	6020	524498
LCS 320-524496/2-B	Lab Control Sample	Total/NA	Air	6020	524498
LCSD 320-524496/3-B	Lab Control Sample Dup	Total/NA	Air	6020	524498

## General Chemistry

### Pre Prep Batch: 524637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78580-3	GILBANETSP070821-1316	Total/NA	Air	Filter to Air	
320-78580-4	GILBANETSP070821-1317	Total/NA	Air	Filter to Air	

### Analysis Batch: 524980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78580-3	GILBANETSP070821-1316	Total/NA	Air	40CFR50 App B	524637
320-78580-4	GILBANETSP070821-1317	Total/NA	Air	40CFR50 App B	524637

### Analysis Batch: 524984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78580-1	GILBANEPM070821-1316	Total/NA	Air	PM10	
320-78580-2	GILBANEPM070821-1317	Total/NA	Air	PM10	

# Lab Chronicle

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

Job ID: 320-78580-1

**Client Sample ID: GILBANEPM070821-1316**

**Lab Sample ID: 320-78580-1**

Date Collected: 09/02/21 14:58

Matrix: Air

Date Received: 09/08/21 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524496	09/13/21 05:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524498	09/13/21 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			524684	09/13/21 13:14	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0392 g	524984	09/08/21 14:30	DPM	TAL SAC

**Client Sample ID: GILBANEPM070821-1317**

**Lab Sample ID: 320-78580-2**

Date Collected: 09/02/21 14:47

Matrix: Air

Date Received: 09/08/21 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524496	09/13/21 05:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524498	09/13/21 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			524684	09/13/21 12:42	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0301 g	524984	09/08/21 14:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP070821-1316**

**Lab Sample ID: 320-78580-3**

Date Collected: 09/02/21 14:58

Matrix: Air

Date Received: 09/08/21 09:27

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			524980	09/08/21 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					524637	09/13/21 13:07	DPM	TAL SAC

**Client Sample ID: GILBANETSP070821-1317**

**Lab Sample ID: 320-78580-4**

Date Collected: 09/02/21 14:47

Matrix: Air

Date Received: 09/08/21 09:27

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			524980	09/08/21 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					524637	09/13/21 13:07	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-78580-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-78580-1

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

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 320-78580-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78580-1	GILBANEPM070821-1316	Air	09/02/21 14:58	09/08/21 09:27
320-78580-2	GILBANEPM070821-1317	Air	09/02/21 14:47	09/08/21 09:27
320-78580-3	GILBANETSP070821-1316	Air	09/02/21 14:58	09/08/21 09:27
320-78580-4	GILBANETSP070821-1317	Air	09/02/21 14:47	09/08/21 09:27

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# CHAIN-OF-CUSTODY RECORD

Gilbane Federal  
 Brett Womack  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT090721AIR



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<b>Event:</b> Parcel E Phase 2 Air Monitoring September 2021
<b>Project Number:</b> J310000400	POC [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code	Matrix
			A	Air
<b>Equipment:</b>			Code	Container/Preservative
			1	1x 250-mL Plastic, 4 Degrees C
			1	1x Envelope, None



320-78580 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring September 2021															
Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method				Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
					1	1	1				Top	Bottom			
1	GILBANEPM070821-1316	A	09/02/2021	1458	KT	X		X		AMSE1	N2	0.00	0.00	1	VOLUME: 577.41
2	GILBANEPM070821-1317	A	09/02/2021	1447	KT	X		X		AMSE2	N2	0.00	0.00	1	VOLUME: 587.39
3	GILBANETSP070821-1316	A	09/02/2021	1458	KT		X			AMSE1	N2	0.00	0.00	1	VOLUME: 556.53
4	GILBANETSP070821-1317	A	09/02/2021	1447	KT		X			AMSE2	N2	0.00	0.00	1	VOLUME: 586.71
5															
6															
7															
8															
9															
10															

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9-7-21	14:58	Fed Ex	9-7-21	14:58	Shipping Date: 9/7/2021/FedEx 2834 0979 5890
			[REDACTED]	9/8/21	927	
						Received by Laboratory: (Signature, Date, Time) & condition
						[REDACTED]

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9/15/2021





# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-78580-1

**Login Number: 78580**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-78712-1

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

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

Authorized for release by:  
9/17/2021 9:35:39 AM

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

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

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



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# Definitions/Glossary

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

Job ID: 320-78712-1

## Glossary

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

# Case Narrative

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

Job ID: 320-78712-1

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**Job ID: 320-78712-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative**  
**320-78712-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/10/2021 10:10 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 17.8° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-78712-1

## Client Sample ID: GILBANEPM070821-1318

## Lab Sample ID: 320-78712-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0072		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.039		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.00070	0.000099	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: GILBANETSP070821-1318

## Lab Sample ID: 320-78712-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.5478		0.3043	0.3043	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM070821-1319

## Lab Sample ID: 320-78712-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0083		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0046		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP070821-1319

## Lab Sample ID: 320-78712-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.2468		0.2948	0.2948	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1363

## Lab Sample ID: 320-78712-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0078		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014		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: GILBANETSP072921-1363

## Lab Sample ID: 320-78712-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.1263		0.2982	0.2982	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1364

## Lab Sample ID: 320-78712-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0020		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.012		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0057		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1364

## Lab Sample ID: 320-78712-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.8065		0.2810	0.2810	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-78712-1

**Client Sample ID: GILBANEPM070821-1318**

**Lab Sample ID: 320-78712-1**

Date Collected: 09/08/21 07:06

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0072		0.00070	0.00011	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:36	1
Copper	0.039		0.0014	0.00011	ug/m3 (Air)		09/13/21 21:00	09/15/21 16:19	1
Manganese	0.013		0.00070	0.000099	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			09/10/21 15:45	1

**Client Sample ID: GILBANETSP070821-1318**

**Lab Sample ID: 320-78712-2**

Date Collected: 09/08/21 07:06

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.5478		0.3043	0.3043	ug/m3 (Air)			09/14/21 14:56	1

**Client Sample ID: GILBANEPM070821-1319**

**Lab Sample ID: 320-78712-3**

Date Collected: 09/08/21 06:55

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016		0.00068	0.00010	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:40	1
Copper	0.0083		0.0014	0.00010	ug/m3 (Air)		09/13/21 21:00	09/15/21 16:22	1
Manganese	0.0046		0.00068	0.000096	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.28	0.28	ug/m3			09/10/21 15:45	1

**Client Sample ID: GILBANETSP070821-1319**

**Lab Sample ID: 320-78712-4**

Date Collected: 09/08/21 06:55

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.2468		0.2948	0.2948	ug/m3 (Air)			09/14/21 14:56	1

**Client Sample ID: GILBANEPM072921-1363**

**Lab Sample ID: 320-78712-5**

Date Collected: 09/09/21 07:02

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0078		0.00069	0.00010	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:43	1
Copper	0.13		0.0014	0.00010	ug/m3 (Air)		09/13/21 21:00	09/15/21 16:26	1
Manganese	0.014		0.00069	0.000097	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:43	1

Euofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-78712-1

**Client Sample ID: GILBANEPM072921-1363**

**Lab Sample ID: 320-78712-5**

Date Collected: 09/09/21 07:02

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			09/10/21 15:45	1

**Client Sample ID: GILBANETSP072921-1363**

**Lab Sample ID: 320-78712-6**

Date Collected: 09/09/21 07:02

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.1263		0.2982	0.2982	ug/m3 (Air)			09/14/21 14:56	1

**Client Sample ID: GILBANEPM072921-1364**

**Lab Sample ID: 320-78712-7**

Date Collected: 09/09/21 06:52

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020		0.00068	0.00010	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:46	1
Copper	0.012		0.0014	0.00010	ug/m3 (Air)		09/13/21 21:00	09/15/21 16:29	1
Manganese	0.0057		0.00068	0.000095	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.28	0.28	ug/m3			09/10/21 15:45	1

**Client Sample ID: GILBANETSP072921-1364**

**Lab Sample ID: 320-78712-8**

Date Collected: 09/09/21 06:52

Matrix: Air

Date Received: 09/10/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.8065		0.2810	0.2810	ug/m3 (Air)			09/14/21 14:56	1



# QC Sample Results

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

Job ID: 320-78712-1

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

**Lab Sample ID: MB 320-524835/1-B**  
**Matrix: Air**  
**Analysis Batch: 524860**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 524837**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:14	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		09/13/21 21:00	09/14/21 00:14	1

**Lab Sample ID: MB 320-524835/1-B**  
**Matrix: Air**  
**Analysis Batch: 525516**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 524837**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		09/13/21 21:00	09/15/21 15:44	1

**Lab Sample ID: LCS 320-524835/2-B**  
**Matrix: Air**  
**Analysis Batch: 524860**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 524837**

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

**Lab Sample ID: LCS 320-524835/2-B**  
**Matrix: Air**  
**Analysis Batch: 525516**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 524837**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110

**Lab Sample ID: LCSD 320-524835/3-B**  
**Matrix: Air**  
**Analysis Batch: 524860**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 524837**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.255		ug/m3 (Air)		106	86 - 111	1	15
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110	0	15

**Lab Sample ID: LCSD 320-524835/3-B**  
**Matrix: Air**  
**Analysis Batch: 525516**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 524837**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110	0	15

# QC Association Summary

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

Job ID: 320-78712-1

## Metals

### Pre Prep Batch: 524835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-1	GILBANEPM070821-1318	Total/NA	Air	Filter to Air	
320-78712-3	GILBANEPM070821-1319	Total/NA	Air	Filter to Air	
320-78712-5	GILBANEPM072921-1363	Total/NA	Air	Filter to Air	
320-78712-7	GILBANEPM072921-1364	Total/NA	Air	Filter to Air	
MB 320-524835/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-524835/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-524835/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 524837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-1	GILBANEPM070821-1318	Total/NA	Air	3050B	524835
320-78712-3	GILBANEPM070821-1319	Total/NA	Air	3050B	524835
320-78712-5	GILBANEPM072921-1363	Total/NA	Air	3050B	524835
320-78712-7	GILBANEPM072921-1364	Total/NA	Air	3050B	524835
MB 320-524835/1-B	Method Blank	Total/NA	Air	3050B	524835
LCS 320-524835/2-B	Lab Control Sample	Total/NA	Air	3050B	524835
LCSD 320-524835/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	524835

### Analysis Batch: 524860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-1	GILBANEPM070821-1318	Total/NA	Air	6020	524837
320-78712-3	GILBANEPM070821-1319	Total/NA	Air	6020	524837
320-78712-5	GILBANEPM072921-1363	Total/NA	Air	6020	524837
320-78712-7	GILBANEPM072921-1364	Total/NA	Air	6020	524837
MB 320-524835/1-B	Method Blank	Total/NA	Air	6020	524837
LCS 320-524835/2-B	Lab Control Sample	Total/NA	Air	6020	524837
LCSD 320-524835/3-B	Lab Control Sample Dup	Total/NA	Air	6020	524837

### Analysis Batch: 525516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-1	GILBANEPM070821-1318	Total/NA	Air	6020	524837
320-78712-3	GILBANEPM070821-1319	Total/NA	Air	6020	524837
320-78712-5	GILBANEPM072921-1363	Total/NA	Air	6020	524837
320-78712-7	GILBANEPM072921-1364	Total/NA	Air	6020	524837
MB 320-524835/1-B	Method Blank	Total/NA	Air	6020	524837
LCS 320-524835/2-B	Lab Control Sample	Total/NA	Air	6020	524837
LCSD 320-524835/3-B	Lab Control Sample Dup	Total/NA	Air	6020	524837

## General Chemistry

### Pre Prep Batch: 524637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-2	GILBANETSP070821-1318	Total/NA	Air	Filter to Air	
320-78712-4	GILBANETSP070821-1319	Total/NA	Air	Filter to Air	
320-78712-6	GILBANETSP072921-1363	Total/NA	Air	Filter to Air	
320-78712-8	GILBANETSP072921-1364	Total/NA	Air	Filter to Air	

### Analysis Batch: 525013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-1	GILBANEPM070821-1318	Total/NA	Air	PM10	
320-78712-3	GILBANEPM070821-1319	Total/NA	Air	PM10	

Eurofins TestAmerica, Sacramento

# QC Association Summary

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

Job ID: 320-78712-1

## General Chemistry (Continued)

### Analysis Batch: 525013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-5	GILBANEPM072921-1363	Total/NA	Air	PM10	
320-78712-7	GILBANEPM072921-1364	Total/NA	Air	PM10	

### Analysis Batch: 525014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78712-2	GILBANETSP070821-1318	Total/NA	Air	40CFR50 App B	524637
320-78712-4	GILBANETSP070821-1319	Total/NA	Air	40CFR50 App B	524637
320-78712-6	GILBANETSP072921-1363	Total/NA	Air	40CFR50 App B	524637
320-78712-8	GILBANETSP072921-1364	Total/NA	Air	40CFR50 App B	524637

