

# Naval Facilities Engineering Command Southwest BRAC PMO West San Diego, CA

# AIR MONITORING SUMMARY REPORT FOR PARCEL E REMEDIAL ACTION PHASE 2

HUNTERS POINT NAVAL SHIPYARD, SAN FRANCISCO, CALIFORNIA

April 1st, 2021 through April 30th, 2021

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DCN: GLBN-0005-4332-0062



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April 1st, 2021 through April 30th, 2021

#### Prepared for:



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Contract Number: N62473-17-D-0005; Task Order No. N6247317F4332

DCN: GLBN-0005-4332-0062

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# **Acronyms and Abbreviations**

AMSR	Air Monitoring Summary Report
Cal/OSHA	California Occupational Safety and Health Administration
Cfm	cubic feet per minute
CFR	Code of Federal Regulations
СТО	Contract Task Order
DMCP	Dust Monitoring and Control Plan
DTSC	State of California Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
fiber/cm3	fiber per cubic centimeter
Gilbane	Gilbane Federal
HERO	Human and Ecological Risk Office
HPNS	Hunters Point Naval Shipyard
L/min	liters per minute
mg/m3	milligrams per cubic meter
Navy	U.S. Department of the Navy
NIOSH	National Institute for Occupational Safety and Health
PDR	personal data-logging real-time
PEL	permissible exposure limit
PM10	particulate matter less than 10 microns in diameter
RAWP	Remedial Action Work Plan
TSP	total suspended particulates
TWA	time-weighted average
μg/m3	micrograms per cubic meter

#### 1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by Gilbane Federal (Gilbane) as requested by the United States Department of the Navy (Navy) under Radiological Environmental Multiple Award Contract N62473-17-D-0005, Contract Task Order (CTO) N6247317F4332. Gilbane is performing air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Final Dust Monitoring and Control Plan (DMCP), included as Appendix E to *Final Remedial Action Work Plan, Parcel E Remedial Action Phase 2, Hunters Point Naval Shipyard, San Francisco, California* (RAWP; Gilbane, 2019a). The 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 from April 1<sup>st</sup>, 2021 through April 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]).

### 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, APTIM HPNS - KCASANFR994, or San Francisco International (KSFO)) published at Weather Underground (www.wunderground.com). Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at www.wunderground.com (see Attachment 1). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

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

#### 3.0 Analytical Methods

#### 3.1 Asbestos

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

#### 3.2 PM10

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 40 CFR 50, Subpart J, during which time 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 sample results are gravimetrically determined, after which the results are validated for quality assurance. In this way the precise amount of PM10 present in each cubic meter of air is determined.

#### 3.3 TSP, Copper, Lead, and Manganese

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 Title 40 Code of Federal Regulations (CFR), Part 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. Once the filter weight was determined, the sample was analyzed for copper and manganese in accordance with one of the IO-3 methods identified in Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air (EPA, 1999), and for lead in accordance with a modified EPA Method 12.

#### 3.4 Radionuclides of Concern

Radiological air samples were collected with a LV-1 low-volume air sampler. Air filters are 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 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 air monitoring samples is 10 percent of the effluent

Analytical Methods

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, 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. Negative results indicating that the upwind concentration was greater than the downwind concentration, or instances where no delta was calculated due to non-detected results, are interpreted as acceptable.

The resulting deltas for PM10 and TSP and analytical data from air monitoring metals and radiological samples were compared with the threshold criteria listed in Table 4-1 reproduced from Table 1 of the approved DMCP (Appendix E of the RAWP [Gilbane, 2019a]. The PM10 delta was additionally compared to the criterion taken from the *Technical Memorandum: Draft Dust Action Levels for Parcel E, Hunters Point Shipyard, San Francisco, California* (Department of Toxic Substances Control [DTSC] 2017) of 50 micrograms per cubic meter (ug/m³).

Table 4-1: Air Monitoring Threshold Criteria

Test Parameter	Threshold Criterion	Threshold Criteria Reference				
Asbestos	0.1 fiber/cm <sup>3</sup>	Cal/OSHA PEL				
PM10	5,000 ug/m <sup>3</sup>	Cal/OSHA PEL				
TSP	0 E ma/m <sup>3</sup>	Basewide HPNS Level selected to minimize				
134	0.5 mg/m <sup>3</sup>	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	Occupational and public air concentration				
	Concentration Values	limits for ROCs are published in 10 Code of				
		Federal Regulations Part 20, Appendix B.				

#### Notes:

 $\mu$ g/m<sup>3</sup> = micrograms per cubic meter

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

fiber/cm3 = fiber 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

TSP = total suspended particulates

<sup>&</sup>lt;sup>a</sup> = Cal/OSHA PEL for particulates not otherwise regulated (respiratory) used for PM10.

# 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 April 1<sup>st</sup> to April 30<sup>th</sup>, 2021, during which Gilbane was shoring, extending a crane pad, extending shoreline, breaking rock, removing debris from the shoreline, and preparing site for excavation. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks.

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

Asbestos results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 2.

PM10 results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 3.

TSP, lead, manganese, and copper results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachments 4 and 5.

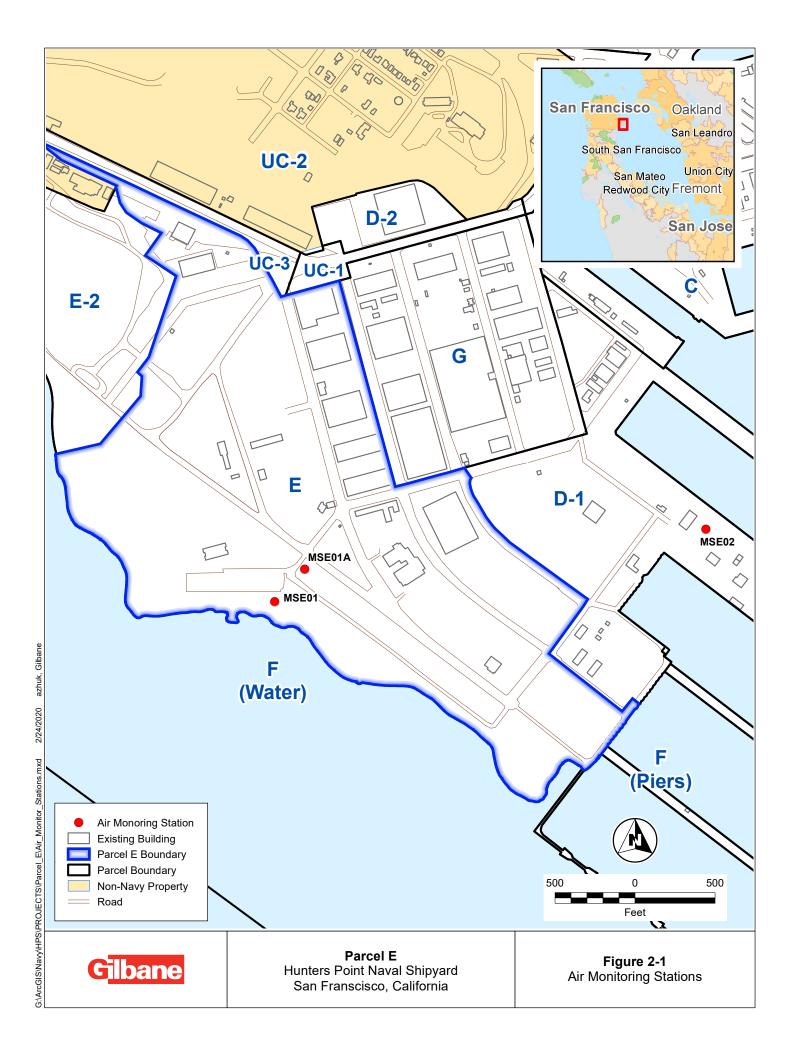
Radiological air sampling results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 6.

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.

#### 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), 1998. 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.

# **FIGURES**



# **ATTACHMENTS**

## **ATTACHMENT 1**

AMBIENT PRESSURE AND TEMPERATURE MONITORING RESULTS

Air Monitoring Summary Report
Parcel E Phase 2 Remedial Action
Hunters Point Naval Shipvard, San Francisco, CA

Ambient Pressure and Temperature Monitoring Results





**Ambient Pressure Ambient Temperature Prevalent Wind Start Date Direction** (in Hg) (°F) 4/1/2021<sup>1</sup> 29.99 59.05 NW 4/2/2021<sup>1</sup> 51.91 W 30.18 4/3/2021<sup>1</sup> 30.23 WSW 54.59 4/5/2021<sup>1</sup> 30.11 51.04 W 4/6/2021<sup>1</sup> 30.16 51.19 W 4/7/2021<sup>1</sup> 30.24 50.67 W 4/8/2021<sup>1</sup> 30.20 51.87 W 4/9/2021<sup>1</sup> 30.21 51.52 W 4/12/2021<sup>1</sup> 29.91 51.00 W 4/13/2021<sup>1</sup> 29.93 51.51 WSW 4/14/2021<sup>1</sup> 30.05 52.80 SW 4/15/2021<sup>1</sup> 30.11 54.60 W 4/19/2021<sup>2</sup> 30.03 55.43 W 4/20/2021<sup>1</sup> 29.92 53.03 W 4/21/2021<sup>3</sup> 29.95 51.95 WNW 4/22/2021<sup>3</sup> 30.02 WNW 54.04 4/26/2021<sup>1</sup> 30.01 W 52.64 4/27/2021<sup>1</sup> 30.13 WSW 56.87 4/28/2021<sup>1</sup> 30.24 59.33 W 4/29/2021<sup>3</sup> 30.27 54.28 WNW

Hunters Point Naval Shipyard, San Francisco, California

#### Notes:

in Hg = inches of mercury

E = East

N = North

S = South

W = West

<sup>&</sup>lt;sup>1</sup>Data collected using wunderground.com from APTIM HPNS - KCASANFR1504.

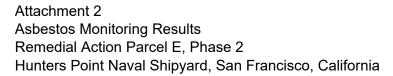
<sup>&</sup>lt;sup>2</sup>Data collected using wunderground.com from San Francisco International (KSFO).

<sup>&</sup>lt;sup>3</sup>Data collected using wunderground.com from Hunters Point - KCASANFR994.

<sup>°</sup>F = degree Fareheit

# **ATTACHMENT 2**

**ASBESTOS MONITORING RESULTS** 





Sample, Date and Station Information			Sampler Run I	nformation	Asbestos Fibers			
Sample ID	Sample Start Date <sup>1</sup>	Monitoring Station	Duration of Run	Total Air Volume Monitored	Asbestos	Conc Asbestos (fibers/cm³)	Exceedance (Yes/No)	
			(min)	(L)	(fibers)	,		
MSE01-040121	04/01/21	1	504	1008	14.5	0.007	No	
MSE02-040121	04/01/21	2	509	1018	12.0	0.006	No	
MSE01-040221	04/02/21	1	459	918	14.0	0.007	No	
MSE02-040221	04/02/21	2	481	962	10.0	0.005	No	
MSE01-040321	04/03/21	1	410	820	10.0	0.006	No	
MSE02-040321	04/03/21	2	423	846	8.0	0.005	No	
MSE01-040521	04/05/21	1	528	1056	8.5	0.004	No	
MSE02-040521	04/05/21	2	530	1060	10.5	0.005	No	
MSE01-040621	04/06/21	1	548	1096	11.5	0.005	No	
MSE02-040621	04/06/21	2	564	1128	12.0	0.005	No	
MSE01-040721	04/07/21	1	422	844	10.0	0.006	No	
MSE02-040721	04/07/21	2	432	864	8.5	0.005	No	
MSE01-040821	04/08/21	1	482	964	9.5	0.005	No	
MSE02-040821	04/08/21	2	461	922	10.5	0.006	No	
MSE01-040921	04/09/21	1	423	846	7.0	0.004	No	
MSE02-040921	04/09/21	2	443	886	9.0	0.005	No	
MSE01-041221	04/12/21	1	402	804	12.5	0.008	No	
MSE02-041221	04/12/21	2	358	716	7.5	0.005	No	
MSE01-041321	04/13/21	1	463	926	14.5	0.008	No	
MSE02-041321	04/13/21	2	482	964	11.0	0.006	No	
MSE01-041421	04/14/21	1	433	866	9.5	0.005	No	
MSE02-041421	04/14/21	2	455	910	10.5	0.006	No	
MSE01-041521	04/15/21	1	455	910	11.5	0.006	No	
MSE02-041521	04/15/21	2	461	922	13.5	0.007	No	
MSE01-041921	04/19/21	1	441	882	12.5	0.007	No	
MSE02-041921	04/19/21	2	452	904	10.0	0.005	No	
MSE01-042021	04/20/21	1	460	920	11.0	0.006	No	
MSE02-042021	04/20/21	2	454	908	12.0	0.006	No	
MSE01-042121	04/21/21	1	452	904	10.5	0.006	No	
MSE02-042121	04/21/21	2	466	932	9.0	0.005	No	
MSE01-042221	04/22/21	1	419	838	15.5	0.009	No	
MSE02-042221	04/22/21	2	427	854	12.5	0.007	No	
MSE01-042621	04/26/21	1	437	874	10.5	0.006	No	
MSE02-042621	04/26/21	2	463	926	13.5	0.007	No	
MSE01-042721	04/27/21	1	453	906	10.5	0.006	No	
MSE02-042721	04/27/21	2	455	910	8.0	0.004	No	
MSE01-042821	04/28/21	1	482	964	12.0	0.006	No	
MSE02-042821	04/28/21	2	438	876	9.0	0.005	No	
MSE01-042921	04/29/21	1	301	602	11.0	0.009	No	
MSE02-042921	04/29/21	2	324	648	9.0	0.007	No	

#### Notes:

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

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

min = minutes

L = liter

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

# **ATTACHMENT 3**PM10 MONITORING RESULTS

# Attachment 3 Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results Remedial Action Parcel E, Phase 2 Hunters Point Naval Shipyard, San Francisco, California



Sample, Date and	Station Inform	nation	Sampler Run Information	PM10s							
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m³)	Concen- tration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m³)	Delta between Downwind and Upwind (ug/m³)	Cal/OSHA PEL (ug/m³)	Exceedance (Yes/No)	HERO Action Level <sup>3</sup> (ug/m³)	Exceedance (Yes/No)	
Q0424254-MSE01	1	4/1/21	1647.67	0.036							
Q0424255-MSE02	2	4/1/21	1669.64	0.018	-0.018	-18.0	5,000	No	50	No	
Q0424256-MSE01	1	4/2/21	1608.41	0.035							
Q0424257-MSE02	2	4/2/21	1637.10	0.021	-0.014	-14.0	5,000	No	50	No	
Q0424258-MSE01	1	4/3/21	1682.38	0.023							
Q0424259-MSE02	2	4/3/21	1693.99	0.016	-0.007	-7.0	5,000	No	50	No	
Q0424260-MSE01	1	4/3/21 <sup>2</sup>	459.89	0.014							
Q0424261-MSE02	2	4/3/21 <sup>2</sup>	490.16	0.0093	-0.005	-4.7	5,000	No	50	No	
Q0424262-MSE01	1	4/6/21	1619.35	0.018							
Q0424263-MSE02	2	4/6/21	1637.71	0.014	-0.004	-4.0	5,000	No	50	No	
Q0424264-MSE01	1	4/7/21	1632.25	0.025							
Q0424265-MSE02	2	4/7/21	1646.81	0.025	0.000	0.0	5,000	No	50	No	
Q0424266-MSE01	1	4/8/21	1639.06	0.035							
Q0424267-MSE02	2	4/8/21	1645.54	0.016	-0.019	-19.0	5,000	No	50	No	
Q0424268-MSE01	1	4/9/21	1640.70	0.029							
Q0424269-MSE02	2	4/9/21	1672.96	0.025	-0.004	-4.0	5,000	No	50	No	
Q0424270-MSE01	1	4/9/21 <sup>2</sup>	340.99	0.060							
Q0424271-MSE02	2	4/9/21 <sup>2</sup>	368.45	0.024	-0.036	-36.0	5,000	No	50	No	
Q0424272-MSE01	1	4/13/21	1679.52	0.044							
Q0424273-MSE02	2	4/13/21	1624.13	0.057	0.013	13.0	5,000	No	50	No	
Q0424274-MSE01	1	4/14/21	1774.85	0.045							
Q0424275-MSE02	2	4/14/21	1760.31	0.069	0.024	24.0	5,000	No	50	No	
Q0424276-MSE01	1	4/15/21	1731.56	0.043							
Q0424277-MSE02	2	4/15/21	1723.68	0.043	0.000	0.0	5,000	No	50	No	
Q0424278-MSE01	1	4/15/21 <sup>2</sup>	535.05	0.047							
Q0424279-MSE02	2	4/15/21 <sup>2</sup>	558.42	0.047	0.000	0.0	5,000	No	50	No	

# Attachment 3 Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results Remedial Action Parcel E, Phase 2

Hunters Point Naval Shipyard, San Francisco, California



Sampler Run PM10s Sample, Date and Station Information Information Delta between Delta between Exceedance Exceedance **HERO Action** Sample End Cal/OSHA Monitoring Total Air Volume Concen-Downwind Downwind (Yes/No) (Yes/No) Date<sup>1</sup> Level<sup>3</sup> PEL Sample ID Station Monitored tration in Air and Upwind and Upwind (m<sup>3</sup>) (mg/m<sup>3</sup>) (mg/m³) (ug/m³) (ug/m³) (ug/m³) Q0424280-MSE01 1 4/20/21 1713.37 0.021 2 1737.35 0.025 5,000 Q0424281-MSE02 4/20/21 -0.004-4.0 50 No No Q0424282-MSE01 1 4/21/21 1729.03 0.031 Q0424283-MSE02 2 4/21/21 1746.56 0.040 0.009 9.0 5,000 No 50 No 1 0.029 Q0424284-MSE01 4/22/21 1763.01 Q0424285-MSE02 2 1774.05 0.028 -0.001 4/22/21 -1.0 5,000 50 Nο Nο 4/22/21<sup>2</sup> Q0424286-MSE01 1 459.43 < 0.0022 4/22/21<sup>2</sup> Q0424287-MSE02 2 490.90 < 0.0020 0.000 -0.2 5,000 No 50 No Q0424288-MSE01 1 4/27/21 1739.07 0.014 Q0424289-MSE02 2 1749.38 0.011 -0.003 5,000 4/27/21 -3.0 No 50 No Q0424290-MSE01 1 1762.73 0.016 4/28/21 Q0424291-MSE02 2 1716.16 0.022 0.006 6.0 5,000 50 4/28/21 No No Q0424292-MSE01 0.021 1 4/29/21 1715.62 Q0424293-MSE02<sup>3</sup> 2 4/29/21 1809.82 0.0090 -0.012 -12.0 5,000 No 50 No 4/29/21<sup>2</sup> Q0424294-MSE01 1 384.26 0.0080 4/29/21<sup>2</sup> 2 < 0.0026 Q0424295-MSE02 378.60 -0.005 -5.4 5,000 No 50 No

#### Notes:

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

DTSC = Department of Toxic Substances Control

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

mg = milligrams

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

PM<sub>10</sub>-particulate matter smaller than 10 microns in diameter

<sup>&</sup>lt;sup>1</sup>Sample "end" date indicates the date upon which sample collection ended.

<sup>&</sup>lt;sup>2</sup>Sample collected in the afternoon

<sup>&</sup>lt;sup>3</sup>Motor malfunction

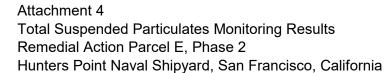
# **ATTACHMENT 4**

TSP MONITORING RESULTS

Attachment 4
Total Suspended Particulates Monitoring Results
Remedial Action Parcel E, Phase 2
Hunters Point Naval Shipyard, San Francisco, California



Sample, Date and	Station Infor	mation	Sampler Run Information	Total Suspended Particulates				
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m³)	Concen- tration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m³)	Basewide HPNS Level (mg/m³)	Exceedance (Yes/No)	
9894253-MSE01	1	4/1/21	1682.28	0.038				
9894254-MSE02	2	4/1/21	1702.16	0.03	-0.008	0.5	No	
9894255-MSE01	1	4/2/21	1604.99	0.045				
9894256-MSE02	2	4/2/21	1669.15	0.03	-0.015	0.5	No	
9894257-MSE01	1	4/3/21	1703.93	0.026				
9894258-MSE02	2	4/3/21	1725.78	0.026	0.000	0.5	No	
9894259-MSE01	1	4/3/21 <sup>2</sup>	460.30	0.013				
9894260-MSE02	2	4/3/21 <sup>2</sup>	503.13	0.012	-0.001	0.5	No	
9894261-MSE01	1	4/6/21	1551.88	0.017				
9894262-MSE02	2	4/6/21	1672.15	0.019	0.002	0.5	No	
9894264-MSE01	1	4/7/21	1679.89	0.026				
9894263-MSE02	2	4/7/21	1681.51	0.033	0.007	0.5	No	
9894265-MSE01	1	4/8/21	1633.23	0.025				
9894266-MSE02	2	4/8/21	1681.08	0.020	-0.005	0.5	No	
9894267-MSE01	1	4/9/21	1640.60	0.023				
9894268-MSE02	2	4/9/21	1701.41	0.022	-0.001	0.5	No	
9894269-MSE01	1	4/9/21 <sup>2</sup>	343.78	0.0041				
9894270-MSE02	2	4/9/21 <sup>2</sup>	380.48	<0.0026	-0.002	0.5	No	
9894271-MSE01	1	4/13/21	1680.54	0.051				
9894272-MSE02	2	4/13/21	1557.44	0.047	-0.004	0.5	No	
9894273-MSE01	1	4/14/21	1778.03	0.054				
9894274-MSE02	2	4/14/21	1688.02	0.056	0.002	0.5	No	
9894276-MSE01	1	4/15/21	1729.11	0.038				
9894275-MSE02	2	4/15/21	1662.29	0.053	0.015	0.5	No	
9894277-MSE01	1	4/15/21 <sup>2</sup>	534.17	0.045				
9894278-MSE02	2	4/15/21 <sup>2</sup>	541.73	0.034	-0.011	0.5	No	
9894279-MSE01	1	4/20/21	1735.25	0.037				
9894280-MSE02	2	4/20/21	1671.03	0.032	-0.005	0.5	No	
9894281-MSE01	1	4/21/21	1746.99	0.054				
9894282-MSE02	2	4/21/21	1680.02	0.047	-0.007	0.5	No	
9894283-MSE01	1	4/22/21	1744.25	0.042				
9894284-MSE02	2	4/22/21	1704.61	0.038	-0.004	0.5	No	
9894285-MSE01	1	4/22/21 <sup>2</sup>	465.34	0.019				
9894286-MSE02	2	4/22/21 <sup>2</sup>	467.15	0.019	0.000	0.5	No	
9894287-MSE01	1	4/27/21	1737.42	0.017				
9894288-MSE02	2	4/27/21	1676.76	0.015	-0.002	0.5	No	





Sample, Date and S	Station Infor	mation	Sampler Run Information	T	Total Suspended Particulates				
Sample ID	Monitoring Station Sample End Date <sup>1</sup>		Total Air Volume Monitored (m³)	Concen- tration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m³)	Basewide HPNS Level (mg/m³)	Exceedance (Yes/No)		
9894289-MSE01	1	4/28/21	1722.95	0.034					
9894290-MSE02	2	4/28/21	1651.25	0.024	-0.010	0.5	No		
9894291-MSE01	1	4/29/21	1797.38	0.039					
9894292-MSE02	2	4/29/21	1733.71	0.024	-0.015	0.5	No		
9894293-MSE01	1	4/29/21 <sup>2</sup>	384.86	0.015			No		
9894294-MSE02	2	4/29/21 <sup>2</sup>	311.20	0.0085	-0.007	0.5	No		

#### Notes

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

mg = milligrams

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

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

NA = not applicable

ug = micrograms

<sup>&</sup>lt;sup>1</sup>Sample "end" date indicates the date upon which sample collection ended.