# Lab Chronicle

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

Job ID: 320-78712-1

**Client Sample ID: GILBANEPM070821-1318**

**Lab Sample ID: 320-78712-1**

**Date Collected: 09/08/21 07:06**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			524860	09/14/21 00:36	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			525516	09/15/21 16:19	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0522 g	525013	09/10/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP070821-1318**

**Lab Sample ID: 320-78712-2**

**Date Collected: 09/08/21 07:06**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524637	09/13/21 13:07	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			525014	09/14/21 14:56	DPM	TAL SAC

**Client Sample ID: GILBANEPM070821-1319**

**Lab Sample ID: 320-78712-3**

**Date Collected: 09/08/21 06:55**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			524860	09/14/21 00:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			525516	09/15/21 16:22	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0391 g	525013	09/10/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP070821-1319**

**Lab Sample ID: 320-78712-4**

**Date Collected: 09/08/21 06:55**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524637	09/13/21 13:07	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			525014	09/14/21 14:56	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-78712-1

**Client Sample ID: GILBANEPM072921-1363**

**Lab Sample ID: 320-78712-5**

**Date Collected: 09/09/21 07:02**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			524860	09/14/21 00:43	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			525516	09/15/21 16:26	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0532 g	525013	09/10/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1363**

**Lab Sample ID: 320-78712-6**

**Date Collected: 09/09/21 07:02**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524637	09/13/21 13:07	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			525014	09/14/21 14:56	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1364**

**Lab Sample ID: 320-78712-7**

**Date Collected: 09/09/21 06:52**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			524860	09/14/21 00:46	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					524835	09/13/21 20:17	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	524837	09/13/21 21:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			525516	09/15/21 16:29	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0347 g	525013	09/10/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1364**

**Lab Sample ID: 320-78712-8**

**Date Collected: 09/09/21 06:52**

**Matrix: Air**

**Date Received: 09/10/21 10:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					524637	09/13/21 13:07	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			525014	09/14/21 14:56	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-78712-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-78712-1

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

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 320-78712-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78712-1	GILBANEPM070821-1318	Air	09/08/21 07:06	09/10/21 10:10
320-78712-2	GILBANETSP070821-1318	Air	09/08/21 07:06	09/10/21 10:10
320-78712-3	GILBANEPM070821-1319	Air	09/08/21 06:55	09/10/21 10:10
320-78712-4	GILBANETSP070821-1319	Air	09/08/21 06:55	09/10/21 10:10
320-78712-5	GILBANEPM072921-1363	Air	09/09/21 07:02	09/10/21 10:10
320-78712-6	GILBANETSP072921-1363	Air	09/09/21 07:02	09/10/21 10:10
320-78712-7	GILBANEPM072921-1364	Air	09/09/21 06:52	09/10/21 10:10
320-78712-8	GILBANETSP072921-1364	Air	09/09/21 06:52	09/10/21 10:10

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# CHAIN-OF-CUSTODY RECORD

Gilbane Federal  
 Brett Womack  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT090921AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring September 2021
Project Number: J310000400	POC: [REDACTED]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Code	Matrix
					A	Air
Equipment:					Code	Container/Preservative
					1	1x 250-mL Plastic, 4 Degrees C
					1	1x Envelope, None



Event: Parcel E Phase 2 Air Monitoring September 2021															
Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GILBANEPM070821-1318	A	09/08/2021	0706	KT	X	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1703.59
2	GILBANETSP070821-1318	A	09/08/2021	0706	KT		X				AMSE1	N1	0.00 0.00	1	VOLUME: 1642.86
3	GILBANEPM070821-1319	A	09/08/2021	0655	KT	X	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1755.42
4	GILBANETSP070821-1319	A	09/08/2021	0655	KT		X				AMSE2	N1	0.00 0.00	1	VOLUME: 1695.91
5	GILBANEPM072921-1363	A	09/09/2021	0702	KT	X	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1728.59
6	GILBANETSP072921-1363	A	09/09/2021	0702	KT		X				AMSE1	N1	0.00 0.00	1	VOLUME: 1676.47
7	GILBANEPM072921-1364	A	09/09/2021	0652	KT	X	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1769.77
8	GILBANETSP072921-1364	A	09/09/2021	0652	KT		X				AMSE2	N1	0.00 0.00	1	VOLUME: 1779.42
9															
10															

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9/9/21	1600	[REDACTED]	9/9/21	1600	Shipping Date: 9/9/2021/FedEx 7747 5752 1983
			[REDACTED]	9/10/21	10:10	
						Received by Laboratory: (Signature, Date, Time) & condition

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9/17/2021



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-78712-1

**Login Number: 78712**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-78908-1

Client Project/Site: Hunters Point, Parcel E, Phase 2  
Revision: 1

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

---

Authorized for release by:  
10/14/2021 5:21:08 PM

[REDACTED] Senior Project Manager  
(916)374-4362

[REDACTED]

Designee for

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

[REDACTED]

..... LINKS .....

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

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

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# Definitions/Glossary

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

Job ID: 320-78908-1

## Glossary

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

# Case Narrative

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

Job ID: 320-78908-1

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**Job ID: 320-78908-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

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**Job Narrative  
320-78908-1 Rev(1)**

**Revision 1**

The answer to "Samples were received on ice" has been corrected from "True" to "False" on the Login Sample Receipt Checklist.

**Receipt**

The samples were received on 9/15/2021 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 17.7° C.

**Metals**

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



# Detection Summary

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

Job ID: 320-78908-1

## Client Sample ID: GILBANEPM072921-1365

## Lab Sample ID: 320-78908-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0062		0.0022	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.045		0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.90	0.90	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1365

## Lab Sample ID: 320-78908-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	66.1376		0.9448	0.9448	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1366

## Lab Sample ID: 320-78908-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0046		0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.052		0.0042	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0074		0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.89	0.89	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1366

## Lab Sample ID: 320-78908-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.6980		0.8733	0.8733	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1367

## Lab Sample ID: 320-78908-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.042		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0058		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1367

## Lab Sample ID: 320-78908-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.8405		0.3025	0.3025	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1368

## Lab Sample ID: 320-78908-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0097		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0099		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	28		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1368

## Lab Sample ID: 320-78908-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.8663		0.2812	0.2812	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-78908-1

## Client Sample ID: GILBANEPM072921-1365

## Lab Sample ID: 320-78908-1

Date Collected: 09/09/21 14:44

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0062		0.0022	0.00032	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:40	1
Copper	0.045		0.0043	0.00032	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:40	1
Manganese	0.015		0.0022	0.00030	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:40	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	27		0.90	0.90	ug/m3			09/15/21 17:45	1

## Client Sample ID: GILBANETSP072921-1365

## Lab Sample ID: 320-78908-2

Date Collected: 09/09/21 14:44

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.1376		0.9448	0.9448	ug/m3 (Air)			09/15/21 17:45	1

## Client Sample ID: GILBANEPM072921-1366

## Lab Sample ID: 320-78908-3

Date Collected: 09/09/21 14:34

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0046		0.0021	0.00032	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:49	1
Copper	0.052		0.0042	0.00032	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:49	1
Manganese	0.0074		0.0021	0.00030	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:49	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.89	0.89	ug/m3			09/15/21 17:45	1

## Client Sample ID: GILBANETSP072921-1366

## Lab Sample ID: 320-78908-4

Date Collected: 09/09/21 14:34

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.6980		0.8733	0.8733	ug/m3 (Air)			09/15/21 17:45	1

## Client Sample ID: GILBANEPM072921-1367

## Lab Sample ID: 320-78908-5

Date Collected: 09/14/21 07:02

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025		0.00070	0.00011	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:53	1
Copper	0.042		0.0014	0.00011	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:53	1
Manganese	0.0058		0.00070	0.000098	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:53	1

Eurolins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-78908-1

**Client Sample ID: GILBANEPM072921-1367**

**Lab Sample ID: 320-78908-5**

Date Collected: 09/14/21 07:02

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	37		0.29	0.29	ug/m3			09/15/21 17:45	1

**Client Sample ID: GILBANETSP072921-1367**

**Lab Sample ID: 320-78908-6**

Date Collected: 09/14/21 07:02

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.8405		0.3025	0.3025	ug/m3 (Air)			09/15/21 17:45	1

**Client Sample ID: GILBANEPM072921-1368**

**Lab Sample ID: 320-78908-7**

Date Collected: 09/14/21 06:55

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00067	0.00010	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:56	1
Copper	0.0097		0.0013	0.00010	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:56	1
Manganese	0.0099		0.00067	0.000094	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.28	0.28	ug/m3			09/15/21 17:45	1

**Client Sample ID: GILBANETSP072921-1368**

**Lab Sample ID: 320-78908-8**

Date Collected: 09/14/21 06:55

Matrix: Air

Date Received: 09/15/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.8663		0.2812	0.2812	ug/m3 (Air)			09/15/21 17:45	1

# QC Sample Results

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

Job ID: 320-78908-1

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

**Lab Sample ID: MB 320-525947/1-B**  
**Matrix: Air**  
**Analysis Batch: 526598**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 525961**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0012	0.00018	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:17	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:17	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		09/17/21 09:55	09/19/21 13:17	1

**Lab Sample ID: LCS 320-525947/2-B**  
**Matrix: Air**  
**Analysis Batch: 526598**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 525961**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Lead	0.240	0.221		ug/m3 (Air)		92	86 - 111
Copper	0.240	0.247		ug/m3 (Air)		103	85 - 110
Manganese	0.240	0.220		ug/m3 (Air)		92	88 - 110

**Lab Sample ID: LCSD 320-525947/3-B**  
**Matrix: Air**  
**Analysis Batch: 526598**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 525961**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Lead	0.240	0.223		ug/m3 (Air)		93	86 - 111	1	15
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110	2	15
Manganese	0.240	0.225		ug/m3 (Air)		94	88 - 110	2	15

# QC Association Summary

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

Job ID: 320-78908-1

## Metals

### Pre Prep Batch: 525947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78908-1	GILBANEPM072921-1365	Total/NA	Air	Filter to Air	
320-78908-3	GILBANEPM072921-1366	Total/NA	Air	Filter to Air	
320-78908-5	GILBANEPM072921-1367	Total/NA	Air	Filter to Air	
320-78908-7	GILBANEPM072921-1368	Total/NA	Air	Filter to Air	
MB 320-525947/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-525947/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-525947/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 525961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78908-1	GILBANEPM072921-1365	Total/NA	Air	3050B	525947
320-78908-3	GILBANEPM072921-1366	Total/NA	Air	3050B	525947
320-78908-5	GILBANEPM072921-1367	Total/NA	Air	3050B	525947
320-78908-7	GILBANEPM072921-1368	Total/NA	Air	3050B	525947
MB 320-525947/1-B	Method Blank	Total/NA	Air	3050B	525947
LCS 320-525947/2-B	Lab Control Sample	Total/NA	Air	3050B	525947
LCSD 320-525947/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	525947

### Analysis Batch: 526598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78908-1	GILBANEPM072921-1365	Total/NA	Air	6020	525961
320-78908-3	GILBANEPM072921-1366	Total/NA	Air	6020	525961
320-78908-5	GILBANEPM072921-1367	Total/NA	Air	6020	525961
320-78908-7	GILBANEPM072921-1368	Total/NA	Air	6020	525961
MB 320-525947/1-B	Method Blank	Total/NA	Air	6020	525961
LCS 320-525947/2-B	Lab Control Sample	Total/NA	Air	6020	525961
LCSD 320-525947/3-B	Lab Control Sample Dup	Total/NA	Air	6020	525961

## General Chemistry

### Pre Prep Batch: 526761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78908-2	GILBANETSP072921-1365	Total/NA	Air	Filter to Air	
320-78908-4	GILBANETSP072921-1366	Total/NA	Air	Filter to Air	
320-78908-6	GILBANETSP072921-1367	Total/NA	Air	Filter to Air	
320-78908-8	GILBANETSP072921-1368	Total/NA	Air	Filter to Air	

### Analysis Batch: 527147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78908-1	GILBANEPM072921-1365	Total/NA	Air	PM10	
320-78908-3	GILBANEPM072921-1366	Total/NA	Air	PM10	
320-78908-5	GILBANEPM072921-1367	Total/NA	Air	PM10	
320-78908-7	GILBANEPM072921-1368	Total/NA	Air	PM10	

### Analysis Batch: 527158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78908-2	GILBANETSP072921-1365	Total/NA	Air	40CFR50 App B	526761
320-78908-4	GILBANETSP072921-1366	Total/NA	Air	40CFR50 App B	526761
320-78908-6	GILBANETSP072921-1367	Total/NA	Air	40CFR50 App B	526761
320-78908-8	GILBANETSP072921-1368	Total/NA	Air	40CFR50 App B	526761

Eurofins TestAmerica, Sacramento

# Lab Chronicle

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

Job ID: 320-78908-1

**Client Sample ID: GILBANEPM072921-1365**

**Lab Sample ID: 320-78908-1**

**Date Collected: 09/09/21 14:44**

**Matrix: Air**

**Date Received: 09/15/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					525947	09/17/21 06:28	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	525961	09/17/21 09:55	NIM	TAL SAC
Total/NA	Analysis	6020		1			526598	09/19/21 13:40	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0148 g	527147	09/15/21 17:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1365**