<sup>&</sup>lt;sup>2</sup>Sample collected in the afternoon

<sup>--</sup> indicates difference was not calculated

<sup>&</sup>lt; = below detection limit

# **ATTACHMENT 5**

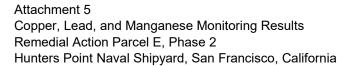
COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Air Monitoring Summary Report
Parcel E Phase 2 Remedial Action
Hunters Point Naval Shipvard, San Francisco, CA

Copper, Lead, and Manganese Monitoring Results



Sample, Date and Station Information		Sampler Run Information	Сорр	er	Lead		Manganese		
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concen-tration in Air (mg/m³)	Exceedance (Yes/No)	Concen-tration in Air (mg/m³)	Exceedance (Yes/No)	Concen-tration in Air (mg/m³)	Exceedance (Yes/No)
9894253-MSE01	1	4/1/21	1682.28	0.00029	No	<0.000015	No	<0.000031	No
9894254-MSE02	2	4/1/21	1702.16	0.00024	No	<0.000015	No	<0.000015	No
9894255-MSE01	1	4/2/21	1604.99	0.00029	No	0.000016	No	<0.000062	No
9894256-MSE02	2	4/2/21	1669.15	0.000075	No	<0.000015	No	<0.00006	No
9894257-MSE01	1	4/3/21	1703.93	0.000082	No	<0.000015	No	<0.000059	No
9894258-MSE02	2	4/3/21	1725.78	0.0001	No	<0.000014	No	<0.000058	No
9894259-MSE01	1	4/3/21 <sup>2</sup>	460.30	<0.00022	No	<0.000054	No	<0.00022 UJ	No
9894260-MSE02	2	4/3/21 <sup>2</sup>	503.13	<0.0002	No	<0.00005	No	<0.0002	No
9894261-MSE01	1	4/6/21	1551.88	0.000096	No	<0.000016	No	<0.000064	No
9894262-MSE02	2	4/6/21	1672.15	0.00013	No	<0.000015	No	<0.000060	No
9894264-MSE01	1	4/7/21	1679.89	0.000087	No	<0.000015	No	<0.000015	No
9894263-MSE02	2	4/7/21	1681.51	0.000092 J-	No	<0.000015	No	<0.000015 UJ	No
9894265-MSE01	1	4/8/21	1633.23	0.00007	No	<0.000015	No	<0.000015	No
9894266-MSE02	2	4/8/21	1681.08	0.000042	No	<0.000015	No	<0.000015	No
9894267-MSE01	1	4/9/21	1640.60	0.000088	No	<0.000015	No	<0.000015	No
9894268-MSE02	2	4/9/21 4/9/21 <sup>2</sup>	1701.41	0.000074	No	<0.000015	No	<0.000015	No
9894269-MSE01	1	4/9/21 <sup>2</sup>	343.78	<0.000073	No	<0.000073	No	<0.000073	No
9894270-MSE02	2		380.48	<0.000066	No	<0.000066	No	<0.000066	No
9894271-MSE01	1	4/13/21	1680.54	0.00017	No	<0.000015	No	0.000019	No No
9894272-MSE02 9894273-MSE01	2 1	4/13/21 4/14/21	1557.44 1778.03	0.000074 0.00017	No No	<0.000016 <0.000014	No No	0.000017 0.000016	No No
9894274-MSE02	2	4/14/21	1688.02	0.00017	No	<0.000014	No	0.000018	No No
9894274-WSE02 9894276-MSE01	1	4/14/21	1729.11	0.00010	No	<0.000013	No	<0.000021	No No
9894275-MSE02	2	4/15/21	1662.29	0.00014	No	<0.000014	No	0.000014	No
9894277-MSE01	1	4/15/21 <sup>2</sup>	534.17	0.00010	No	<0.000047	No	<0.000047	No
9894278-MSE02	2	4/15/21 <sup>2</sup>	541.73	0.00017	No	<0.000047	No	<0.000047	No
9894279-MSE01	1	4/20/21	1735.25	0.000057	No	<0.000014	No	<0.000014	No
9894280-MSE02	2	4/20/21	1671.03	0.00002	No	<0.000011	No	<0.000011	No
9894281-MSE01	1	4/21/21	1746.99	0.00014	No	<0.000014	No	0.000017	No
9894282-MSE02	2	4/21/21	1680.02	0.00013	No	<0.000015	No	<0.000015	No
9894283-MSE01	1	4/22/21	1744.25	0.0001	No	<0.000014	No	<0.000014	No
9894284-MSE02	2	4/22/21	1704.61	0.00012	No	<0.000015	No	<0.000015	No
9894285-MSE01	1	4/22/21 <sup>2</sup>	465.34	0.00011	No	<0.000054	No	<0.000054	No
9894286-MSE02	2	4/22/21 <sup>2</sup>	467.15	0.00012	No	<0.000054	No	<0.000054	No
9894287-MSE01	1	4/27/21	1737.42	0.00012	No	<0.000014	No	<0.000014	No
9894288-MSE02	2	4/27/21	1676.76	0.000091	No	<0.000015	No	<0.000015	No
9894289-MSE01	1	4/28/21	1722.95	0.000088	No	<0.000015	No	0.000019	No
9894290-MSE02	2	4/28/21	1651.25	0.00026	No	<0.000015	No	0.000042	No
9894291-MSE01	1	4/29/21	1797.38	0.00013	No	<0.000014	No	0.000036	No
9894292-MSE02	2	4/29/21	1733.71	0.00044	No	<0.000014	No	0.000017	No
9894293-MSE01	1	4/29/21 <sup>2</sup>	384.86	0.000067	No	<0.000065	No	<0.000065	No





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 (m³)	Concen-tration in Air (mg/m³)	Exceedance (Yes/No)	Concen-tration in Air (mg/m³)	Exceedance (Yes/No)	Concen-tration in Air (mg/m³)	Exceedance (Yes/No)
9894294-MSE02	2	4/29/21 <sup>2</sup>	311.20	<0.00008	No	<0.00008	No	<0.00008	No

Notes:

Samples analyzed by ALS Environmental J =estimated value Sample locations are shown on Figure 2-1  $m^3 =$ cubic meters

mg/m³ = milligrams per cubic meter UJ = not detected; associated detection limit estimated

<sup>&</sup>lt;sup>1</sup>Sample "end" date indicates the date upon which sample collection ended.

<sup>&</sup>lt;sup>2</sup>Sample collected in the afternoon

## **ATTACHMENT 6**

RADIOLOGICAL AIR MONITORING RESULTS

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## AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

	Project Information									Effluent Air Concentration					Sampling Period			Color Codes					
Contract /	Task Order No	ımher P	Project Title / Lo			mution	Gilbane Project Nu	ımher:			Lindon	7111 0011	Alpha	Beta		samples col		V	alue < MDC			0.1 x Efflue	ent Conc
	3-17-D-0005 /		,		: RA HPNS, S	SE CA	,	10000400			Radi	ionuclide		Sr-90		April 1, 2021			hr decay ti			0.1 x Efflue	
1102-17	0 11 D 00001	1 4002			fective as of:		1 00	710000+00		Ff	fluent Conc		9.E-13	6.E-12		April 30, 202			ata reviewe			e > Effluent	
			momat		Sample Col						100111 00110	(μοι/ιιιι)		t Informati		7 tprii 00, 202	- '		Sample I	-	Valu		tials
Sample	Sample	Samp	ole Fa	uip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting		Activity	Net	dpm	Activity			Conc (%)	Count	Data
Number	Туре	Locati	I		Rate (lpm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer
AS-0153	Perimeter	MSC			60	4/1/21 6:30	4/1/21 15:55	565	3.4E+07	С	4/7/21	1	cpm	0.300	4.050	0.8	8.1	1.1E-14	1.1E-13	1.2%	1.8%	DVT	BCS
AS-0154	Perimeter	MSC	02 PE	<b>-</b> 05	60	4/1/21 6:38	4/1/21 15:40	542	3.3E+07	С	4/7/21	1	cpm	0.100	5.250	0.3	11.5	3.9E-15	1.6E-13	0.4%	2.7%	DVT	BCS
AS-0155	Perimeter	MSC	01 PE	<b>=</b> 06	60	4/2/21 6:14	4/2/21 15:30	556	3.3E+07	С	4/7/21	1	cpm	0.100	5.550	0.3	12.4	3.8E-15	1.7E-13	0.4%	2.8%	DVT	BCS
AS-0156	Perimeter	MSC	02 PE	<b>E</b> 05	60	4/2/21 6:25	4/2/21 15:45	560	3.4E+07	С	4/7/21	1	cpm	0.000	4.100	0.0	8.2	0.0E+00	1.1E-13	0.0%	1.8%	DVT	BCS
AS-0157	Perimeter	MSC	01 PE	≣06	60	4/3/21 7:09	4/3/21 15:18	489	2.9E+07	С	4/7/21	1	cpm	0.350	4.650	1.0	9.8	1.5E-14	1.5E-13	1.7%	2.5%	DVT	BCS
AS-0158	Perimeter	MSC	02 PE	<b>-</b> 05	60	4/3/21 7:17	4/3/21 15:24	487	2.9E+07	С	4/7/21	1	cpm	0.050	3.550	0.1	6.7	2.2E-15	1.0E-13	0.2%	1.7%	DVT	BCS
AS-0159	Perimeter	MSC	01 PE	<b>=</b> 06	60	4/5/21 6:14	4/5/21 15:45	571	3.4E+07	С	4/13/21	1	cpm	0.350	4.550	1.0	9.5	1.3E-14	1.3E-13	1.4%	2.1%	DVT	BCS
AS-0160	Perimeter	MSC	02 PE	<b>E</b> 05	60	4/5/21 6:23	4/5/21 15:53	570	3.4E+07	С	4/13/21	1	cpm	0.100	4.350	0.3	8.9	3.7E-15	1.2E-13	0.4%	2.0%	DVT	BCS
AS-0161	Perimeter	MSC	01 PE	<b>E</b> 06	60	4/6/21 6:20	4/6/21 15:50	570	3.4E+07	С	4/13/21	1	cpm	0.050	4.800	0.1	10.2	1.8E-15	1.3E-13	0.2%	2.2%	DVT	BCS
AS-0162	Perimeter	MSC	02 PE	<b>E</b> 05	60	4/6/21 5:30	4/6/21 15:30	600	3.6E+07	С	4/13/21	1	cpm	0.100	5.200	0.3	11.4	3.5E-15	1.4E-13	0.4%	2.4%	DVT	BCS
AS-0163	Perimeter	MSC	01 PE	<b>Ξ</b> 07	60	4/7/21 6:35	4/7/21 15:00	505	3.0E+07	С	4/13/21	1	cpm	0.100	4.400	0.3	9.1	4.2E-15	1.4E-13	0.5%	2.3%	DVT	BCS
AS-0164	Perimeter	MSC	02 PE	E08	60	4/7/21 6:45	4/7/21 15:05	500	3.0E+07	С	4/13/21	1	cpm	0.300	3.700	8.0	7.1	1.3E-14	1.1E-13	1.4%	1.8%	DVT	BCS
AS-0165	Perimeter	MSC	01 PE	<b>E</b> 07	60	4/8/21 6:30	4/8/21 15:00	510	3.1E+07	C	4/13/21	1	cpm	0.150	4.350	0.4	8.9	6.2E-15	1.3E-13	0.7%	2.2%	DVT	BCS
AS-0166	Perimeter	MSC	02 PE	E08	60	4/8/21 5:00	4/8/21 15:20	620	3.7E+07	С	4/13/21	1	cpm	0.350	3.750	1.0	7.2	1.2E-14	8.8E-14	1.3%	1.5%	DVT	BCS
AS-0167	Perimeter	MSC	01 PE	<b>E</b> 07	60	4/9/21 5:00	4/9/21 13:29	509	3.1E+07	С	4/13/21	1	cpm	0.000	4.500	0.0	9.4	0.0E+00	1.4E-13	0.0%	2.3%	DVT	BCS
AS-0168	Perimeter	MSC	02 PE	E08	60	4/9/21 5:10	4/9/21 13:18	488	2.9E+07	С	4/13/21	1	cpm	0.100	4.300	0.3	8.8	4.3E-15	1.4E-13	0.5%	2.3%	DVT	BCS
AS-0169	Perimeter	MSC			60	4/12/21 7:07	4/12/21 15:45	518	3.1E+07	С	4/19/21	1	cpm	0.000	4.800	0.0	10.2	0.0E+00	1.5E-13	0.0%	2.5%	DVT	BCS
AS-0170	Perimeter	MSC		E08	60	4/12/21 7:02	4/12/21 15:30	508	3.0E+07	С	4/19/21	1	cpm	0.150	4.350	0.4	8.9	6.2E-15	1.3E-13	0.7%	2.2%	DVT	BCS
AS-0171	Perimeter	MSC			60	4/13/21 5:00	4/13/21 15:45	645	3.9E+07	С	4/19/21	1	cpm	0.200	4.050	0.6	8.1	6.5E-15	9.4E-14	0.7%	1.6%	DVT	BCS
AS-0172	Perimeter	MSC			60	4/13/21 5:10	4/13/21 15:35	625	3.7E+07	С	4/19/21	1	cpm	0.300	3.500	0.8	6.5	1.0E-14	7.8E-14	1.1%	1.3%	DVT	BCS
AS-0173	Perimeter	MSC			60	4/14/21 4:50	4/14/21 15:30	640	3.8E+07	С	4/19/21	1	cpm	0.300	4.050	8.0	8.1	9.9E-15	9.5E-14	1.1%	1.6%	DVT	BCS
AS-0174	Perimeter	MSC			60	4/14/21 5:00	4/14/21 15:20	620	3.7E+07	С	4/19/21	1	cpm	0.300	4.200	0.8	8.5	1.0E-14	1.0E-13	1.1%	1.7%	DVT	BCS
AS-0175	Perimeter	MSC		<b>E</b> 07	60	4/15/21 4:57	4/15/21 15:20	623	3.7E+07	С	4/19/21	1	cpm	0.300	4.150	0.8	8.4	1.0E-14	1.0E-13	1.1%	1.7%	DVT	BCS
AS-0176	Perimeter	MSC		80	60	4/15/21 5:05	4/15/21 15:30	625	3.8E+07	С	4/19/21	1	cpm	0.250	4.250	0.7	8.7	8.4E-15	1.0E-13	0.9%	1.7%	DVT	BCS
AS-0177	Perimeter	MSC			60	4/19/21 6:38	4/19/21 15:38	540	3.2E+07	С	4/26/21	1	cpm	0.200	4.650	0.6	9.8	7.8E-15	1.4E-13	0.9%	2.3%	DVT	BCS
AS-0178	Perimeter	MSC			60	4/19/21 6:32	4/19/21 15:32	540	3.2E+07	С	4/26/21	1	cpm	0.200	3.850	0.6	7.5	7.8E-15	1.0E-13	0.9%	1.7%	DVT	BCS
AS-0179	Perimeter	MSC			60	4/20/21 4:50	4/20/21 15:15	625	3.7E+07	С	4/26/21	1	cpm	0.050	4.350	0.1	8.9	1.7E-15	1.1E-13	0.2%	1.8%	DVT	BCS
AS-0180	Perimeter	MSC	02 PE	E08	60	4/20/21 5:00	4/20/21 15:00	600	3.6E+07	С	4/26/21	1	cpm	0.200	4.300	0.6	8.8	7.0E-15	1.1E-13	0.8%	1.8%	DVT	BCS

IN-RP-152 (Oct 2018)



## AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

															/ \li \	<b>O</b> / \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			ODLIO		COIL		
					Project Info	rmation					Effluent	t Air Con	centration		5	Sampling Pe	riod			Color	Codes		
Contract /	Task Order N	umber: F	Project Title / I	Locatio	on:		Gilbane Project Nu	ımber:					Alpha	Beta	Air	samples col	lected	V	alue < MD0	2	Value <	0.1 x Efflue	ent Conc
N6247	3-17-D-0005 /	F4332	P	arcel E	E RA HPNS, S	SF, CA	J3	10000400			Rad	ionuclide	Ra-226	Sr-90	between	April 1, 202	1	< 72	hr decay ti	ime	Value >	0.1 x Efflue	ent Conc
		•	Informa	ation ef	fective as of:	5/18/2021				Ef	fluent Cond	(μCi/ml)	9.E-13	6.E-12	and	April 30, 202	21	Da	ata reviewe	d	Valu	e > Effluent	Conc
					Sample Co	llection							Cour	t Informat	ion				Sample	Results		Init	tials
Sample	Sample	Samp	ple E	quip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Ne	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data
Number	Type	Locat	tion	No	Rate (lpm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer
AS-0181	Perimeter	MSC	CO1 P	PE07	60	4/21/21 4:50	4/21/21 15:15	625	3.7E+07	С	4/26/21	1	cpm	0.150	3.900	0.4	7.7	5.1E-15	9.2E-14	0.6%	1.5%	DVT	BCS
AS-0182	Perimeter	MSC	02 P	PE08	60	4/21/21 5:05	4/21/21 15:30	625	3.8E+07	С	4/26/21	1	cpm	0.200	4.600	0.6	9.7	6.7E-15	1.2E-13	0.7%	1.9%	DVT	BCS
AS-0183	Perimeter	MSC	01 P	PE07	60	4/22/21 4:50	4/22/21 14:30	580	3.5E+07	С	4/26/21	1	cpm	0.100	4.650	0.3	9.8	3.6E-15	1.3E-13	0.4%	2.1%	DVT	BCS
AS-0184	Perimeter	MSC	02 P	PE08	60	4/22/21 5:00	4/22/21 15:00	600	3.6E+07	С	4/26/21	1	cpm	0.300	4.100	0.8	8.2	1.1E-14	1.0E-13	1.2%	1.7%	DVT	BCS
AS-0185	Perimeter	MSC	01 P	PE07	60	4/26/21 6:35	4/26/21 15:30	535	3.2E+07	С	5/3/21	1	cpm	0.100	4.250	0.3	8.7	3.9E-15	1.2E-13	0.4%	2.0%	DVT	BCS
AS-0186	Perimeter	MSC	02 P	PE08	60	4/26/21 6:36	4/26/21 15:34	538	3.2E+07	С	5/3/21	1	cpm	0.050	4.450	0.1	9.2	2.0E-15	1.3E-13	0.2%	2.1%	DVT	BCS
AS-0187	Perimeter	MSC	01 P	PE07	60	4/27/21 4:55	4/27/21 15:06	611	3.7E+07	С	5/3/21	1	cpm	0.100	4.750	0.3	10.1	3.5E-15	1.2E-13	0.4%	2.1%	DVT	BCS
AS-0188	Perimeter	MSC	02 P	PE08	60	4/27/21 5:05	4/27/21 15:14	609	3.7E+07	С	5/3/21	1	cpm	0.150	3.400	0.4	6.3	5.2E-15	7.7E-14	0.6%	1.3%	DVT	BCS
AS-0189	Perimeter	MSC	01 P	PE07	60	4/28/21 4:50	4/28/21 15:20	630	3.8E+07	С	5/3/21	1	cpm	0.100	4.200	0.3	8.5	3.3E-15	1.0E-13	0.4%	1.7%	DVT	BCS
AS-0190	Perimeter	MSC	02 P	PE08	60	4/28/21 5:00	4/28/21 15:40	640	3.8E+07	С	5/3/21	1	cpm	0.200	4.700	0.6	9.9	6.6E-15	1.2E-13	0.7%	1.9%	DVT	BCS
AS-0191	Perimeter	MSC	01 P	PE07	60	4/29/21 4:50	4/29/21 14:00	550	3.3E+07	С	5/3/21	1	cpm	0.100	4.200	0.3	8.5	3.8E-15	1.2E-13	0.4%	1.9%	DVT	BCS
AS-0192	Perimeter	MSC	02 P	PE08	60	4/29/21 5:00	4/29/21 14:10	550	3.3E+07	С	5/3/21	1	cpm	0.050	3.000	0.1	5.1	1.9E-15	7.0E-14	0.2%	1.2%	DVT	BCS

IN-RP-152 (Oct 2018)

## ATTACHMENT 7

LABORATORY REPORTS

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12-Apr-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21040210

Dear Brett,

ALS Environmental received 8 samples on 05-Apr-2021 11:49 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

## R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Work Order Sample Summary

Work Order: 21040210

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	Hold
21040210-01	Q0424252-MSE01	Air		3/31/2021 07:58	4/5/2021 11:49	
21040210-02	9894251-MSE01	Air		3/31/2021 07:58	4/5/2021 11:49	
21040210-03	Q0424253-MSE02	Air		3/31/2021 07:30	4/5/2021 11:49	
21040210-04	9894252-MSE02	Air		3/31/2021 07:30	4/5/2021 11:49	
21040210-05	Q0424254-MSE01	Air		4/1/2021 07:58	4/5/2021 11:49	
21040210-06	9894253-MSE01	Air		4/1/2021 07:58	4/5/2021 11:49	
21040210-07	Q0424255-MSE02	Air		4/1/2021 07:48	4/5/2021 11:49	
21040210-08	9894254-MSE02	Air		4/1/2021 07:48	4/5/2021 11:49	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21040210

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21040210

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040210-01A **Collection Date:** 3/31/2021 7:58:00 AM

Client Sample ID: Q0424252-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1569210 Analyst: SRL

Date Analyzed: 4/9/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 42 1.0 0.027

**Lab ID:** 21040210-02A **Collection Date:** 3/31/2021 7:58:00 AM

Client Sample ID: 9894251-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1618470</b>	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	66	1.0	0.041	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1618470</b>	Analyst: AZ
Date Analyzed: 4/12/2021 14:12		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	710	25	0.00044	
Lead	ND	25	<0.000015	
Manganese	50	25	0.000031	