**Lab Sample ID: 320-78908-2**

**Date Collected: 09/09/21 14:44**

**Matrix: Air**

**Date Received: 09/15/21 09:45**

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			527158	09/15/21 17:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1366**

**Lab Sample ID: 320-78908-3**

**Date Collected: 09/09/21 14:34**

**Matrix: Air**

**Date Received: 09/15/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					525947	09/17/21 06:28	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	525961	09/17/21 09:55	NIM	TAL SAC
Total/NA	Analysis	6020		1			526598	09/19/21 13:49	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0105 g	527147	09/15/21 17:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1366**

**Lab Sample ID: 320-78908-4**

**Date Collected: 09/09/21 14:34**

**Matrix: Air**

**Date Received: 09/15/21 09:45**

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			527158	09/15/21 17:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1367**

**Lab Sample ID: 320-78908-5**

**Date Collected: 09/14/21 07:02**

**Matrix: Air**

**Date Received: 09/15/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					525947	09/17/21 06:28	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	525961	09/17/21 09:55	NIM	TAL SAC
Total/NA	Analysis	6020		1			526598	09/19/21 13:53	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0629 g	527147	09/15/21 17:45	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-78908-1

**Client Sample ID: GILBANETSP072921-1367**

**Lab Sample ID: 320-78908-6**

Date Collected: 09/14/21 07:02

Matrix: Air

Date Received: 09/15/21 09:45

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			527158	09/15/21 17:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1368**

**Lab Sample ID: 320-78908-7**

Date Collected: 09/14/21 06:55

Matrix: Air

Date Received: 09/15/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					525947	09/17/21 06:28	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	525961	09/17/21 09:55	NIM	TAL SAC
Total/NA	Analysis	6020		1			526598	09/19/21 13:56	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0497 g	527147	09/15/21 17:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1368**

**Lab Sample ID: 320-78908-8**

Date Collected: 09/14/21 06:55

Matrix: Air

Date Received: 09/15/21 09:45

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			527158	09/15/21 17:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-78908-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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

- 1
- 2
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# Method Summary

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

Job ID: 320-78908-1

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

**Protocol References:**

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

**Laboratory References:**

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



# Sample Summary

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

Job ID: 320-78908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78908-1	GILBANEPM072921-1365	Air	09/09/21 14:44	09/15/21 09:45
320-78908-2	GILBANETSP072921-1365	Air	09/09/21 14:44	09/15/21 09:45
320-78908-3	GILBANEPM072921-1366	Air	09/09/21 14:34	09/15/21 09:45
320-78908-4	GILBANETSP072921-1366	Air	09/09/21 14:34	09/15/21 09:45
320-78908-5	GILBANEPM072921-1367	Air	09/14/21 07:02	09/15/21 09:45
320-78908-6	GILBANETSP072921-1367	Air	09/14/21 07:02	09/15/21 09:45
320-78908-7	GILBANEPM072921-1368	Air	09/14/21 06:55	09/15/21 09:45
320-78908-8	GILBANETSP072921-1368	Air	09/14/21 06:55	09/15/21 09:45

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# CHAIN-OF-CUSTODY RECORD


Gilbane Federal  
 Brett Womack  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT091421AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring September 2021
Project Number: J310000400	PC [REDACTED]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Code	Matrix
					A	Air
Equipment:					Code	Container/Preservative
					1	1x 250-mL Plastic, 4 Degrees C
					1	1x Envelope, None

  
 320-78908 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring September 2021

1 1 1

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Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
													Top	Bottom		
1	GILBANEP072921-1365	A	09/09/2021	1444	KT	X	X				AMSE1	N2	0.00	0.00	1	VOLUME: 555.37
2	GILBANETSP072921-1365	A	09/09/2021	1444	KT		X				AMSE1	N2	0.00	0.00	1	VOLUME: 529.20
3	GILBANEP072921-1366	A	09/09/2021	1434	KT	X	X				AMSE2	N2	0.00	0.00	1	VOLUME: 564.92
4	GILBANETSP072921-1366	A	09/09/2021	1434	KT		X				AMSE2	N2	0.00	0.00	1	VOLUME: 572.51
5	GILBANEP072921-1367	A	09/14/2021	0702	KT	X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1714.27
6	GILBANETSP072921-1367	A	09/14/2021	0702	KT		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1652.64
7	GILBANEP072921-1368	A	09/14/2021	0655	KT	X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1783.16
8	GILBANETSP072921-1368	A	09/14/2021	0655	KT		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1778.13
9																
10																

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9/14/21	1600	[REDACTED] ETASAC	9/14/21	1600	Shipping Date: 9/14/2021/FedEx 7747 9582 9012
				9-15-21	09:48	Received by Laboratory: (Signature, Date, Time) & condition

10/14/2021 (Rev. 1)

Temp: 17.7



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-78908-1

**Login Number: 78908**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-79052-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:  
Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attr 

Authorized for release by:  
9/24/2021 9:29:01 AM

 Project Manager I  
(916)374-4414  


### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

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# Definitions/Glossary

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

Job ID: 320-79052-1

## Qualifiers

### Metals

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

## Glossary

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

# Case Narrative

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

Job ID: 320-79052-1

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**Job ID: 320-79052-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative  
320-79052-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/17/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.3° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-79052-1

## Client Sample ID: GILBANEPM072921-1369

## Lab Sample ID: 320-79052-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0087		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.15		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.017	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1369

## Lab Sample ID: 320-79052-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	54.9474		0.3046	0.3046	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1370

## Lab Sample ID: 320-79052-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0014		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.012		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010	B	0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1370

## Lab Sample ID: 320-79052-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.1061		0.2809	0.2809	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1371

## Lab Sample ID: 320-79052-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0043		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.039		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0092	B	0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1371

## Lab Sample ID: 320-79052-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.0494		0.3015	0.3015	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1372

## Lab Sample ID: 320-79052-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017		0.00080	0.00012	ug/m3 (Air)	1		6020	Total/NA
Copper	0.012		0.0016	0.00012	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0037	B	0.00080	0.00011	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.33	0.33	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1372

## Lab Sample ID: 320-79052-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.2034		0.3271	0.3271	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79052-1

**Client Sample ID: GILBANEPM072921-1369**

**Lab Sample ID: 320-79052-1**

Date Collected: 09/15/21 06:56

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0087		0.00070	0.00010	ug/m3 (Air)		09/22/21 06:00	09/22/21 12:49	1
Copper	0.15		0.0014	0.00010	ug/m3 (Air)		09/22/21 06:00	09/22/21 12:49	1
Manganese	0.017	B	0.00070	0.000098	ug/m3 (Air)		09/22/21 06:00	09/22/21 12:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		0.29	0.29	ug/m3			09/19/21 10:00	1

**Client Sample ID: GILBANETSP072921-1369**

**Lab Sample ID: 320-79052-2**

Date Collected: 09/15/21 06:56

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	54.9474		0.3046	0.3046	ug/m3 (Air)			09/19/21 10:00	1

**Client Sample ID: GILBANEPM072921-1370**

**Lab Sample ID: 320-79052-3**

Date Collected: 09/15/21 06:45

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014		0.00068	0.00010	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:11	1
Copper	0.012		0.0014	0.00010	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:11	1
Manganese	0.010	B	0.00068	0.000095	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.28	0.28	ug/m3			09/19/21 10:00	1

**Client Sample ID: GILBANETSP072921-1370**

**Lab Sample ID: 320-79052-4**

Date Collected: 09/15/21 06:45

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.1061		0.2809	0.2809	ug/m3 (Air)			09/19/21 10:00	1

**Client Sample ID: GILBANEPM072921-1371**

**Lab Sample ID: 320-79052-5**

Date Collected: 09/16/21 07:01

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0043		0.00070	0.00010	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:14	1
Copper	0.039		0.0014	0.00010	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:14	1
Manganese	0.0092	B	0.00070	0.000097	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:14	1

Eurolins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79052-1

**Client Sample ID: GILBANEPM072921-1371**

**Lab Sample ID: 320-79052-5**

Date Collected: 09/16/21 07:01

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.29	0.29	ug/m3			09/19/21 10:00	1

**Client Sample ID: GILBANETSP072921-1371**

**Lab Sample ID: 320-79052-6**

Date Collected: 09/16/21 07:01

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.0494		0.3015	0.3015	ug/m3 (Air)			09/19/21 10:00	1

**Client Sample ID: GILBANEPM072921-1372**

**Lab Sample ID: 320-79052-7**

Date Collected: 09/16/21 06:50

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017		0.00080	0.00012	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:18	1
Copper	0.012		0.0016	0.00012	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:18	1
Manganese	0.0037	B	0.00080	0.00011	ug/m3 (Air)		09/22/21 06:00	09/22/21 13:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.33	0.33	ug/m3			09/19/21 10:00	1

**Client Sample ID: GILBANETSP072921-1372**

**Lab Sample ID: 320-79052-8**

Date Collected: 09/16/21 06:50

Matrix: Air

Date Received: 09/17/21 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.2034		0.3271	0.3271	ug/m3 (Air)			09/19/21 10:00	1

# QC Sample Results

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

Job ID: 320-79052-1

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

**Lab Sample ID: MB 320-527009/1-B**  
**Matrix: Air**  
**Analysis Batch: 527500**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 527275**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		09/22/21 06:00	09/22/21 12:39	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		09/22/21 06:00	09/22/21 12:39	1
Manganese	0.000857	J	0.0012	0.00017	ug/m3 (Air)		09/22/21 06:00	09/22/21 12:39	1

**Lab Sample ID: LCS 320-527009/2-B**  
**Matrix: Air**  
**Analysis Batch: 527500**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 527275**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.240		ug/m3 (Air)		100	86 - 111
Copper	0.240	0.251		ug/m3 (Air)		105	85 - 110
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110

**Lab Sample ID: LCSD 320-527009/3-B**  
**Matrix: Air**  
**Analysis Batch: 527500**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 527275**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111	1	15
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110	0	15
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110	0	15

# QC Association Summary

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

Job ID: 320-79052-1

## Metals

### Pre Prep Batch: 527009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79052-1	GILBANEPM072921-1369	Total/NA	Air	Filter to Air	
320-79052-3	GILBANEPM072921-1370	Total/NA	Air	Filter to Air	
320-79052-5	GILBANEPM072921-1371	Total/NA	Air	Filter to Air	
320-79052-7	GILBANEPM072921-1372	Total/NA	Air	Filter to Air	
MB 320-527009/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-527009/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-527009/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 527275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79052-1	GILBANEPM072921-1369	Total/NA	Air	3050B	527009
320-79052-3	GILBANEPM072921-1370	Total/NA	Air	3050B	527009
320-79052-5	GILBANEPM072921-1371	Total/NA	Air	3050B	527009
320-79052-7	GILBANEPM072921-1372	Total/NA	Air	3050B	527009
MB 320-527009/1-B	Method Blank	Total/NA	Air	3050B	527009
LCS 320-527009/2-B	Lab Control Sample	Total/NA	Air	3050B	527009
LCSD 320-527009/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	527009

### Analysis Batch: 527500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79052-1	GILBANEPM072921-1369	Total/NA	Air	6020	527275
320-79052-3	GILBANEPM072921-1370	Total/NA	Air	6020	527275
320-79052-5	GILBANEPM072921-1371	Total/NA	Air	6020	527275
320-79052-7	GILBANEPM072921-1372	Total/NA	Air	6020	527275
MB 320-527009/1-B	Method Blank	Total/NA	Air	6020	527275
LCS 320-527009/2-B	Lab Control Sample	Total/NA	Air	6020	527275
LCSD 320-527009/3-B	Lab Control Sample Dup	Total/NA	Air	6020	527275

## General Chemistry

### Pre Prep Batch: 526761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79052-2	GILBANETSP072921-1369	Total/NA	Air	Filter to Air	
320-79052-4	GILBANETSP072921-1370	Total/NA	Air	Filter to Air	
320-79052-6	GILBANETSP072921-1371	Total/NA	Air	Filter to Air	
320-79052-8	GILBANETSP072921-1372	Total/NA	Air	Filter to Air	

### Analysis Batch: 527220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79052-2	GILBANETSP072921-1369	Total/NA	Air	40CFR50 App B	526761
320-79052-4	GILBANETSP072921-1370	Total/NA	Air	40CFR50 App B	526761
320-79052-6	GILBANETSP072921-1371	Total/NA	Air	40CFR50 App B	526761
320-79052-8	GILBANETSP072921-1372	Total/NA	Air	40CFR50 App B	526761

### Analysis Batch: 527221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79052-1	GILBANEPM072921-1369	Total/NA	Air	PM10	
320-79052-3	GILBANEPM072921-1370	Total/NA	Air	PM10	
320-79052-5	GILBANEPM072921-1371	Total/NA	Air	PM10	
320-79052-7	GILBANEPM072921-1372	Total/NA	Air	PM10	