**Lab ID:** 21040210-03A Collection Date: 3/31/2021 7:30:00 AM

Client Sample ID: Q0424253-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1675090	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	31	1.0	0.019	

Client: Gilbane Company Work Order: 21040210

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040210-04A **Collection Date:** 3/31/2021 7:30:00 AM

Client Sample ID: 9894252-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1710930</b>	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	49	1.0	0.029	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1710930	Analyst: AZ
Date Analyzed: 4/12/2021 14:15		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	470	25	0.00028	
Lead	26	25	0.000015	
Manganese	ND	25	<0.000015	•

**Lab ID:** 21040210-05A **Collection Date:** 4/1/2021 7:58:00 AM

Client Sample ID: Q0424254-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1647670	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	59	1.0	0.036	

**Lab ID:** 21040210-06A **Collection Date:** 4/1/2021 7:58:00 AM

Client Sample ID: 9894253-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1682280	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	65	1.0	0.038	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1682280</b>	Analyst: AZ
Date Analyzed: 4/12/2021 14:19		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	490	25	0.00029	
Lead	ND	25	<0.000015	
Manganese	52	25	0.000031	

Client: Gilbane Company Work Order: 21040210

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040210-07A **Collection Date:** 4/1/2021 7:48:00 AM

Client Sample ID: Q0424255-MSE02 Matrix: AIR

**Analyses** 

 PM : PM10 40CFR 50 APPDIX J
 Method: PM10
 Air Volume (L): 1669640
 Analyst: SRL

 Date Analyzed: 4/9/2021
 Reporting Limit mg/sample
 mg/m3

 Particulate as PM10
 31
 1.0
 0.018

**Lab ID:** 21040210-08A **Collection Date:** 4/1/2021 7:48:00 AM

Client Sample ID: 9894254-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1702160</b>	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	51	1.0	0.030	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1702160</b>	Analyst: AZ
Date Analyzed: 4/12/2021 14:23		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	410	25	0.00024	
Lead	ND	25	<0.000015	
Manganese	26	25	0.000015	

**Client:** Gilbane Company

**Work Order:** 21040210

**Project:** HPNS Parcel E; J310000400-016

Date: 12-Apr-21 **QC BATCH REPORT** 

Batch ID: R190607	Instrument ID: BAL	.2		Method	d: TSP							
DUP	Sample ID: 21040210-02	2A DUP				L	Jnits: <b>mg/</b> s	sample	Analysis	Date: 4/9/	2021	
Client ID: 9894251-N	MSE01	Run ID	BAL2_2	210409A		Se	SeqNo: <b>2436628</b>		Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended part	ticulate	65.27	1.0	0		0	0		65.85	0.885	20	
DUP	Sample ID: 21040375-02	2A DUP				ι	Jnits: <b>mg/</b> s	sample	Analysis	Date: 4/9/	2021	
Client ID:		Run ID	: BAL2_2	210409A		Se	qNo: <b>243</b> 6	6633	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended part	ticulate	71.55	1.0	0		0	0		71.52	0.0419	20	
The following samp	eles were analyzed in this b	oatch:		040210-02 <i>F</i>		1040	210-04A	21	040210-06A			

QC BATCH REPORT

**Client:** Gilbane Company

**Work Order:** 21040210

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>R190608</b>	Instrument ID: BAI	L2		Method	: PM10							
DUP	Sample ID: 21040210-0	1A DUP				U	nits: <b>mg/</b> s	sample	Analysis	Date: 4/9/	2021	
Client ID: Q0424252	-MSE01	Run ID:	BAL2_2	10409B		Sec	No: <b>243</b> 6	6656	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10		41.94	1.0	0		0	0		42.15	0.499	20	
DUP	Sample ID: 21040375-0	1A DUP				U	nits: <b>mg/</b> s	sample	Analysis	Date: 4/9/	2021	
Client ID:		Run ID:	BAL2_2	10409B		Sec	No: <b>243</b> 6	6661	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10		57.28	1.0	0		0	0		56.58	1.23	20	
The following sample	les were analyzed in this	batch:		040210-01A 040210-07A		10402	210-03A	21	040210-05A			

**Client:** Gilbane Company

**Work Order:** 21040210

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>73772</b>	Instrument ID: ICP3			Metho	d: <b>E12</b>								
MBLK	Sample ID: MBLK-73772-	73772				Į	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 02:00 PM		
Client ID:		Run ID:	ICP3_2	10412A		Se	eqNo: <b>243</b> 8	3001	Prep Date: 4/12	/2021	DF: <b>1</b>		
					SPK Ref			Control	RPD Ref		RPD		
Analyte	R	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua	
Copper		ND	100										
_ead		ND	25										
Manganese		ND	100										
_cs	Sample ID: LCS-73772-73	3772				ı	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 02:	04 PM	
Client ID:		Run ID:	ICP3_2	10412A		Se	eqNo: <b>243</b> 8	3002	Prep Date: 4/12	/2021	DF: <b>1</b>		
					SPK Ref			Control	RPD Ref		RPD		
Analyte	R	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua	
Copper	3	355.8	100	450		0	79.1	75-125	0				
_ead	4	431.5	25	450		0	95.9	75-125	0				
Manganese	3	342.9	100	450		0	76.2	75-125	0				
_CSD	Sample ID: LCSD-73772-	73772				Į	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 02:	08 PM	
Client ID:		Run ID:	ICP3_2	10412A		Se	eqNo: <b>243</b> 8	3003	Prep Date: 4/12	/2021	DF: 1		
Analyte	R	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua	
Copper	3	356.1	100	450		0	79.1	75-125	355.8	0.0759	20		
_ead	4	135.7	25	450		0	96.8	75-125	431.5	0.965	20		
Manganese	3	344.8	100	450		0	76.6	75-125	342.9	0.563	20		
MS	Sample ID: <b>21040375-10</b>	A MS				Į	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 03:	02 PM	
Client ID:		Run ID:	ICP3_2	10412A		Se	eqNo: <b>243</b> 8	3013	Prep Date: 4/12	/2021	DF: 1		
	_				SPK Ref Value			Control Limit	RPD Ref Value		RPD Limit	0	
Analyte	R	Result	PQL	SPK Val	value		%REC	Liiiii	Value	%RPD	Lillin	Qua	
Copper		390.2	100	450	41	.5	77.5	75-125	0				
_ead		140.2	25	450		0	97.8	75-125	0				
Manganese		346.1	100	450		0	76.9	75-125	0				
/ISD	Sample ID: 21040375-10A	MSD				Į	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 03:	06 PM	
Client ID:		Run ID:	ICP3_2	10412A		Se	eqNo: <b>243</b> 8	3014	Prep Date: 4/12	/2021	DF: 1		
Analyte	R	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua	
Copper	3	373.3	100	450	41	.5	73.7	75-125	390.2	4.43	20	s	
_ead		142.1	25	450	T1	0	98.2	75-125	440.2	0.428	20		
Manganese		334.7	100	450		0	74.4	75-125	346.1	3.34	20	s	
	ples were analyzed in this ba		21	1040210-02/ 1040210-08/			)210-04A		040210-06A		-		

**Client:** Gilbane Company **QUALIFIERS**,

**Project:** HPNS Parcel E; J310000400-016 ACRONYMS, UNITS

WorkOrder: 21040210

Qualifier	Description			
*	Value exceeds Regulatory Limit			
a	Not accredited			
В	Analyte detected in the associated Method Blank above the Reporting Limit			
E	Value above quantitation range			
Н	Analyzed outside of Holding Time			
J	Analyte detected below quantitation limit			
n	Not offered for accreditation			
ND	Not Detected at the Reporting Limit			
O	Sample amount is > 4 times amount spiked			
P	Dual Column results percent difference > 40%			
R	RPD above laboratory control limit			
S	Spike Recovery outside laboratory control limits			
U Analyzed but not detected above the MDL				
Acronym	Description			
DUP	Method Duplicate			
E	EPA Method			
LCS	Laboratory Control Sample			
LCSD	Laboratory Control Sample Duplicate			
MBLK	Method Blank			
MDL	Method Detection Limit			
MQL	Method Quantitation Limit			
MS	Matrix Spike			
MSD	Matrix Spike Duplicate			
PDS	Post Digestion Spike			
PQL	Practical Quantitaion Limit			
SDL	Sample Detection Limit			
SW	SW-846 Method			
Units Reported	Description			

#### **Units Reported** Description

μg/sample mg/sample

## ALS Environmental

## Sample Receipt Checklist

Client Name:	GILBANE-WALNUTCREEK			Da	ate/Time	Received:	05-	Apr-21	<u>11:49</u>		
Work Order:	21040210			Re	eceived b	y:	<u>SM</u>	<u>s</u>			
Checklist comple	eted by: Jan Wilcox  eSignature	06	-Apr-21	Reviev	ved by:	R 0b 1	Vieman				pr-21
Matrices: Carrier name:	air FedEx		Date			Colgliato					dio
Shipping contain	ner/cooler in good condition?		Yes		No 🗌	Not	Present				
Custody seals in	ntact on shipping container/cooler?	)	Yes		No 🗌	Not	Present				
Custody seals in	stact on sample bottles?		Yes		No 🗌	Not	Present				
Chain of custody	/ present?		Yes 🖢		No 🗌						
Chain of custody	signed when relinquished and red	ceived?	Yes		No 🗌						
Chain of custody	agrees with sample labels?		Yes		No 🗌						
Samples in prop	er container/bottle?		Yes 🖢		No $\square$						
Sample containe	ers intact?		Yes 🖢		No 🗌						
Sufficient sample	e volume for indicated test?		Yes		No 🗌						
All samples rece	ived within holding time?		Yes 🖢		No 🗌						
Container/Temp	Blank temperature in compliance?	?	Yes 🖢		No 🗌						
Sample(s) receive Temperature(s)/	ved on ice? Thermometer(s):		Yes [		No 🗹						
Cooler(s)/Kit(s):											
•	ole(s) sent to storage:		V		NI.	NI- VOA		-201			
	lls have zero headspace?		Yes L	_	No ∐		vials subr	nitted	<b>✓</b>		
	ptable upon receipt?		Yes L	<b>」</b> ¬	No 🗌		<b>✓</b>				
pH adjusted? pH adjusted by:			Yes L		No 🗀	N/A	<b>✓</b>				
Login Notes:								•			
Client Contacted	<b>l</b> :	Date Contacted:			Person	Contacte	d:				
Contacted By:		Regarding:									
Comments:											
CorrectiveAction	n:								S.D.O.	Dogo 1	of 1