# Lab Chronicle

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

Job ID: 320-79052-1

**Client Sample ID: GILBANEPM072921-1369**

**Lab Sample ID: 320-79052-1**

**Date Collected: 09/15/21 06:56**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					527009	09/21/21 12:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	527275	09/22/21 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			527500	09/22/21 12:49	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0588 g	527221	09/19/21 10:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1369**

**Lab Sample ID: 320-79052-2**

**Date Collected: 09/15/21 06:56**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

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			527220	09/19/21 10:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1370**

**Lab Sample ID: 320-79052-3**

**Date Collected: 09/15/21 06:45**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					527009	09/21/21 12:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	527275	09/22/21 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			527500	09/22/21 13:11	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0329 g	527221	09/19/21 10:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1370**

**Lab Sample ID: 320-79052-4**

**Date Collected: 09/15/21 06:45**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

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			527220	09/19/21 10:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1371**

**Lab Sample ID: 320-79052-5**

**Date Collected: 09/16/21 07:01**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					527009	09/21/21 12:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	527275	09/22/21 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			527500	09/22/21 13:14	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0401 g	527221	09/19/21 10:00	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-79052-1

**Client Sample ID: GILBANETSP072921-1371**

**Lab Sample ID: 320-79052-6**

**Date Collected: 09/16/21 07:01**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

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			527220	09/19/21 10:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1372**

**Lab Sample ID: 320-79052-7**

**Date Collected: 09/16/21 06:50**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					527009	09/21/21 12:10	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	527275	09/22/21 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			527500	09/22/21 13:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0244 g	527221	09/19/21 10:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1372**

**Lab Sample ID: 320-79052-8**

**Date Collected: 09/16/21 06:50**

**Matrix: Air**

**Date Received: 09/17/21 09:50**

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			527220	09/19/21 10:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					526761	09/20/21 15:29	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-79052-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-79052-1

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

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 320-79052-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-79052-1	GILBANEPM072921-1369	Air	09/15/21 06:56	09/17/21 09:50
320-79052-2	GILBANETSP072921-1369	Air	09/15/21 06:56	09/17/21 09:50
320-79052-3	GILBANEPM072921-1370	Air	09/15/21 06:45	09/17/21 09:50
320-79052-4	GILBANETSP072921-1370	Air	09/15/21 06:45	09/17/21 09:50
320-79052-5	GILBANEPM072921-1371	Air	09/16/21 07:01	09/17/21 09:50
320-79052-6	GILBANETSP072921-1371	Air	09/16/21 07:01	09/17/21 09:50
320-79052-7	GILBANEPM072921-1372	Air	09/16/21 06:50	09/17/21 09:50
320-79052-8	GILBANETSP072921-1372	Air	09/16/21 06:50	09/17/21 09:50

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# CHAIN-OF-CUSTODY RECORD

Gilbane Federal  
 Brett Womack  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT091621AIR



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<b>Event:</b> Parcel E Phase 2 Air Monitoring September 2021
<b>Project Number:</b> J310000400	POC: [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	<b>Code</b> Matrix	A Air
					<b>Code</b> Container/Preservative	1 1x 250-mL Plastic, 4 Degrees C
<b>Equipment:</b>						1 1x Envelope, None



Event: Parcel E Phase 2 Air Monitoring September 2021

Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1 GILBANEPM072921-1369	A	09/15/2021	0656	KT	X	X								AMSE1	N1	0.00 0.00	1	VOLUME: 1715.26
2 GILBANETSP072921-1369	A	09/15/2021	0656	KT		X								AMSE1	N1	0.00 0.00	1	VOLUME: 1641.57
3 GILBANEPM072921-1370	A	09/15/2021	0645	KT	X	X								AMSE2	N1	0.00 0.00	1	VOLUME: 1770.84
4 GILBANETSP072921-1370	A	09/15/2021	0645	KT		X								AMSE2	N1	0.00 0.00	1	VOLUME: 1779.74
5 GILBANEPM072921-1371	A	09/16/2021	0701	KT	X	X								AMSE1	N1	0.00 0.00	1	VOLUME: 1725.76
6 GILBANETSP072921-1371	A	09/16/2021	0701	KT		X								AMSE1	N1	0.00 0.00	1	VOLUME: 1658.56
7 GILBANEPM072921-1372	A	09/16/2021	0650	KT	X	X								AMSE2	N1	0.00 0.00	1	VOLUME: 1505.74
8 GILBANETSP072921-1372	A	09/16/2021	0650	KT		X								AMSE2	N1	0.00 0.00	1	VOLUME: 1528.71
9																		
10																		

Turnaround Time: 5 days

<b>Relinquished by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
[REDACTED]	9/16/21	1400	[REDACTED] ETASAC	9/16/21	1400	Shipping Date: 9/16/2021/FedEx 2837 6523 0831
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

9/24/2021

Temp: 17.29C



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-79052-1

**Login Number: 79052**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-79259-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:  
Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attr   


Authorized for release by:  
9/29/2021 5:23:51 PM

 Project Manager I  
(916)374-4414  


### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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



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# Definitions/Glossary

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

Job ID: 320-79259-1

## Qualifiers

### Metals

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

## Glossary

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

# Case Narrative

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

Job ID: 320-79259-1

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**Job ID: 320-79259-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative  
320-79259-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/22/2021 10:08 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.4° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-79259-1

## Client Sample ID: GILBANEPM072921-1373

## Lab Sample ID: 320-79259-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.070	B	0.0040	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.83	0.83	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1373

## Lab Sample ID: 320-79259-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.9208		0.8681	0.8681	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1374

## Lab Sample ID: 320-79259-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016	J	0.0019	0.00029	ug/m3 (Air)	1		6020	Total/NA
Copper	0.032	B	0.0039	0.00029	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052		0.0019	0.00027	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13		0.80	0.80	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1374

## Lab Sample ID: 320-79259-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.4935		0.7901	0.7901	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1375

## Lab Sample ID: 320-79259-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0054		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.36	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.021		0.00069	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: GILBANETSP072921-1375

## Lab Sample ID: 320-79259-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	37.6826		0.2962	0.2962	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1376

## Lab Sample ID: 320-79259-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.037	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1376

## Lab Sample ID: 320-79259-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	31.2592		0.2737	0.2737	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79259-1

Client Sample ID: GILBANEPM072921-1373

Lab Sample ID: 320-79259-1

Date Collected: 09/16/21 15:26

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.0020	0.00030	ug/m3 (Air)		09/28/21 10:50	09/29/21 11:57	1
Copper	0.070	B	0.0040	0.00030	ug/m3 (Air)		09/28/21 10:50	09/29/21 11:57	1
Manganese	0.011		0.0020	0.00028	ug/m3 (Air)		09/28/21 10:50	09/29/21 11:57	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.83	0.83	ug/m3			09/26/21 21:00	1

Client Sample ID: GILBANETSP072921-1373

Lab Sample ID: 320-79259-2

Date Collected: 09/16/21 15:26

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.9208		0.8681	0.8681	ug/m3 (Air)			09/26/21 21:00	1

Client Sample ID: GILBANEPM072921-1374

Lab Sample ID: 320-79259-3

Date Collected: 09/16/21 15:20

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016	J	0.0019	0.00029	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:06	1
Copper	0.032	B	0.0039	0.00029	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:06	1
Manganese	0.0052		0.0019	0.00027	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:06	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.80	0.80	ug/m3			09/26/21 21:00	1

Client Sample ID: GILBANETSP072921-1374

Lab Sample ID: 320-79259-4

Date Collected: 09/16/21 15:20

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.4935		0.7901	0.7901	ug/m3 (Air)			09/26/21 21:00	1

Client Sample ID: GILBANEPM072921-1375

Lab Sample ID: 320-79259-5

Date Collected: 09/21/21 07:30

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054		0.00069	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:09	1
Copper	0.36	B	0.0014	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:09	1
Manganese	0.021		0.00069	0.000097	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:09	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79259-1

**Client Sample ID: GILBANEPM072921-1375**

**Lab Sample ID: 320-79259-5**

Date Collected: 09/21/21 07:30

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

**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			09/26/21 21:00	1

**Client Sample ID: GILBANETSP072921-1375**

**Lab Sample ID: 320-79259-6**

Date Collected: 09/21/21 07:30

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.6826		0.2962	0.2962	ug/m3 (Air)			09/26/21 21:00	1

**Client Sample ID: GILBANEPM072921-1376**

**Lab Sample ID: 320-79259-7**

Date Collected: 09/21/21 07:10

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0023		0.00068	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:12	1
Copper	0.037	B	0.0014	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:12	1
Manganese	0.011		0.00068	0.000095	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.28	0.28	ug/m3			09/26/21 21:00	1

**Client Sample ID: GILBANETSP072921-1376**

**Lab Sample ID: 320-79259-8**

Date Collected: 09/21/21 07:10

Matrix: Air

Date Received: 09/22/21 10:08

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.2592		0.2737	0.2737	ug/m3 (Air)			09/26/21 21:00	1

# QC Sample Results

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

Job ID: 320-79259-1

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

**Lab Sample ID: MB 320-529188/1-B**  
**Matrix: Air**  
**Analysis Batch: 529669**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 529271**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0012	0.00018	ug/m3 (Air)		09/28/21 10:50	09/29/21 09:47	1
Copper	0.000211	J	0.0024	0.00018	ug/m3 (Air)		09/28/21 10:50	09/29/21 09:47	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		09/28/21 10:50	09/29/21 09:47	1

**Lab Sample ID: LCS 320-529188/2-B**  
**Matrix: Air**  
**Analysis Batch: 529669**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 529271**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.258		ug/m3 (Air)		108	85 - 110
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110

**Lab Sample ID: LCSD 320-529188/3-B**  
**Matrix: Air**  
**Analysis Batch: 529669**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 529271**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Lead	0.240	0.241		ug/m3 (Air)		100	86 - 111	1	15
Copper	0.240	0.257		ug/m3 (Air)		107	85 - 110	1	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	0	15

# QC Association Summary

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

Job ID: 320-79259-1

## Metals

### Pre Prep Batch: 529188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79259-1	GILBANEPM072921-1373	Total/NA	Air	Filter to Air	
320-79259-3	GILBANEPM072921-1374	Total/NA	Air	Filter to Air	
320-79259-5	GILBANEPM072921-1375	Total/NA	Air	Filter to Air	
320-79259-7	GILBANEPM072921-1376	Total/NA	Air	Filter to Air	
MB 320-529188/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-529188/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-529188/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 529271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79259-1	GILBANEPM072921-1373	Total/NA	Air	3050B	529188
320-79259-3	GILBANEPM072921-1374	Total/NA	Air	3050B	529188
320-79259-5	GILBANEPM072921-1375	Total/NA	Air	3050B	529188
320-79259-7	GILBANEPM072921-1376	Total/NA	Air	3050B	529188
MB 320-529188/1-B	Method Blank	Total/NA	Air	3050B	529188
LCS 320-529188/2-B	Lab Control Sample	Total/NA	Air	3050B	529188
LCSD 320-529188/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	529188

### Analysis Batch: 529669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79259-1	GILBANEPM072921-1373	Total/NA	Air	6020	529271
320-79259-3	GILBANEPM072921-1374	Total/NA	Air	6020	529271
320-79259-5	GILBANEPM072921-1375	Total/NA	Air	6020	529271
320-79259-7	GILBANEPM072921-1376	Total/NA	Air	6020	529271
MB 320-529188/1-B	Method Blank	Total/NA	Air	6020	529271
LCS 320-529188/2-B	Lab Control Sample	Total/NA	Air	6020	529271
LCSD 320-529188/3-B	Lab Control Sample Dup	Total/NA	Air	6020	529271

## General Chemistry

### Pre Prep Batch: 529498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79259-2	GILBANETSP072921-1373	Total/NA	Air	Filter to Air	
320-79259-4	GILBANETSP072921-1374	Total/NA	Air	Filter to Air	
320-79259-6	GILBANETSP072921-1375	Total/NA	Air	Filter to Air	
320-79259-8	GILBANETSP072921-1376	Total/NA	Air	Filter to Air	

### Analysis Batch: 529649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79259-1	GILBANEPM072921-1373	Total/NA	Air	PM10	
320-79259-3	GILBANEPM072921-1374	Total/NA	Air	PM10	
320-79259-5	GILBANEPM072921-1375	Total/NA	Air	PM10	
320-79259-7	GILBANEPM072921-1376	Total/NA	Air	PM10	

### Analysis Batch: 529650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79259-2	GILBANETSP072921-1373	Total/NA	Air	40CFR50 App B	529498
320-79259-4	GILBANETSP072921-1374	Total/NA	Air	40CFR50 App B	529498
320-79259-6	GILBANETSP072921-1375	Total/NA	Air	40CFR50 App B	529498
320-79259-8	GILBANETSP072921-1376	Total/NA	Air	40CFR50 App B	529498

# Lab Chronicle

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

Job ID: 320-79259-1

**Client Sample ID: GILBANEPM072921-1373**

**Lab Sample ID: 320-79259-1**

Date Collected: 09/16/21 15:26

Matrix: Air

Date Received: 09/22/21 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 11:57	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0121 g	529649	09/26/21 21:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1373**