## 21040210

## **CHAIN-OF-CUSTODY** RECORD

Gilbane Federal

COC # KT-040121



Event: Parcel E Phase 2 Air

1655 Grant Street, Suite 1200, Concord, CA 94520

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2						Laboratory: ALS Laboratory Group, Cincinnati, OH									Event: Parcel E Phase 2 Air  Monitoring				
	ect Number: J310000400					PO												- Indiana	
	S Code: J310000400-016					Ship	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242												
Con	nments:				T	П	П	T	$\top$	TT	$\Box$		Code	Matrix					
00	5 E B 17 Gara a 18 an again								- 1	1.1			Α	Air					
													Code	Container/Preservative	•				
													1						
												1	1x Envelope, None						
					D D														
				Test Method	0	링				1.1									
Equ	ilpment:				ts	Air PM10		TSP											
					一一	₽.	Air Pb Mn	Air											
					j <u>₹</u>	E E	1 . 1	1											
					Analytical	CAAIR	E12	N0500											
100	Event: Parcel E Phase 2 /	Air Monitorin	g			1	1	1											
					Samp										Sample		(ft bgs)		Comments
	Sample ID	Matrix	Date	Time	Init.									Location ID	Туре	_	Bottom	Cooler	VOLUME: 1569.21
1	Q0424252-MSE01	A	03/31/2021	0758	KT	X								AMSE1	N1	0.00	0.00	1	
2	9894251-MSE01	A	03/31/2021	0758	KT		Х	Х						AMSE1	N1	0.00	0.00	1	VOLUME: 1618.47
3	Q0424253-MSE02	A	03/31/2021	0730	КТ	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1675.09
4	9894252-MSE02	A	03/31/2021	0730	KT		Х	Х						AMSE2	N1	0.00	0.00	1	VOLUME: 1710.93
5	Q0424254-MSE01	A	04/01/2021	0758	KT	Х								AMSE1	N1	0.00	0.00	1	VOLUME: 1647.67
6	9894253-MSE01	A	04/01/2021	0758	KT		Х	х						AMSE1	N1	0.00	0.00	1	VOLUME: 1682.28
7	Q0424255-MSE02	A	04/01/2021	0748	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1669.64
8		A	04/01/2021	0748	KT	$\top$	X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1702.16
	rnaround Time: 5 Days				1	-	-	_					•						
EMI	illaivella tillie. J Days																		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
B	4/2/21	1000	Rdex	4/2/21	1000	Shipping Date: 4/1/2021 7733 2047 2174
73			Shamesger	4/5/21	1149	Received by Laboratory: (Signature, Date, Time) & condition
			(A 110-10-7)			



13-Apr-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21040375

Dear Brett,

ALS Environmental received 16 samples on 07-Apr-2021 11:03 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

## R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



**Client:** Gilbane Company

**Project:** HPNS Parcel E; J310000400-016

Work Order: 21040375

## **Work Order Sample Summary**

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	Hold
21040375-01	Q0424256-MSE01	Air		4/2/2021 07:45	4/7/2021 11:03	
21040375-02	9894255-MSE01	Air		4/2/2021 07:45	4/7/2021 11:03	
21040375-03	Q0424257-MSE02	Air		4/2/2021 07:34	4/7/2021 11:03	
21040375-04	9894256-MSE02	Air		4/2/2021 07:34	4/7/2021 11:03	
21040375-05	Q0424258-MSE01	Air		4/3/2021 08:38	4/7/2021 11:03	
21040375-06	9894257-MSE01	Air		4/3/2021 08:38	4/7/2021 11:03	
21040375-07	Q0424259-MSE02	Air		4/3/2021 08:20	4/7/2021 11:03	
21040375-08	9894258-MSE02	Air		4/3/2021 08:20	4/7/2021 11:03	
21040375-09	Q0424260-MSE01	Air		4/3/2021 15:35	4/7/2021 11:03	
21040375-10	9894259-MSE01	Air		4/3/2021 15:35	4/7/2021 11:03	
21040375-11	Q0424261-MSE02	Air		4/3/2021 15:25	4/7/2021 11:03	
21040375-12	9894260-MSE02	Air		4/3/2021 15:25	4/7/2021 11:03	
21040375-13	Q0424262-MSE01	Air		4/6/2021 07:43	4/7/2021 11:03	
21040375-14	9894261-MSE01	Air		4/6/2021 07:43	4/7/2021 11:03	
21040375-15	Q0424263-MSE02	Air		4/6/2021 07:30	4/7/2021 11:03	
21040375-16	9894262-MSE02	Air		4/6/2021 07:30	4/7/2021 11:03	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21040375

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21040375

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040375-01A **Collection Date:** 4/2/2021 7:45:00 AM

Client Sample ID: Q0424256-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1608410 Analyst: SRL

Date Analyzed: 4/9/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 57 1.0 0.035

**Lab ID:** 21040375-02A **Collection Date:** 4/2/2021 7:45:00 AM

Client Sample ID: 9894255-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1604990	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	72	1.0	0.045	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1604990</b>	Analyst: AZ
Date Analyzed: 4/12/2021 14:27		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	460	100	0.00029	
Lead	26	25	0.000016	
Manganese	ND	100	<0.000062	

**Lab ID:** 21040375-03A Collection Date: 4/2/2021 7:34:00 AM

Client Sample ID: Q0424257-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1637100	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	35	1.0	0.021	

Client: Gilbane Company Work Order: 21040375

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040375-04A **Collection Date:** 4/2/2021 7:34:00 AM

Client Sample ID: 9894256-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1669150</b>	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	50	1.0	0.030	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1669150</b>	Analyst: AZ
Date Analyzed: 4/12/2021 14:31		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	130	100	0.000075	
Lead	ND	25	<0.000015	
Manganese	ND	100	<0.000060	

**Lab ID:** 21040375-05A **Collection Date:** 4/3/2021 8:38:00 AM

Client Sample ID: Q0424258-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1682380	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	39	1.0	0.023	

**Lab ID:** 21040375-06A **Collection Date:** 4/3/2021 8:38:00 AM

Client Sample ID: 9894257-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1703930	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	44	1.0	0.026	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1703930</b>	Analyst: AZ
Date Analyzed: 4/12/2021 14:51		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	140	100	0.000082	
Lead	ND	25	<0.000015	
Manganese	ND	100	<0.000059	

Client: Gilbane Company Work Order: 21040375

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040375-07A **Collection Date:** 4/3/2021 8:20:00 AM

Client Sample ID: Q0424259-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1693990	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	28	1.0	0.016	

**Lab ID:** 21040375-08A **Collection Date:** 4/3/2021 8:20:00 AM

Client Sample ID: 9894258-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1725780	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	44	1.0	0.026	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1725780	Analyst: AZ
Date Analyzed: 4/12/2021 14:55		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	180	100	0.00010	
Lead	ND	25	<0.000014	
Manganese	ND	100	<0.000058	

**Lab ID:** 21040375-09A **Collection Date:** 4/3/2021 3:35:00 PM

Client Sample ID: Q0424260-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): <b>459890</b>	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	6.3	1.0	0.014	

Client: Gilbane Company Work Order: 21040375

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040375-10A **Collection Date:** 4/3/2021 3:35:00 PM

Client Sample ID: 9894259-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 460300	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	5.9	1.0	0.013	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 460300	Analyst: AZ
Date Analyzed: 4/12/2021 14:58		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	ND	100	<0.00022	
Lead	ND	25	<0.00054	
Manganese	ND	100	<0.00022	

**Lab ID:** 21040375-11A **Collection Date:** 4/3/2021 3:25:00 PM

Client Sample ID: Q0424261-MSE02 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 490160	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	4.6	1.0	0.0093	

**Lab ID:** 21040375-12A **Collection Date:** 4/3/2021 3:25:00 PM

Client Sample ID: 9894260-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 503130	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate 5.9		1.0	0.012	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>503130</b>	Analyst: AZ
Date Analyzed: 4/12/2021 15:10		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	ND	100	<0.00020	
Lead	ND	25	<0.00050	
Manganese	ND	100	<0.00020	

Client: Gilbane Company Work Order: 21040375

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040375-13A **Collection Date:** 4/6/2021 7:43:00 AM

Client Sample ID: Q0424262-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1619350 Analyst: SRL

Date Analyzed: 4/9/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 30 1.0 0.018

**Lab ID:** 21040375-14A **Collection Date:** 4/6/2021 7:43:00 AM

Client Sample ID: 9894261-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1551880	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	27	1.0	0.017	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1551880</b>	Analyst: AZ
Date Analyzed: 4/12/2021 15:13		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	150	100	0.000096	
Lead	ND	25	<0.000016	
Manganese	ND	100	<0.00064	

**Lab ID:** 21040375-15A Collection Date: 4/6/2021 7:30:00 AM

Client Sample ID: Q0424263-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1637710	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	23	1.0	0.014	

Client: Gilbane Company Work Order: 21040375

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040375-16A **Collection Date:** 4/6/2021 7:30:00 AM

Client Sample ID: 9894262-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1672150</b>	Analyst: SRL
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	32	1.0	0.019	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1672150</b>	Analyst: AZ
Date Analyzed: 4/12/2021 15:17		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	220	100	0.00013	
Lead	ND	25	<0.000015	
Manganese	ND	100	<0.00060	

## ALS Environmental

**Client:** Gilbane Company

**Work Order:** 21040375

**Project:** HPNS Parcel E; J310000400-016

Date: 13-Apr-21 **QC BATCH REPORT** 

Batch ID: R1906	607 Instrument ID: BA	L2		Method	: TSP							
DUP	Sample ID: 21040210-0	2A DUP				Units: mg/sample			Analysi	s Date: <b>4/9</b> /	/2021	
Client ID:		Run IE	BAL2_	210409A		Se	qNo: <b>243</b> (	6628	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended	d particulate	65.27	1.0	0		0	0		65.85	0.885	20	
DUP	Sample ID: 21040375-0	Sample ID: 21040375-02A DUP				Units: mg/sample Analysis Date: 4/9/2021						
Client ID: 98942	255-MSE01	Run ID: BAL2_210409A				SeqNo: 2436633		Prep Date:		DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended	d particulate	71.55	1.0	0		0	0		71.52	0.0419	20	
The following s	amples were analyzed in this	batch:	2	21040375-02A 21040375-08A 21040375-14A	. 2	1040	375-04A 375-10A 375-16A		040375-06A 040375-12A			

QC BATCH REPORT

**Client:** Gilbane Company

**Work Order:** 21040375

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>R190608</b>	Instrument ID: BAL	L2		Method	d: PM10								
DUP	Sample ID: 21040210-0	1A DUP				ι	Jnits: <b>mg/</b> s	sample	Analys	sis Date: <b>4/9</b> /	/2021		
Client ID:		Run ID	): BAL2_2	210409B		Se	qNo: <b>243</b> (	6656	Prep Date:		DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua	
Particulate as PM10		41.94	1.0	0		0	0		42.1	5 0.499	20		
DUP	Sample ID: 21040375-0	1A DUP	A DUP			Units: mg/sample			Analys	Analysis Date: 4/9/2021			
Client ID: Q0424256-	-MSE01	Run IE	): BAL2_2	210409B		SeqNo: 2436661			Prep Date: DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua	
Particulate as PM10		57.28	1.0	0		0	0		56.5	8 1.23	20		
The following sampl	es were analyzed in this l	batch:	21	040375-01A 040375-07A 040375-13A	. 21	1040	375-03A 375-09A 375-15A		040375-05A 040375-11A				