**Lab Sample ID: 320-79259-2**

Date Collected: 09/16/21 15:26

Matrix: Air

Date Received: 09/22/21 10:08

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			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1374**

**Lab Sample ID: 320-79259-3**

Date Collected: 09/16/21 15:20

Matrix: Air

Date Received: 09/22/21 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 12:06	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0082 g	529649	09/26/21 21:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1374**

**Lab Sample ID: 320-79259-4**

Date Collected: 09/16/21 15:20

Matrix: Air

Date Received: 09/22/21 10:08

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			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1375**

**Lab Sample ID: 320-79259-5**

Date Collected: 09/21/21 07:30

Matrix: Air

Date Received: 09/22/21 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 12:09	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0513 g	529649	09/26/21 21:00	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-79259-1

**Client Sample ID: GILBANETSP072921-1375**

**Lab Sample ID: 320-79259-6**

Date Collected: 09/21/21 07:30

Matrix: Air

Date Received: 09/22/21 10:08

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			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1376**

**Lab Sample ID: 320-79259-7**

Date Collected: 09/21/21 07:10

Matrix: Air

Date Received: 09/22/21 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 12:12	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0370 g	529649	09/26/21 21:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1376**

**Lab Sample ID: 320-79259-8**

Date Collected: 09/21/21 07:10

Matrix: Air

Date Received: 09/22/21 10:08

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			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-79259-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-79259-1

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

**Protocol References:**

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

**Laboratory References:**

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



# Sample Summary

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

Job ID: 320-79259-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-79259-1	GILBANEPM072921-1373	Air	09/16/21 15:26	09/22/21 10:08
320-79259-2	GILBANETSP072921-1373	Air	09/16/21 15:26	09/22/21 10:08
320-79259-3	GILBANEPM072921-1374	Air	09/16/21 15:20	09/22/21 10:08
320-79259-4	GILBANETSP072921-1374	Air	09/16/21 15:20	09/22/21 10:08
320-79259-5	GILBANEPM072921-1375	Air	09/21/21 07:30	09/22/21 10:08
320-79259-6	GILBANETSP072921-1375	Air	09/21/21 07:30	09/22/21 10:08
320-79259-7	GILBANEPM072921-1376	Air	09/21/21 07:10	09/22/21 10:08
320-79259-8	GILBANETSP072921-1376	Air	09/21/21 07:10	09/22/21 10:08

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# CHAIN-OF-CUSTODY RECORD

Gilbane Federal  
 Brett Womack  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT092121AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring September 2021
Project Number: J310000400	POC: [REDACTED]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Code	Matrix
					A	Air
Equipment:					Code	Container/Preservative
					1	1x 250-mL Plastic, 4 Degrees C
					1	1x Envelope, None



320-79259 Chain of Custody

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Event: Parcel E Phase 2 Air Monitoring September 2021																		
Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	GILBANEPM072921-1373	A	09/16/2021	1526	KT	X	X						AMSE1	N2	0.00	0.00	1	VOLUME: 601.31
2	GILBANETSP072921-1373	A	09/16/2021	1526	KT		X						AMSE1	N2	0.00	0.00	1	VOLUME: 575.95
3	GILBANEPM072921-1374	A	09/16/2021	1520	KT	X	X						AMSE2	N2	0.00	0.00	1	VOLUME: 622.46
4	GILBANETSP072921-1374	A	09/16/2021	1520	KT		X						AMSE2	N2	0.00	0.00	1	VOLUME: 632.82
5	GILBANEPM072921-1375	A	09/21/2021	0730	KT	X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1733.07
6	GILBANETSP072921-1375	A	09/21/2021	0730	KT		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1687.78
7	GILBANEPM072921-1376	A	09/21/2021	0710	KT	X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1765.84
8	GILBANETSP072921-1376	A	09/21/2021	0710	KT		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1826.66
9																		
10																		

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9/21/21	1500	Fd Gx	9/21/21	1500	Shipping Date: 9/21/2021/FedEx 2839 7329 2362
			[REDACTED] ETASAC	9-22-21	10:08	
						Received by Laboratory: (Signature, Date, Time) & condition

9/29/2021

# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-79259-1

**Login Number: 79259**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-79400-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:  
Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

Authorized for release by:  
9/30/2021 4:09:16 PM

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

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

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



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# Definitions/Glossary

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

Job ID: 320-79400-1

## Qualifiers

### Metals

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

## Glossary

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

# Case Narrative

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

Job ID: 320-79400-1

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**Job ID: 320-79400-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative**  
**320-79400-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/24/2021 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 16.7° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-79400-1

## Client Sample ID: GILBANEPM072921-1377

## Lab Sample ID: 320-79400-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0041		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.092	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.021		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	28		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP072921-1377

## Lab Sample ID: 320-79400-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	60.5109		0.3020	0.3020	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM072921-1378

## Lab Sample ID: 320-79400-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.020	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.016		0.00069	0.000096	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: GILBANETSP072921-1378

## Lab Sample ID: 320-79400-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.6236		0.2814	0.2814	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1459

## Lab Sample ID: 320-79400-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.096	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0099		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	18		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1459

## Lab Sample ID: 320-79400-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	35.4444		0.2969	0.2969	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1460

## Lab Sample ID: 320-79400-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0015		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.052	B	0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0072		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1460

## Lab Sample ID: 320-79400-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	23.2544		0.2768	0.2768	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79400-1

**Client Sample ID: GILBANEPM072921-1377**

**Lab Sample ID: 320-79400-1**

Date Collected: 09/22/21 07:00

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0041		0.00068	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:16	1
Copper	0.092	B	0.0014	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:16	1
Manganese	0.021		0.00068	0.000095	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.28	0.28	ug/m3			09/26/21 21:00	1

**Client Sample ID: GILBANETSP072921-1377**

**Lab Sample ID: 320-79400-2**

Date Collected: 09/22/21 07:00

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	60.5109		0.3020	0.3020	ug/m3 (Air)			09/26/21 21:00	1

**Client Sample ID: GILBANEPM072921-1378**

**Lab Sample ID: 320-79400-3**

Date Collected: 09/22/21 06:51

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.00069	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:19	1
Copper	0.020	B	0.0014	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:19	1
Manganese	0.016		0.00069	0.000096	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:19	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			09/26/21 21:00	1

**Client Sample ID: GILBANETSP072921-1378**

**Lab Sample ID: 320-79400-4**

Date Collected: 09/22/21 06:51

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.6236		0.2814	0.2814	ug/m3 (Air)			09/26/21 21:00	1

**Client Sample ID: GILBANEPM091421-1459**

**Lab Sample ID: 320-79400-5**

Date Collected: 09/23/21 07:31

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.00068	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:22	1
Copper	0.096	B	0.0014	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:22	1
Manganese	0.0099		0.00068	0.000095	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:22	1

Euofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79400-1

**Client Sample ID: GILBANEPM091421-1459**

**Lab Sample ID: 320-79400-5**

Date Collected: 09/23/21 07:31

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18		0.28	0.28	ug/m3			09/26/21 21:00	1

**Client Sample ID: GILBANETSP091421-1459**

**Lab Sample ID: 320-79400-6**

Date Collected: 09/23/21 07:31

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.4444		0.2969	0.2969	ug/m3 (Air)			09/26/21 21:00	1

**Client Sample ID: GILBANEPM091421-1460**

**Lab Sample ID: 320-79400-7**

Date Collected: 09/23/21 07:00

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0015		0.00067	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:25	1
Copper	0.052	B	0.0013	0.00010	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:25	1
Manganese	0.0072		0.00067	0.000094	ug/m3 (Air)		09/28/21 10:50	09/29/21 12:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.28	0.28	ug/m3			09/26/21 21:00	1

**Client Sample ID: GILBANETSP091421-1460**

**Lab Sample ID: 320-79400-8**

Date Collected: 09/23/21 07:00

Matrix: Air

Date Received: 09/24/21 09:40

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.2544		0.2768	0.2768	ug/m3 (Air)			09/26/21 21:00	1

# QC Sample Results

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

Job ID: 320-79400-1

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

**Lab Sample ID: MB 320-529188/1-B**  
**Matrix: Air**  
**Analysis Batch: 529669**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 529271**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		09/28/21 10:50	09/29/21 09:47	1
Copper	0.000211	J	0.0024	0.00018	ug/m3 (Air)		09/28/21 10:50	09/29/21 09:47	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		09/28/21 10:50	09/29/21 09:47	1

**Lab Sample ID: LCS 320-529188/2-B**  
**Matrix: Air**  
**Analysis Batch: 529669**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 529271**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.244		ug/m3 (Air)		102	86 - 111
Copper	0.240	0.258		ug/m3 (Air)		108	85 - 110
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110

**Lab Sample ID: LCSD 320-529188/3-B**  
**Matrix: Air**  
**Analysis Batch: 529669**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 529271**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.241		ug/m3 (Air)		100	86 - 111	1	15
Copper	0.240	0.257		ug/m3 (Air)		107	85 - 110	1	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	0	15

# QC Association Summary

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

Job ID: 320-79400-1

## Metals

### Pre Prep Batch: 529188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79400-1	GILBANEPM072921-1377	Total/NA	Air	Filter to Air	
320-79400-3	GILBANEPM072921-1378	Total/NA	Air	Filter to Air	
320-79400-5	GILBANEPM091421-1459	Total/NA	Air	Filter to Air	
320-79400-7	GILBANEPM091421-1460	Total/NA	Air	Filter to Air	
MB 320-529188/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-529188/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-529188/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 529271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79400-1	GILBANEPM072921-1377	Total/NA	Air	3050B	529188
320-79400-3	GILBANEPM072921-1378	Total/NA	Air	3050B	529188
320-79400-5	GILBANEPM091421-1459	Total/NA	Air	3050B	529188
320-79400-7	GILBANEPM091421-1460	Total/NA	Air	3050B	529188
MB 320-529188/1-B	Method Blank	Total/NA	Air	3050B	529188
LCS 320-529188/2-B	Lab Control Sample	Total/NA	Air	3050B	529188
LCSD 320-529188/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	529188

### Analysis Batch: 529669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79400-1	GILBANEPM072921-1377	Total/NA	Air	6020	529271
320-79400-3	GILBANEPM072921-1378	Total/NA	Air	6020	529271
320-79400-5	GILBANEPM091421-1459	Total/NA	Air	6020	529271
320-79400-7	GILBANEPM091421-1460	Total/NA	Air	6020	529271
MB 320-529188/1-B	Method Blank	Total/NA	Air	6020	529271
LCS 320-529188/2-B	Lab Control Sample	Total/NA	Air	6020	529271
LCSD 320-529188/3-B	Lab Control Sample Dup	Total/NA	Air	6020	529271

## General Chemistry

### Pre Prep Batch: 529498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79400-2	GILBANETSP072921-1377	Total/NA	Air	Filter to Air	
320-79400-4	GILBANETSP072921-1378	Total/NA	Air	Filter to Air	
320-79400-6	GILBANETSP091421-1459	Total/NA	Air	Filter to Air	
320-79400-8	GILBANETSP091421-1460	Total/NA	Air	Filter to Air	

### Analysis Batch: 529649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79400-1	GILBANEPM072921-1377	Total/NA	Air	PM10	
320-79400-3	GILBANEPM072921-1378	Total/NA	Air	PM10	
320-79400-5	GILBANEPM091421-1459	Total/NA	Air	PM10	
320-79400-7	GILBANEPM091421-1460	Total/NA	Air	PM10	

### Analysis Batch: 529650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79400-2	GILBANETSP072921-1377	Total/NA	Air	40CFR50 App B	529498
320-79400-4	GILBANETSP072921-1378	Total/NA	Air	40CFR50 App B	529498
320-79400-6	GILBANETSP091421-1459	Total/NA	Air	40CFR50 App B	529498
320-79400-8	GILBANETSP091421-1460	Total/NA	Air	40CFR50 App B	529498

Eurofins TestAmerica, Sacramento

# Lab Chronicle

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

Job ID: 320-79400-1

**Client Sample ID: GILBANEPM072921-1377**

**Lab Sample ID: 320-79400-1**

**Date Collected: 09/22/21 07:00**

**Matrix: Air**

**Date Received: 09/24/21 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 12:16	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0490 g	529649	09/26/21 21:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1377**

**Lab Sample ID: 320-79400-2**

**Date Collected: 09/22/21 07:00**

**Matrix: Air**

**Date Received: 09/24/21 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM072921-1378**

**Lab Sample ID: 320-79400-3**

**Date Collected: 09/22/21 06:51**

**Matrix: Air**

**Date Received: 09/24/21 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 12:19	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0550 g	529649	09/26/21 21:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP072921-1378**

**Lab Sample ID: 320-79400-4**

**Date Collected: 09/22/21 06:51**

**Matrix: Air**

**Date Received: 09/24/21 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1459**

**Lab Sample ID: 320-79400-5**

**Date Collected: 09/23/21 07:31**

**Matrix: Air**

**Date Received: 09/24/21 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 12:22	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0323 g	529649	09/26/21 21:00	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-79400-1

**Client Sample ID: GILBANETSP091421-1459**

**Lab Sample ID: 320-79400-6**

Date Collected: 09/23/21 07:31

Matrix: Air

Date Received: 09/24/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1460**

**Lab Sample ID: 320-79400-7**

Date Collected: 09/23/21 07:00

Matrix: Air

Date Received: 09/24/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					529188	09/28/21 09:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	529271	09/28/21 10:50	NIM	TAL SAC
Total/NA	Analysis	6020		1			529669	09/29/21 12:25	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0277 g	529649	09/26/21 21:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1460**

**Lab Sample ID: 320-79400-8**

Date Collected: 09/23/21 07:00

Matrix: Air

Date Received: 09/24/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			529650	09/26/21 21:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					529498	09/29/21 09:57	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-79400-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-79400-1

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

**Protocol References:**

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

**Laboratory References:**

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



# Sample Summary

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

Job ID: 320-79400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-79400-1	GILBANEPM072921-1377	Air	09/22/21 07:00	09/24/21 09:40
320-79400-2	GILBANETSP072921-1377	Air	09/22/21 07:00	09/24/21 09:40
320-79400-3	GILBANEPM072921-1378	Air	09/22/21 06:51	09/24/21 09:40
320-79400-4	GILBANETSP072921-1378	Air	09/22/21 06:51	09/24/21 09:40
320-79400-5	GILBANEPM091421-1459	Air	09/23/21 07:31	09/24/21 09:40
320-79400-6	GILBANETSP091421-1459	Air	09/23/21 07:31	09/24/21 09:40
320-79400-7	GILBANEPM091421-1460	Air	09/23/21 07:00	09/24/21 09:40
320-79400-8	GILBANETSP091421-1460	Air	09/23/21 07:00	09/24/21 09:40

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# CHAIN-OF-CUSTODY RECORD

Gilbane Federal  
 Brett Womack  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT092321AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring September 2021
Project Number: J310000400	POC: [REDACTED]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu								Code	Matrix
												A	Air
Equipment:												Code	Container/Preservative
												1	1x 250-mL Plastic, 4 Degrees C
												1	1x Envelope, None



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Event: Parcel E Phase 2 Air Monitoring September 2021																		
Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	GILBANEPM072921-1377	A	09/22/2021	0700	KT	X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1759.59
2	GILBANETSP072921-1377	A	09/22/2021	0700	KT		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1655.90
3	GILBANEPM072921-1378	A	09/22/2021	0651	KT	X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1742.33
4	GILBANETSP072921-1378	A	09/22/2021	0651	KT		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1776.72
5	GILBANEPM091421-1459	A	09/23/2021	0731	KT	X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1760.22
6	GILBANETSP091421-1459	A	09/23/2021	0731	KT		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1684.33
7	GILBANEPM091421-1460	A	09/23/2021	0700	KT	X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1788.56
8	GILBANETSP091421-1460	A	09/23/2021	0700	KT		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1806.11
9																		
10																		

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9/23/21	1400	FedEx	9/23/21	1400	Shipping Date: 9/23/2021/FedEx 2840 8257 2652
			[REDACTED] ETASAC	9-24-21	09:45	
						Received by Laboratory: (Signature, Date, Time) & condition

9/30/2021

# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-79400-1

**Login Number: 79400**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-79590-1

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

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

Authorized for release by:  
10/7/2021 3:58:18 PM

[REDACTED] Project Manager I  
(916)374-4383

Designee for

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

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



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# Definitions/Glossary

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

Job ID: 320-79590-1

## Glossary

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

# Case Narrative

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

Job ID: 320-79590-1

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**Job ID: 320-79590-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

## Narrative

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**Job Narrative**  
**320-79590-1**

## Receipt

The samples were received on 9/29/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.7° C.

## Metals

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

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# Detection Summary

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

Job ID: 320-79590-1

## Client Sample ID: GILBANEPM091421-1461

## Lab Sample ID: 320-79590-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0049		0.0025	0.00038	ug/m3 (Air)	1		6020	Total/NA
Copper	0.32		0.0051	0.00038	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.0025	0.00035	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	24		1.1	1.1	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1461

## Lab Sample ID: 320-79590-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.1885		1.1044	1.1044	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1462

## Lab Sample ID: 320-79590-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0036		0.0023	0.00035	ug/m3 (Air)	1		6020	Total/NA
Copper	0.062		0.0047	0.00035	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0099		0.0023	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.97	0.97	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1462

## Lab Sample ID: 320-79590-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.7018		0.9683	0.9683	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1463

## Lab Sample ID: 320-79590-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.062		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.36		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.040		0.00071	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.30	0.30	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1463

## Lab Sample ID: 320-79590-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	56.4881		0.3104	0.3104	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1464

## Lab Sample ID: 320-79590-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00093		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.012		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0034		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.7		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1464

## Lab Sample ID: 320-79590-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	15.2509		0.2878	0.2878	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79590-1

**Client Sample ID: GILBANEPM091421-1461**

**Lab Sample ID: 320-79590-1**

Date Collected: 09/23/21 14:00

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0049		0.0025	0.00038	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:16	1
Copper	0.32		0.0051	0.00038	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:16	1
Manganese	0.015		0.0025	0.00035	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	24		1.1	1.1	ug/m3			10/06/21 15:07	1

**Client Sample ID: GILBANETSP091421-1461**

**Lab Sample ID: 320-79590-2**

Date Collected: 09/23/21 14:00

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.1885		1.1044	1.1044	ug/m3 (Air)			09/30/21 17:00	1

**Client Sample ID: GILBANEPM091421-1462**

**Lab Sample ID: 320-79590-3**

Date Collected: 09/23/21 14:08

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036		0.0023	0.00035	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:26	1
Copper	0.062		0.0047	0.00035	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:26	1
Manganese	0.0099		0.0023	0.00033	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.97	0.97	ug/m3			10/06/21 15:07	1

**Client Sample ID: GILBANETSP091421-1462**

**Lab Sample ID: 320-79590-4**

Date Collected: 09/23/21 14:08

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.7018		0.9683	0.9683	ug/m3 (Air)			09/30/21 17:00	1

**Client Sample ID: GILBANEPM091421-1463**

**Lab Sample ID: 320-79590-5**

Date Collected: 09/28/21 06:55

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.062		0.00071	0.00011	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:29	1
Copper	0.36		0.0014	0.00011	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:29	1
Manganese	0.040		0.00071	0.00010	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:29	1

Eurolins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79590-1

**Client Sample ID: GILBANEPM091421-1463**

**Lab Sample ID: 320-79590-5**

Date Collected: 09/28/21 06:55

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.30	0.30	ug/m3			10/06/21 15:07	1

**Client Sample ID: GILBANETSP091421-1463**

**Lab Sample ID: 320-79590-6**

Date Collected: 09/28/21 06:55

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.4881		0.3104	0.3104	ug/m3 (Air)			09/30/21 17:00	1

**Client Sample ID: GILBANEPM091421-1464**

**Lab Sample ID: 320-79590-7**

Date Collected: 09/28/21 06:45

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00093		0.00069	0.00010	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:32	1
Copper	0.012		0.0014	0.00010	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:32	1
Manganese	0.0034		0.00069	0.000097	ug/m3 (Air)		10/05/21 07:00	10/06/21 14:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.7		0.29	0.29	ug/m3			10/06/21 15:07	1

**Client Sample ID: GILBANETSP091421-1464**

**Lab Sample ID: 320-79590-8**

Date Collected: 09/28/21 06:45

Matrix: Air

Date Received: 09/29/21 10:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.2509		0.2878	0.2878	ug/m3 (Air)			09/30/21 17:00	1

# QC Sample Results

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

Job ID: 320-79590-1

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

**Lab Sample ID: MB 320-531111/1-B**  
**Matrix: Air**  
**Analysis Batch: 531646**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 531136**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/05/21 07:00	10/06/21 13:54	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/05/21 07:00	10/06/21 13:54	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/05/21 07:00	10/06/21 13:54	1

**Lab Sample ID: LCS 320-531111/2-B**  
**Matrix: Air**  
**Analysis Batch: 531646**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 531136**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.236		ug/m3 (Air)		98	88 - 110

**Lab Sample ID: LCSD 320-531111/3-B**  
**Matrix: Air**  
**Analysis Batch: 531646**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 531136**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.246		ug/m3 (Air)		102	86 - 111	3	15
Copper	0.240	0.249		ug/m3 (Air)		104	85 - 110	3	15
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110	3	15

# QC Association Summary

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

Job ID: 320-79590-1

## Metals

### Pre Prep Batch: 531111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79590-1	GILBANEPM091421-1461	Total/NA	Air	Filter to Air	
320-79590-3	GILBANEPM091421-1462	Total/NA	Air	Filter to Air	
320-79590-5	GILBANEPM091421-1463	Total/NA	Air	Filter to Air	
320-79590-7	GILBANEPM091421-1464	Total/NA	Air	Filter to Air	
MB 320-531111/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-531111/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-531111/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 531136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79590-1	GILBANEPM091421-1461	Total/NA	Air	3050B	531111
320-79590-3	GILBANEPM091421-1462	Total/NA	Air	3050B	531111
320-79590-5	GILBANEPM091421-1463	Total/NA	Air	3050B	531111
320-79590-7	GILBANEPM091421-1464	Total/NA	Air	3050B	531111
MB 320-531111/1-B	Method Blank	Total/NA	Air	3050B	531111
LCS 320-531111/2-B	Lab Control Sample	Total/NA	Air	3050B	531111
LCSD 320-531111/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	531111

### Analysis Batch: 531646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79590-1	GILBANEPM091421-1461	Total/NA	Air	6020	531136
320-79590-3	GILBANEPM091421-1462	Total/NA	Air	6020	531136
320-79590-5	GILBANEPM091421-1463	Total/NA	Air	6020	531136
320-79590-7	GILBANEPM091421-1464	Total/NA	Air	6020	531136
MB 320-531111/1-B	Method Blank	Total/NA	Air	6020	531136
LCS 320-531111/2-B	Lab Control Sample	Total/NA	Air	6020	531136
LCSD 320-531111/3-B	Lab Control Sample Dup	Total/NA	Air	6020	531136

## General Chemistry

### Pre Prep Batch: 531636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79590-2	GILBANETSP091421-1461	Total/NA	Air	Filter to Air	
320-79590-4	GILBANETSP091421-1462	Total/NA	Air	Filter to Air	
320-79590-6	GILBANETSP091421-1463	Total/NA	Air	Filter to Air	
320-79590-8	GILBANETSP091421-1464	Total/NA	Air	Filter to Air	

### Analysis Batch: 531637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79590-2	GILBANETSP091421-1461	Total/NA	Air	40CFR50 App B	531636
320-79590-4	GILBANETSP091421-1462	Total/NA	Air	40CFR50 App B	531636
320-79590-6	GILBANETSP091421-1463	Total/NA	Air	40CFR50 App B	531636
320-79590-8	GILBANETSP091421-1464	Total/NA	Air	40CFR50 App B	531636

### Analysis Batch: 531638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79590-1	GILBANEPM091421-1461	Total/NA	Air	PM10	
320-79590-3	GILBANEPM091421-1462	Total/NA	Air	PM10	
320-79590-5	GILBANEPM091421-1463	Total/NA	Air	PM10	
320-79590-7	GILBANEPM091421-1464	Total/NA	Air	PM10	

Eurofins TestAmerica, Sacramento

# Lab Chronicle

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

Job ID: 320-79590-1

**Client Sample ID: GILBANEPM091421-1461**

**Lab Sample ID: 320-79590-1**

Date Collected: 09/23/21 14:00

Matrix: Air

Date Received: 09/29/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					531111	10/05/21 05:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	531136	10/05/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			531646	10/06/21 14:16	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0115 g	531638	10/06/21 15:07	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1461**

**Lab Sample ID: 320-79590-2**

Date Collected: 09/23/21 14:00

Matrix: Air

Date Received: 09/29/21 10:10

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			531637	09/30/21 17:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					531636	10/06/21 14:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1462**

**Lab Sample ID: 320-79590-3**

Date Collected: 09/23/21 14:08

Matrix: Air

Date Received: 09/29/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					531111	10/05/21 05:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	531136	10/05/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			531646	10/06/21 14:26	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0104 g	531638	10/06/21 15:07	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1462**

**Lab Sample ID: 320-79590-4**

Date Collected: 09/23/21 14:08

Matrix: Air

Date Received: 09/29/21 10:10

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			531637	09/30/21 17:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					531636	10/06/21 14:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1463**

**Lab Sample ID: 320-79590-5**

Date Collected: 09/28/21 06:55

Matrix: Air

Date Received: 09/29/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					531111	10/05/21 05:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	531136	10/05/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			531646	10/06/21 14:29	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0524 g	531638	10/06/21 15:07	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-79590-1

**Client Sample ID: GILBANETSP091421-1463**  
**Date Collected: 09/28/21 06:55**  
**Date Received: 09/29/21 10:10**

**Lab Sample ID: 320-79590-6**  
**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			531637	09/30/21 17:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					531636	10/06/21 14:57	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1464**  
**Date Collected: 09/28/21 06:45**  
**Date Received: 09/29/21 10:10**

**Lab Sample ID: 320-79590-7**  
**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					531111	10/05/21 05:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	531136	10/05/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			531646	10/06/21 14:32	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0116 g	531638	10/06/21 15:07	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1464**  
**Date Collected: 09/28/21 06:45**  
**Date Received: 09/29/21 10:10**

**Lab Sample ID: 320-79590-8**  
**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			531637	09/30/21 17:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					531636	10/06/21 14:57	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-79590-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-79590-1

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

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 320-79590-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-79590-1	GILBANEPM091421-1461	Air	09/23/21 14:00	09/29/21 10:10
320-79590-2	GILBANETSP091421-1461	Air	09/23/21 14:00	09/29/21 10:10
320-79590-3	GILBANEPM091421-1462	Air	09/23/21 14:08	09/29/21 10:10
320-79590-4	GILBANETSP091421-1462	Air	09/23/21 14:08	09/29/21 10:10
320-79590-5	GILBANEPM091421-1463	Air	09/28/21 06:55	09/29/21 10:10
320-79590-6	GILBANETSP091421-1463	Air	09/28/21 06:55	09/29/21 10:10
320-79590-7	GILBANEPM091421-1464	Air	09/28/21 06:45	09/29/21 10:10
320-79590-8	GILBANETSP091421-1464	Air	09/28/21 06:45	09/29/21 10:10

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**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
Brett Womack  
1655 Grant Street, Suite 1200, Concord, CA 94520  
bwomack@gilbaneco.com

**COC # KT092821AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring September 2021
<b>Project Number:</b> J310000400	POC: [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	<b>Code</b> Matrix	A Air
			<b>Code</b> Container/Preservative	1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None
<b>Equipment:</b>	 320-79590 Chain of Custody			

Event: Parcel E Phase 2 Air Monitoring September 2021																				
Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
					1	1	1													
1	GILBANEPM091421-1461	A	09/23/2021	1400	KT	X		X							AMSE1	N2	0.00	0.00	1	VOLUME: 474.38
2	GILBANETSP091421-1461	A	09/23/2021	1400	KT		X								AMSE1	N2	0.00	0.00	1	VOLUME: 452.73
3	GILBANEPM091421-1462	A	09/23/2021	1408	KT	X		X							AMSE2	N2	0.00	0.00	1	VOLUME: 513.51
4	GILBANETSP091421-1462	A	09/23/2021	1408	KT		X								AMSE2	N2	0.00	0.00	1	VOLUME: 516.35
5	GILBANEPM091421-1463	A	09/28/2021	0655	KT	X		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1686.92
6	GILBANETSP091421-1463	A	09/28/2021	0655	KT		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1610.96
7	GILBANEPM091421-1464	A	09/28/2021	0645	KT	X		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1731.65
8	GILBANETSP091421-1464	A	09/28/2021	0645	KT		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1737.60
9																				
10																				

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9/22/21	1600	[REDACTED]	9/28/21	1600	Shipping Date: 9/28/2021/FedEx 7748 2242 0011
			[REDACTED] ETASAC	9-29-21	10:10	
						Received by Laboratory: (Signature, Date, Time) & condition

Gilbane.Navy\_COC\_Field  
September 28, 2021

19.7°C

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10/7/2021



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-79590-1

**Login Number: 79590**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1495334
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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-79737-1

Client Project/Site: Hunters Point, Parcel E, Phase 2  
Revision: 1

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

---

Authorized for release by:  
10/14/2021 5:21:27 PM

[REDACTED] Senior Project Manager  
(916)374-4362

[REDACTED]

Designee for

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

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

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



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# Definitions/Glossary

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

Job ID: 320-79737-1

## Glossary

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

# Case Narrative

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

Job ID: 320-79737-1

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**Job ID: 320-79737-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative  
320-79737-1 Rev(1)**

**Revision 1**

The answer to "Samples were received on ice" has been corrected from "True" to "False" on the Login Sample Receipt Checklist.

**Receipt**

The samples were received on 10/1/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.9° C.

**Metals**

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



# Detection Summary

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

Job ID: 320-79737-1

## Client Sample ID: GILBANEPM091421-1465

## Lab Sample ID: 320-79737-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.050		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.34		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.043		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	62		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1465

## Lab Sample ID: 320-79737-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	81.5528		0.3027	0.3027	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1466

## Lab Sample ID: 320-79737-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.012		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0051		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1466

## Lab Sample ID: 320-79737-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.2088		0.2786	0.2786	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1467

## Lab Sample ID: 320-79737-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.030		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.28		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.033		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	60		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1467

## Lab Sample ID: 320-79737-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	78.5137		0.3015	0.3015	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1468

## Lab Sample ID: 320-79737-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0044		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.36		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0087		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1468

## Lab Sample ID: 320-79737-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.5860		0.2767	0.2767	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79737-1

**Client Sample ID: GILBANEPM091421-1465**

**Lab Sample ID: 320-79737-1**

Date Collected: 09/29/21 07:00

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.050		0.00068	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:12	1
Copper	0.34		0.0014	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:12	1
Manganese	0.043		0.00068	0.000095	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	62		0.28	0.28	ug/m3			10/06/21 09:00	1

**Client Sample ID: GILBANETSP091421-1465**

**Lab Sample ID: 320-79737-2**

Date Collected: 09/29/21 07:00

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	81.5528		0.3027	0.3027	ug/m3 (Air)			10/06/21 09:00	1

**Client Sample ID: GILBANEPM091421-1466**

**Lab Sample ID: 320-79737-3**

Date Collected: 09/29/21 06:55

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016		0.00067	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:22	1
Copper	0.012		0.0013	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:22	1
Manganese	0.0051		0.00067	0.000094	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.28	0.28	ug/m3			10/06/21 09:00	1

**Client Sample ID: GILBANETSP091421-1466**

**Lab Sample ID: 320-79737-4**

Date Collected: 09/29/21 06:55

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.2088		0.2786	0.2786	ug/m3 (Air)			10/06/21 09:00	1

**Client Sample ID: GILBANEPM091421-1467**

**Lab Sample ID: 320-79737-5**

Date Collected: 09/30/21 07:20

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.030		0.00068	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:25	1
Copper	0.28		0.0014	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:25	1
Manganese	0.033		0.00068	0.000095	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:25	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-79737-1

**Client Sample ID: GILBANEPM091421-1467**

**Lab Sample ID: 320-79737-5**

Date Collected: 09/30/21 07:20

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	60		0.28	0.28	ug/m3			10/06/21 09:00	1

**Client Sample ID: GILBANETSP091421-1467**

**Lab Sample ID: 320-79737-6**

Date Collected: 09/30/21 07:20

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	78.5137		0.3015	0.3015	ug/m3 (Air)			10/06/21 09:00	1

**Client Sample ID: GILBANEPM091421-1468**

**Lab Sample ID: 320-79737-7**

Date Collected: 09/30/21 07:10

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0044		0.00067	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:29	1
Copper	0.36		0.0013	0.00010	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:29	1
Manganese	0.0087		0.00067	0.000094	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.28	0.28	ug/m3			10/06/21 09:00	1

**Client Sample ID: GILBANETSP091421-1468**

**Lab Sample ID: 320-79737-8**

Date Collected: 09/30/21 07:10

Matrix: Air

Date Received: 10/01/21 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.5860		0.2767	0.2767	ug/m3 (Air)			10/06/21 09:00	1

# QC Sample Results

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

Job ID: 320-79737-1

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

**Lab Sample ID: MB 320-532176/1-B**  
**Matrix: Air**  
**Analysis Batch: 532314**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 532177**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:02	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:02	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/08/21 10:05	10/08/21 12:02	1

**Lab Sample ID: LCS 320-532176/2-B**  
**Matrix: Air**  
**Analysis Batch: 532314**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 532177**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.234		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.255		ug/m3 (Air)		106	85 - 110
Manganese	0.240	0.250		ug/m3 (Air)		104	88 - 110

**Lab Sample ID: LCSD 320-532176/3-B**  
**Matrix: Air**  
**Analysis Batch: 532314**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 532177**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111	2	15
Copper	0.240	0.256		ug/m3 (Air)		107	85 - 110	0	15
Manganese	0.240	0.251		ug/m3 (Air)		104	88 - 110	0	15

# QC Association Summary

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

Job ID: 320-79737-1

## Metals

### Pre Prep Batch: 532176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79737-1	GILBANEPM091421-1465	Total/NA	Air	Filter to Air	
320-79737-3	GILBANEPM091421-1466	Total/NA	Air	Filter to Air	
320-79737-5	GILBANEPM091421-1467	Total/NA	Air	Filter to Air	
320-79737-7	GILBANEPM091421-1468	Total/NA	Air	Filter to Air	
MB 320-532176/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-532176/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-532176/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 532177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79737-1	GILBANEPM091421-1465	Total/NA	Air	3050B	532176
320-79737-3	GILBANEPM091421-1466	Total/NA	Air	3050B	532176
320-79737-5	GILBANEPM091421-1467	Total/NA	Air	3050B	532176
320-79737-7	GILBANEPM091421-1468	Total/NA	Air	3050B	532176
MB 320-532176/1-B	Method Blank	Total/NA	Air	3050B	532176
LCS 320-532176/2-B	Lab Control Sample	Total/NA	Air	3050B	532176
LCSD 320-532176/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	532176

### Analysis Batch: 532314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79737-1	GILBANEPM091421-1465	Total/NA	Air	6020	532177
320-79737-3	GILBANEPM091421-1466	Total/NA	Air	6020	532177
320-79737-5	GILBANEPM091421-1467	Total/NA	Air	6020	532177
320-79737-7	GILBANEPM091421-1468	Total/NA	Air	6020	532177
MB 320-532176/1-B	Method Blank	Total/NA	Air	6020	532177
LCS 320-532176/2-B	Lab Control Sample	Total/NA	Air	6020	532177
LCSD 320-532176/3-B	Lab Control Sample Dup	Total/NA	Air	6020	532177

## General Chemistry

### Pre Prep Batch: 532267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79737-2	GILBANETSP091421-1465	Total/NA	Air	Filter to Air	
320-79737-4	GILBANETSP091421-1466	Total/NA	Air	Filter to Air	
320-79737-6	GILBANETSP091421-1467	Total/NA	Air	Filter to Air	
320-79737-8	GILBANETSP091421-1468	Total/NA	Air	Filter to Air	

### Analysis Batch: 532271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79737-1	GILBANEPM091421-1465	Total/NA	Air	PM10	
320-79737-3	GILBANEPM091421-1466	Total/NA	Air	PM10	
320-79737-5	GILBANEPM091421-1467	Total/NA	Air	PM10	
320-79737-7	GILBANEPM091421-1468	Total/NA	Air	PM10	

### Analysis Batch: 532273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79737-2	GILBANETSP091421-1465	Total/NA	Air	40CFR50 App B	532267
320-79737-4	GILBANETSP091421-1466	Total/NA	Air	40CFR50 App B	532267
320-79737-6	GILBANETSP091421-1467	Total/NA	Air	40CFR50 App B	532267
320-79737-8	GILBANETSP091421-1468	Total/NA	Air	40CFR50 App B	532267

Eurofins TestAmerica, Sacramento

# Lab Chronicle

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

Job ID: 320-79737-1

**Client Sample ID: GILBANEPM091421-1465**

**Lab Sample ID: 320-79737-1**

**Date Collected: 09/29/21 07:00**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					532176	10/08/21 09:53	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	532177	10/08/21 10:05	NIM	TAL SAC
Total/NA	Analysis	6020		1			532314	10/08/21 12:12	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.1104 g	532271	10/06/21 09:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1465**

**Lab Sample ID: 320-79737-2**

**Date Collected: 09/29/21 07:00**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			532273	10/06/21 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					532267	10/08/21 13:22	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1466**

**Lab Sample ID: 320-79737-3**

**Date Collected: 09/29/21 06:55**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					532176	10/08/21 09:53	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	532177	10/08/21 10:05	NIM	TAL SAC
Total/NA	Analysis	6020		1			532314	10/08/21 12:22	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0402 g	532271	10/06/21 09:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1466**

**Lab Sample ID: 320-79737-4**

**Date Collected: 09/29/21 06:55**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			532273	10/06/21 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					532267	10/08/21 13:22	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1467**

**Lab Sample ID: 320-79737-5**

**Date Collected: 09/30/21 07:20**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					532176	10/08/21 09:53	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	532177	10/08/21 10:05	NIM	TAL SAC
Total/NA	Analysis	6020		1			532314	10/08/21 12:25	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.1063 g	532271	10/06/21 09:00	DPM	TAL SAC

# Lab Chronicle

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

Job ID: 320-79737-1

**Client Sample ID: GILBANETSP091421-1467**

**Lab Sample ID: 320-79737-6**

**Date Collected: 09/30/21 07:20**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			532273	10/06/21 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					532267	10/08/21 13:22	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1468**

**Lab Sample ID: 320-79737-7**

**Date Collected: 09/30/21 07:10**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					532176	10/08/21 09:53	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	532177	10/08/21 10:05	NIM	TAL SAC
Total/NA	Analysis	6020		1			532314	10/08/21 12:29	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0586 g	532271	10/06/21 09:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1468**

**Lab Sample ID: 320-79737-8**

**Date Collected: 09/30/21 07:10**

**Matrix: Air**

**Date Received: 10/01/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			532273	10/06/21 09:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					532267	10/08/21 13:22	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-79737-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-79737-1

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

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 320-79737-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-79737-1	GILBANEPM091421-1465	Air	09/29/21 07:00	10/01/21 10:15
320-79737-2	GILBANETSP091421-1465	Air	09/29/21 07:00	10/01/21 10:15
320-79737-3	GILBANEPM091421-1466	Air	09/29/21 06:55	10/01/21 10:15
320-79737-4	GILBANETSP091421-1466	Air	09/29/21 06:55	10/01/21 10:15
320-79737-5	GILBANEPM091421-1467	Air	09/30/21 07:20	10/01/21 10:15
320-79737-6	GILBANETSP091421-1467	Air	09/30/21 07:20	10/01/21 10:15
320-79737-7	GILBANEPM091421-1468	Air	09/30/21 07:10	10/01/21 10:15
320-79737-8	GILBANETSP091421-1468	Air	09/30/21 07:10	10/01/21 10:15

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# CHAIN-OF-CUSTODY RECORD

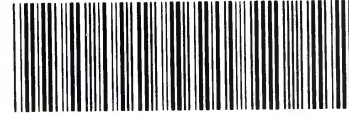
Gilbane Federal  
 Brett Womack  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT093021AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring September 2021
Project Number: J310000400	PO: [REDACTED]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code	Matrix
		A	Air
Equipment:		Code	Container/Preservative
		1	1x 250-mL Plastic, 4 Degrees C
		1	1x Envelope, None



320-79737 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring September 2021

Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	GILBANEPM091421-1465	A	09/29/2021	0700	KT	X	X							AMSE1	N1	0.00	0.00	KT	VOLUME: 1768.09
2	GILBANETSP091421-1465	A	09/29/2021	0700	KT		X							AMSE1	N1	0.00	0.00	KT	VOLUME: 1651.69
3	GILBANEPM091421-1466	A	09/29/2021	0655	KT	X	X							AMSE2	N1	0.00	0.00	KT	VOLUME: 1779.54
4	GILBANETSP091421-1466	A	09/29/2021	0655	KT		X							AMSE2	N1	0.00	0.00	KT	VOLUME: 1794.86
5	GILBANEPM091421-1467	A	09/30/2021	0720	KT	X	X							AMSE1	N1	0.00	0.00	KT	VOLUME: 1777.63
6	GILBANETSP091421-1467	A	09/30/2021	0720	KT		X							AMSE1	N1	0.00	0.00	KT	VOLUME: 1658.31
7	GILBANEPM091421-1468	A	09/30/2021	0710	KT	X	X							AMSE2	N1	0.00	0.00	KT	VOLUME: 1794.35
8	GILBANETSP091421-1468	A	09/30/2021	0710	KT		X							AMSE2	N1	0.00	0.00	KT	VOLUME: 1807.09
9																			
10																			

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	9/30/21	1500	[REDACTED]	9/30/21	1500	Shipping Date: 9/30/2021/FedEx 7748 4781 2691
			[REDACTED]	10/1/21	1015	
						Received by Laboratory: (Signature, Date, Time) & condition
						19.9 <sup>cc</sup>

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10/14/2021 (Rev. 1)



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-79737-1

**Login Number: 79737**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Create** [REDACTED]

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



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-79941-1

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

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

Authorized for release by:  
10/13/2021 6:14:05 PM

[REDACTED] Project Manager I  
(916)374-4383

Designee for

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

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

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# Definitions/Glossary

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

Job ID: 320-79941-1

## Qualifiers

### Metals

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

## Glossary

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

# Case Narrative

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

Job ID: 320-79941-1

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**Job ID: 320-79941-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative**  
**320-79941-1**

**Receipt**

The samples were received on 10/6/2021 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 20.6° C.

**Metals**

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

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# Detection Summary

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

Job ID: 320-79941-1

## Client Sample ID: GILBANEPM091421-1469

## Lab Sample ID: 320-79941-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.019		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.20		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.045	B	0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	64		0.93	0.93	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1469

## Lab Sample ID: 320-79941-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	89.0364		0.9763	0.9763	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM091421-1470

## Lab Sample ID: 320-79941-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.012		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.040		0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.019	B	0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.87	0.87	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP091421-1470

## Lab Sample ID: 320-79941-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.3437		0.8606	0.8606	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-79941-1

**Client Sample ID: GILBANEPM091421-1469**

**Lab Sample ID: 320-79941-1**

Date Collected: 09/30/21 14:45

Matrix: Air

Date Received: 10/06/21 10:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.019		0.0022	0.00033	ug/m3 (Air)		10/12/21 11:30	10/12/21 19:18	1
Copper	0.20		0.0044	0.00033	ug/m3 (Air)		10/12/21 11:30	10/12/21 19:18	1
Manganese	0.045	B	0.0022	0.00031	ug/m3 (Air)		10/12/21 11:30	10/12/21 19:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	64		0.93	0.93	ug/m3			10/08/21 17:00	1

**Client Sample ID: GILBANETSP091421-1469**

**Lab Sample ID: 320-79941-2**

Date Collected: 09/30/21 14:45

Matrix: Air

Date Received: 10/06/21 10:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	89.0364		0.9763	0.9763	ug/m3 (Air)			10/08/21 17:00	1

**Client Sample ID: GILBANEPM091421-1470**

**Lab Sample ID: 320-79941-3**

Date Collected: 09/30/21 15:05

Matrix: Air

Date Received: 10/06/21 10:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.012		0.0021	0.00031	ug/m3 (Air)		10/12/21 11:30	10/12/21 19:35	1
Copper	0.040		0.0042	0.00031	ug/m3 (Air)		10/12/21 11:30	10/12/21 19:35	1
Manganese	0.019	B	0.0021	0.00029	ug/m3 (Air)		10/12/21 11:30	10/12/21 19:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.87	0.87	ug/m3			10/08/21 17:00	1

**Client Sample ID: GILBANETSP091421-1470**

**Lab Sample ID: 320-79941-4**

Date Collected: 09/30/21 15:05

Matrix: Air

Date Received: 10/06/21 10:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.3437		0.8606	0.8606	ug/m3 (Air)			10/08/21 17:00	1



# QC Sample Results

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

Job ID: 320-79941-1

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

**Lab Sample ID: MB 320-533196/1-B**  
**Matrix: Air**  
**Analysis Batch: 533430**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 533242**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/12/21 11:30	10/12/21 18:26	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/12/21 11:30	10/12/21 18:26	1
Manganese	0.000400	J	0.0012	0.00017	ug/m3 (Air)		10/12/21 11:30	10/12/21 18:26	1

**Lab Sample ID: LCS 320-533196/2-B**  
**Matrix: Air**  
**Analysis Batch: 533430**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 533242**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.236		ug/m3 (Air)		98	88 - 110

**Lab Sample ID: LCSD 320-533196/3-B**  
**Matrix: Air**  
**Analysis Batch: 533430**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 533242**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Lead	0.240	0.246		ug/m3 (Air)		102	86 - 111	3	15
Copper	0.240	0.251		ug/m3 (Air)		105	85 - 110	2	15
Manganese	0.240	0.239		ug/m3 (Air)		99	88 - 110	1	15

# QC Association Summary

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

Job ID: 320-79941-1

## Metals

### Pre Prep Batch: 533196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79941-1	GILBANEPM091421-1469	Total/NA	Air	Filter to Air	
320-79941-3	GILBANEPM091421-1470	Total/NA	Air	Filter to Air	
MB 320-533196/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-533196/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-533196/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 533242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79941-1	GILBANEPM091421-1469	Total/NA	Air	3050B	533196
320-79941-3	GILBANEPM091421-1470	Total/NA	Air	3050B	533196
MB 320-533196/1-B	Method Blank	Total/NA	Air	3050B	533196
LCS 320-533196/2-B	Lab Control Sample	Total/NA	Air	3050B	533196
LCSD 320-533196/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	533196

### Analysis Batch: 533430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79941-1	GILBANEPM091421-1469	Total/NA	Air	6020	533242
320-79941-3	GILBANEPM091421-1470	Total/NA	Air	6020	533242
MB 320-533196/1-B	Method Blank	Total/NA	Air	6020	533242
LCS 320-533196/2-B	Lab Control Sample	Total/NA	Air	6020	533242
LCSD 320-533196/3-B	Lab Control Sample Dup	Total/NA	Air	6020	533242

## General Chemistry

### Pre Prep Batch: 532267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79941-2	GILBANETSP091421-1469	Total/NA	Air	Filter to Air	
320-79941-4	GILBANETSP091421-1470	Total/NA	Air	Filter to Air	

### Analysis Batch: 533366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79941-1	GILBANEPM091421-1469	Total/NA	Air	PM10	
320-79941-3	GILBANEPM091421-1470	Total/NA	Air	PM10	

### Analysis Batch: 533371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-79941-2	GILBANETSP091421-1469	Total/NA	Air	40CFR50 App B	532267
320-79941-4	GILBANETSP091421-1470	Total/NA	Air	40CFR50 App B	532267

# Lab Chronicle

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

Job ID: 320-79941-1

**Client Sample ID: GILBANEPM091421-1469**

**Lab Sample ID: 320-79941-1**

**Date Collected: 09/30/21 14:45**

**Matrix: Air**

**Date Received: 10/06/21 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					533196	10/12/21 09:54	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	533242	10/12/21 11:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			533430	10/12/21 19:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0346 g	533366	10/08/21 17:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1469**

**Lab Sample ID: 320-79941-2**

**Date Collected: 09/30/21 14:45**

**Matrix: Air**

**Date Received: 10/06/21 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					532267	10/08/21 13:22	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			533371	10/08/21 17:00	DPM	TAL SAC

**Client Sample ID: GILBANEPM091421-1470**

**Lab Sample ID: 320-79941-3**

**Date Collected: 09/30/21 15:05**

**Matrix: Air**

**Date Received: 10/06/21 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					533196	10/12/21 09:54	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	533242	10/12/21 11:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			533430	10/12/21 19:35	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0190 g	533366	10/08/21 17:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP091421-1470**

**Lab Sample ID: 320-79941-4**

**Date Collected: 09/30/21 15:05**

**Matrix: Air**

**Date Received: 10/06/21 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					532267	10/08/21 13:22	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			533371	10/08/21 17:00	DPM	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 320-79941-1

## Laboratory: Eurofins TestAmerica, 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	01-30-23

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

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



# Method Summary

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

Job ID: 320-79941-1

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

**Protocol References:**

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

**Laboratory References:**

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



# Sample Summary

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

Job ID: 320-79941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-79941-1	GILBANEPM091421-1469	Air	09/30/21 14:45	10/06/21 10:30
320-79941-2	GILBANETSP091421-1469	Air	09/30/21 14:45	10/06/21 10:30
320-79941-3	GILBANEPM091421-1470	Air	09/30/21 15:05	10/06/21 10:30
320-79941-4	GILBANETSP091421-1470	Air	09/30/21 15:05	10/06/21 10:30

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


**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
Brett Womack  
1655 Grant Street, Suite 1200, Concord, CA 94520  
bwomack@gilbaneco.com

**COC # KT100121AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<b>Event:</b> Parcel E Phase 2 Air Monitoring September 2021
<b>Project Number:</b> J310000400	PO [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	<b>Code</b> Matrix	A Air
			<b>Code</b> Container/Preservative	1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None
<b>Equipment:</b>	 320-79941 Chain of Custody			

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Event: Parcel E Phase 2 Air Monitoring September 2021																
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GILBANEPM091421-1469	A	09/30/2021	1445	KT	X	X					AMSE1	N2	0.00 0.00	1	VOLUME: 540.21
2	GILBANETSP091421-1469	A	09/30/2021	1445	KT		X					AMSE1	N2	0.00 0.00	1	VOLUME: 512.15
3	GILBANEPM091421-1470	A	09/30/2021	1505	KT	X	X					AMSE2	N2	0.00 0.00	1	VOLUME: 573.91
4	GILBANETSP091421-1470	A	09/30/2021	1505	KT		X					AMSE2	N2	0.00 0.00	1	VOLUME: 580.96
5																
6																
7																
8																
9																
10																

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	10/5/21	1600	Fed Ex	10/5/21	1600	Shipping Date: 10/5/2021 774885927140 Fed Ex
			[REDACTED]	10/6/21	1630	Received by Laboratory: (Signature, Date, Time) & condition 20.6°C

10/13/2021



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-79941-1

**Login Number: 79941**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** XXXXXXXXXX

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