**Client:** Gilbane Company

**Work Order:** 21040375

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>73772</b>	Instrument ID: ICP	3		Metho	d: <b>E12</b>							
MBLK	Sample ID: MBLK-7377	2-73772				ι	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 02:	00 PM
Client ID:		Run ID	: ICP3_2	10412A		Se	qNo: <b>243</b>	8001	Prep Date: 4/12	/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		ND	100									
Lead		ND	25									
Manganese		ND	100									
LCS	Sample ID: LCS-73772-	73772				ι	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 02:	04 PM
Client ID:		Run ID	: ICP3_2	10412A		Se	qNo: <b>243</b>	8002	Prep Date: 4/12	/2021	DF: <b>1</b>	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		355.8	100	450		0	79.1	75-125	0			
Lead		431.5	25	450		0	95.9	75-125	0			
Manganese		342.9	100	450		0	76.2	75-125	0			
LCSD	Sample ID: LCSD-7377	2-73772				Į	Jnits: µg/s	ample	Analysis	Date: 4/12	2/2021 02:	08 PN
Client ID:			: ICP3_2	10412A			qNo: <b>243</b>	-	Prep Date: 4/12		DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		356.1	100	450		0	79.1	75-125	355.8	0.0759	20	
Lead		435.7	25	450		0	96.8	75-125	431.5	0.965	20	
Manganese		344.8	100	450		0	76.6	75-125	342.9	0.563	20	
MS	Sample ID: <b>21040375-1</b>	OA MS				-	Inits: uals	amnla	Analysis	Date: 4/12	)/2021 03·	no DM
Client ID: <b>9894259</b> -			: ICP3_2	10412Δ		Units: µg/sample Analysis Da SeqNo: 2438013 Prep Date: 4/12/20				DF: 1	UZ 1 IVI	
3001200			.0. 0		SPK Ref		,	Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
		390.2	100	450	4.6	1.5	77.5	75-125	0			
Copper Lead		440.2	25	450	4	0	97.8	75-125	0			
Manganese		346.1	100	450		0	76.9	75-125	0			
Med	Comple ID: 24040275 4	OA MED				-	Inito:	ammla	Analysis	Doto: Alas	)/2024 02.	06 DM
MSD	Sample ID: 21040375-1		· ICDA A	404404			Jnits: µg/s	-	·	Date: 4/12		U6 PIV
Client ID: 9894259-	-IVI3EUT	KuniD	: ICP3_2	1041ZA			eqNo: <b>243</b>		Prep Date: 4/12	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		373.3	100	450	4′	1.5	73.7	75-125	390.2	4.43	20	S
Lead		442.1	25	450	_	0	98.2	75-125	440.2	0.428	20	_
Manganese		334.7	100	450		0	74.4	75-125	346.1	3.34	20	S
The following sam	ples were analyzed in this	batch:	21	1040375-02/ 1040375-08/ 1040375-14/	A 2	1040	)375-04A )375-10A )375-16A		040375-06A 040375-12A			

**Client:** Gilbane Company

**QUALIFIERS**, **Project:** HPNS Parcel E; J310000400-016 ACRONYMS, UNITS

WorkOrder: 21040375

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
О	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
<b>Units Reported</b>	<u>Description</u>

μg/sample mg/sample

## ALS Environmental

## Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK				Date/Time Received:			07-Apr-21 11:03			
Work Order: 2	<u>1040375</u>				Received by	y:	<u>JNW</u>			
Checklist complete	ed by: R 0b N ieman  eSignature	12	-Apr-21 Date	_	Reviewed by:	R ob Nie	man			12-Apr-21
Matrices: Carrier name:	FedEx	l							I	
Shipping container	r/cooler in good condition?		Yes	<b>v</b>	No 🗌	Not Pres	ent 🗌			
Custody seals inta	act on shipping container/cooler?	,	Yes	<b>✓</b>	No 🗌	Not Pres	ent 🗌			
Custody seals inta	act on sample bottles?		Yes		No 🗏	Not Pres	ent 🔲			
Chain of custody p	present?		Yes	<b>✓</b>	No 🗌					
Chain of custody s	signed when relinquished and red	ceived?	Yes	<b>✓</b>	No 🗌					
Chain of custody a	agrees with sample labels?		Yes	<b>✓</b>	No 🗌					
Samples in proper	container/bottle?		Yes	<b>v</b>	No 🗆					
Sample containers	s intact?		Yes	<b>v</b>	No 🗌					
Sufficient sample	volume for indicated test?		Yes	<b>~</b>	No 🗌					
All samples receive	ed within holding time?		Yes	<b>~</b>	No 🗌					
Container/Temp B	Blank temperature in compliance?	?	Yes	<b>v</b>	No 🗌					
Sample(s) receive Temperature(s)/Th			Yes		No 🗹					
Cooler(s)/Kit(s):										
•	e(s) sent to storage:		Van		N <sub>0</sub>	Na VOA sial				
	have zero headspace?		Yes		No L	No VOA vial	s submitted			
Water - pH accept	able upon receipt?		Yes		No 🔳	N/A				
pH adjusted? pH adjusted by:			Yes -		No 🗏	N/A				
Login Notes:								<b>-</b>		
-										
		_ — — — — — -								
		_ — — — — — -								
Client Contacted:		Date Contacted:			Person	Contacted:				
Contacted By:		Regarding:								
,		.5								
Comments:										
CorrectiveAction:										
									NDC D	an 1 of 1

## CHAIN-OF-CUSTODY RECORD

Gilbane Federal

COC# KT040621

Gilbane

1655 Grant Street, Suite 1200, Concord, CA 94520

21040375

Project Name: Hunters Point Shipyaro, Parcel E HA Phase 2									Laboratory: ALS Laboratory Group, Cincinnati, OH										Event: Parcel E Phase 2 Air Monitoring			
Project Number: J310000400 WBS Code: J310000400-016								POC:														
								Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242														
Comments:							lo Cu					Code Matrix  A Air  Code Container/Preservative  1 1x 250-mL Plastic, 4 Degrees C  1 1x Envelope, None										
Ednibmeut:						CAAIR - Air PM10	E12 - Air Pb Mn	N0500 - Air TSP											And the state of t			
	Event: Parcel E Phase 2 A	ir Monitorin	g			1	1	1														
	Sample ID	Matrix	Date	Time	Samp Init.									Locati	on ID	Sample Type	**********	(ft bgs) Bottom	Cooler	Comments		
1	Q0424256-MSE01	Α	04/02/2021	0745	KT	Х	***************************************							AMS	3E1	N1	0.00	0.00	1	VOLUME: 1608.41		
2	9894255-MSE01	Α	04/02/2021	0745	КТ		Х	Х		T				AMS	E1	N1	0.00	0.00	1	VOLUME: 1604.99		
3	Q0424257-MSE02	Α	04/02/2021	0734	KT	Х				Ī				AMS	E2	N1	0.00	0.00	1	VOLUME: 1637.10		
4	9894256-MSE02	Α	04/02/2021	0734	КТ		Χ	Χ						AMS	E2	N1	0.00	0.00	1	VOLUME: 1669.15		
5	Q0424258-MSE01	А	04/03/2021	0838	KT	Х								AMS	SE1	N1	0.00	0.00	1	VOLUME: 1682.38		
6	9894257-MSE01	Α	04/03/2021	0838	KT		Х	Χ		T			Ī	AMS	SE1	N1	0.00	0.00	1	VOLUME: 1703.93		
7	Q0424259-MSE02	Α	04/03/2021	0820	KT	Х								AMS	E2	N1	0.00	0.00	1	VOLUME: 1693.99		
8	9894258-MSE02	Α	04/03/2021	0820	KT		Х	Χ		T				AMS	SE2	N1	0.00	0.00	1	VOLUME: 1725.78		
9	Q0424260-MSE01	Α	04/03/2021	1535	KT	Х						7		AMS	SE1	N1	0.00	0.00	1	VOLUME: 459.89		
10	9894259-MSE01	A	04/03/2021	1535	KT		Χ	Χ						AMS	SE1	N1	0.00	0.00	1	VOLUME: 460.30		
11	Q0424261-MSE02	Α	04/03/2021	1525	KT	Х								AMS	SE2	N1	0.00	0.00	1	VOLUME: 490.16		
Rel	linquished by: (Signature)		Date	Time	Receive	d by	: (Si	gna	ture)					Date	Time	Shipping D	ate / Ca	arrier / A	irbill Nu	mber		
					Ed (x							ı	4/6/21 [265 Shipping Date: 4/6/2021/F									
						_			4	4	25		ł		٥3	Received b	y Labo	ratory: (	(Signature	e, Date, Time) & condition		

### CHAIN-OF-CUSTODY RECORD

Gilbane Federal

Time

1525

0743

0743

0730

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Init.

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1655 Grant Street, Suite 1200, Concord, CA 94520

COC# KT040621

21040375

Location ID

AMSE2

AMSE1

AMSE1

AMSE2

AMSE2

Top - Bottom

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0.00

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Type

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N1

N<sub>1</sub>

N1

N<sub>1</sub>

Cooler

1

1

1

1

1



Comments

VOLUME: 503.13

**VOLUME: 1619.35** 

VOLUME: 1551.88

VOLUME: 1637.71

VOLUME: 1672.15

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Laboratory: ALS Laboratory Group, Cincinnati, OH Event: Parcel E Phase 2 Air Monitoring Project Number: J310000400 POC: Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242 WBS Code: J310000400-016 Comments: Code Matrix A Air Code Container/Preservative 1x 250-mL Plastic, 4 Degrees C 1 1 1x Envelope, None Analytical Test Method O CAAIR - Air PM10 Equipment: E12 - Air Pb Mn N0500 - Air TSP 1 1 1 Event: Parcel E Phase 2 Air Monitoring Depth (ft bgs) Sample Samp

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
The state of the s	4/6/21	1200	Fed&	4/6/21	1200	Shipping Date: 4/6/2021/FedEx 773364958806
			11 -AIC	4/7/21	110	
					( /	Received by Laboratory: (Signature, Date, Time) & condition
and a second sec		AAAA				
Service Control of the Control of th						

Sample ID

13

15

16

17

12 9894260-MSE02

Q0424262-MSE01

9894261-MSE01

Q0424263-MSE02

9894262-MSE02

Turnaround Time: 5 days

Matrix

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Date

04/03/2021

04/06/2021

04/06/2021

04/06/2021

04/06/2021

## **Laboratory Analysis Report**

Job ID: 21040543



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: Total Number of Pages: 4 Client Name: Gilbane

> Attn: **Brett Womack** P.O.#.: J310000400-0015 1655 Grant Street, Suite 1200 Date Received: 04/08/2021 11:30 Client Address: City, State, Zip: Concord, California, 94520 Sample Collected By: Kimberly Tom

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

Client Sample ID MSE01-040121	Sample Collection Date & Time 4/1/2021 16:32	<b>Matrix</b> Cassette	<b>A&amp;B Job Sample ID</b> 21040543.01
MSE02-040121	4/1/2021 16:22	Cassette	21040543.02
MSE01-040221	4/2/2021 15:30	Cassette	21040543.03
MSE02-040221	4/2/2021 15:40	Cassette	21040543.04
MSE01-040321	4/3/2021 15:25	Cassette	21040543.05
MSE02-040321	4/3/2021 15:30	Cassette	21040543.06
MSE01-040521	4/5/2021 16:38	Cassette	21040543.07
MSE02-040521	4/5/2021 16:30	Cassette	21040543.08

acione Hugues Released By: Alisha Hughes

Project Manager

Title:

Analyst:

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation. ab-q210-0321

4/13/2021

Page 1 of 4 Report Number: RPT210413039

# **a**b

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

Date 4/13/2021

Job ID: 21040543

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2	Project: HPN	00		Attn: Brett Womack										
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
21040543.01	MSE01-040121	04/01/2021	Area	2			504	1008	100	14.5	18.471	0.007		04/13/21	Habedi
21040543.02	MSE02-040121	04/01/2021	Area	2			509	1018	100	12.0	15.287	0.006		04/13/21	Habedi
21040543.03	MSE01-040221	04/02/2021	Area	2			459	918	100	14.0	17.834	0.007		04/13/21	Habedi
21040543.04	MSE02-040221	04/02/2021	Area	2			481	962	100	10.0	12.739	0.005		04/13/21	Habedi
21040543.05	MSE01-040321	04/03/2021	Area	2			410	820	100	10.0	12.739	0.006		04/13/21	Habedi
21040543.06	MSE02-040321	04/03/2021	Area	2			423	846	100	8	10.191	0.005		04/13/21	Habedi
21040543.07	MSE01-040521	04/05/2021	Area	2			528	1056	100	8.5	10.828	0.004		04/13/21	Habedi
21040543.08	MSE02-040521	04/05/2021	Area	2			530	1060	100	10.5	13.376	0.005		04/13/21	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>21040543</b> Dat	Received : <b>04/08/2021</b>	Time Received : 11	:30AM				
Clier	nt Name : Gilbane							
Tem	perature : <b>21.9°C</b> San	ple pH: <b>N/A</b>						
Ther	mometer ID : <b>102002320</b> pH	aper ID: <b>N/A</b>						
Pers	servative :							
				_				
	Check Points							
1.	Cooler seal present and signed.			Х				
2.	Sample(s) in a cooler.				Х			
3.	If yes, ice in cooler.					Х		
4.	Sample(s) received with chain-of-custody			Х				
5.	C-O-C signed and dated.							
6.	Sample(s) received with signed sample custody seal.							
7.	Sample containers arrived intact. (If no co	mment).		Х				
_	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge F							
8.								
9.	Sample(s) were received in appropriate co			X	L			
		ntainer(s).		<u></u>		X		
9.	Sample(s) were received in appropriate co	ntainer(s).		<u></u>				
9. 10.	Sample(s) were received in appropriate co	ntainer(s).		X	X			
9. 10. 11.	Sample(s) were received in appropriate consumple(s) were received with proper presumples were logged or labeled.	ntainer(s). ervative		X				
9. 10. 11. 12.	Sample(s) were received in appropriate consumple(s) were received with proper pressed In Samples were logged or labeled.  Sample ID labels match C-O-C ID's	ntainer(s). ervative		X				
9. 10. 11. 12. 13.	Sample(s) were received in appropriate co Sample(s) were received with proper pres All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottles fou	ntainer(s). ervative  nd. quested.		X X X				
9. 10. 11. 12. 13.	Sample(s) were received in appropriate consumple(s) were received with proper pressorable samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles for Sample volume is sufficient for analyses received.	ntainer(s). ervative  nd. quested.		X X X				
9. 10. 11. 12. 13. 14.	Sample(s) were received in appropriate consumple(s) were received with proper pressonal samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles four sample volume is sufficient for analyses received within the hold time.	ntainer(s). ervative  nd. quested.		X X X		X		
9. 10. 11. 12. 13. 14. 15.	Sample(s) were received in appropriate consumple(s) were received with proper pressonal samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles four sample volume is sufficient for analyses received within the hold time.	ntainer(s). ervative  nd. quested.		X X X X X		X		
9. 10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropriate consumple(s) were received with proper pressonal samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles four sample volume is sufficient for analyses received within the hold time. VOA vials completely filled.  Sample accepted.	ntainer(s). ervative  nd. quested. e.		X X X X X		X		
9. 10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropriate consumple(s) were received with proper pressonal samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles for sample volume is sufficient for analyses received within the hold time. VOA vials completely filled.  Sample accepted.  Has client been contacted about sub-out	ntainer(s). ervative  nd. quested. e. crepancies/problem:		X X X X X		X		
9. 10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropriate consumple(s) were received with proper pressonal samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles four sample volume is sufficient for analyses received within the hold time. VOA vials completely filled.  Sample accepted.  Has client been contacted about sub-out ments: Include actions taken to resolve dispersion.	ntainer(s). ervative  nd. quested. e. crepancies/problem:		X X X X X		X		

Received by : JMontemayor Check in by/date : JMontemayor / 04/08/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Cilba	ne													Chain-Of-Custody
Project Name and N		HPNS Parcel 1	E Phase II J	3100004	100	_	Labor	atom. N	lans a t	A&F	3 Labs			Date: 4/6/2021
Project Manager							Labora Addres					100	Contact	
Site Location: Hur	nters Poin	t, San Francisc	co, CA 941	124			Addres	-		n TX 7	wy Ste.	100	Contact	t Name Page: 1 of 1
				T	1		1	Ŧ	Anal		11049			
							<u> </u>		Anai	ysis.				
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							1							★ Job ID:21040543
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				Sample Depth (top)	Sample Depth (bottom)	of Containers	i X	Asbestos						
				)ept	)ept	onta	fatr	1	arvative					
				le I	le I	J.C.	le N	Non					1	Flow Rate = 2 L/min
Sample ID		Date	Time	amp	amp	No. o	Sample Matrix	Conta	iner Ty	pe:				Special Instructions/Comments
MCEO1 040101	۵۱۸				-	1	-	Fil	ter					Total Time (min)
MSE01-040121	OA	4/01/2021	1632	NA	NA	1	AA	X						504
MSE02-040121	450	4/01/2021	1622	NA	NA	1	ĀĀ	X						509
MSE01-040221	03/4	4/02/2021	1530	NA	NA	1	AA	Χ						459
MSE02-040221	OHA	4/02/2021	1540	NA	NA	1	AA	Х						481
MSE01-040321	084	4/03/2021	1525	NA	NA	1	AA	Χ						410
MSE02-040321	06A	4/03/2021	1530	NA	NA	1	AA	Χ						423
MSE01-040521	074	4/05/2021	1638	NA	NA	1	AA	X						528
MSE02-040521	ORA	4/05/2021	1630	NA	NA	1	AA	Χ						530
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Sampled By:	mberly	to			Sample	er:	Kin	eber	(4)	7	_			Courier/Airbill No.: FedEx/ 7733 5786 4807
Signature:		)		F	Relinquis	shed B	y/Affilia	tion:	1		D	ate:	Time:	Received By/ Affiliation: Date: Time
Special Instructions:	D890			- F	1/	1 1		_	0	61		.//		
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Send				-  -										
Results to:				_  -										
Turnaround Time: St	andard													NC 21912 10707525 =15

Page 4 of 4



16-Apr-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21040568

Dear Brett,

ALS Environmental received 8 samples on 09-Apr-2021 11:36 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

## R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Work Order Sample Summary

Work Order: 21040568

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	Hold
21040568-01	Q0424264-MSE01	Air		4/7/2021 07:45	4/9/2021 11:36	
21040568-02	9894264-MSE01	Air		4/7/2021 07:45	4/9/2021 11:36	
21040568-03	Q0424265-MSE02	Air		4/7/2021 07:32	4/9/2021 11:36	
21040568-04	9894263-MSE02	Air		4/7/2021 07:32	4/9/2021 11:36	
21040568-05	Q0424266-MSE01	Air		4/8/2021 08:00	4/9/2021 11:36	
21040568-06	9894265-MSE01	Air		4/8/2021 08:00	4/9/2021 11:36	
21040568-07	Q0424267-MSE02	Air		4/8/2021 07:35	4/9/2021 11:36	
21040568-08	9894266-MSE02	Air		4/8/2021 07:35	4/9/2021 11:36	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21040568

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21040568

**Project:** HPNS Parcel E; J310000400-016

# **Analytical Results**

**Lab ID:** 21040568-01A **Collection Date:** 4/7/2021 7:45:00 AM

Client Sample ID: Q0424264-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1632250	Analyst: SRL
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	42	1.0	0.025	

**Lab ID:** 21040568-02A **Collection Date:** 4/7/2021 7:45:00 AM

Client Sample ID: 9894264-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1679890	Analyst: SRL
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	44	1.0	0.026	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1679890</b>	Analyst: AZ
Date Analyzed: 4/15/2021 22:01		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	150	25	0.000087	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040568-03A **Collection Date:** 4/7/2021 7:32:00 AM

Client Sample ID: Q0424265-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1646810	Analyst: SRL
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	42	1.0	0.025	

Client: Gilbane Company Work Order: 21040568

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040568-04A **Collection Date:** 4/7/2021 7:32:00 AM

Client Sample ID: 9894263-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1681510	Analyst: SRL
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	56	1.0	0.033	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1681510	Analyst: AZ
Date Analyzed: 4/15/2021 22:04		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	150	25	0.000092	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040568-05A **Collection Date:** 4/8/2021 8:00:00 AM

Client Sample ID: Q0424266-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1639060	Analyst: SRL
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	58	1.0	0.035	

**Lab ID:** 21040568-06A **Collection Date:** 4/8/2021 8:00:00 AM

Client Sample ID: 9894265-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1633230	Analyst: SRL
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	41	1.0	0.025	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1633230</b>	Analyst: AZ
Date Analyzed: 4/15/2021 22:16		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	110	25	0.000070	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

Client: Gilbane Company Work Order: 21040568

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040568-07A **Collection Date:** 4/8/2021 7:35:00 AM

Client Sample ID: Q0424267-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1645540 Analyst: SRL

Date Analyzed: 4/14/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 26 1.0 0.016

**Lab ID:** 21040568-08A **Collection Date:** 4/8/2021 7:35:00 AM

Client Sample ID: 9894266-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1681080</b>	Analyst: SRL
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	33	1.0	0.020	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1681080</b>	Analyst: AZ
Date Analyzed: 4/15/2021 22:20		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	71	25	0.000042	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Client:** Gilbane Company

**Work Order:** 21040568

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R190753 Instrument ID: BAL2 Method: TSP

DUP Sample ID: 21040568-04A DUP						Units: mg/sample Analysis Date: 4/14/2021						
Client ID: 9894263-M	SE02	Run ID:	BAL2_2	10414A		Se	qNo: <b>2439</b>	594	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended parti	culate	55.22	1.0	0		0	0		55.	71 0.883	20	

The following samples were analyzed in this batch:

21040568-02A 21040568-04A 21040568-06A 21040568-08A

QC BATCH REPORT

Client: Gilbane Company QC BATCH REPORT

**Work Order:** 21040568

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R190754	Instrument ID: BAL2	Method: PM10
-------------------	---------------------	--------------

DUP	Sample ID: 21040568-01	A DUP			Units: mg/sample Analysis Date:				sis Date: 4/14	1/2021		
Client ID: Q0424264-MSE01 Run ID: BAL2_210414B						SeqNo: 2439598 Prep Date			Prep Date:	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10		41.35	1.0	0		0	0		41.5	57 0.531	20	

The following samples were analyzed in this batch:

21040568-01A 21040568-03A 21040568-05A 21040568-07A

**Client:** Gilbane Company

**Work Order:** 21040568

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>73886</b>	Instrument ID:	ICP1		Metho	d: <b>E12</b>							
MBLK	Sample ID: MBLK-7	3886-73886				Uı	nits: µg/s	sample	Analysi	s Date: <b>4/1</b>	5/2021 09:	49 PM
Client ID:		Run ID	: ICP1_2	10415B		Seq	No: <b>244</b>	1858	Prep Date: 4/1	5/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		ND	100									
Lead		ND	25									
Manganese		ND	100									
LCS	Sample ID: LCS-738	886-73886				Uı	nits: µg/s	sample	Analysi	s Date: <b>4/1</b>	5/2021 09:	53 PM
Client ID:		Run ID	: ICP1_2	10415B		Seq	No: <b>244</b>	1859	Prep Date: 4/1	5/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper		346	100	450		0	76.9	75-125	0	)		
Lead		373	25	450		0	82.9	75-125	0	)		
Manganese		339.9	100	450		0	75.5	75-125	0	)		
LCSD	Sample ID: LCSD-73	3886-73886				Units: µg/sample		Analysi	5/2021 09:	57 PM		
Client ID:		Run ID	: ICP1_2	10415B		Seq	No: <b>244</b>	1860	Prep Date: 4/1	5/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		355.1	100	450		0	78.9	75-125	346	2.62	20	
Lead		378.8	25	450		0	84.2	75-125	373	1.56	20	
Manganese		347.8	100	450		0	77.3	75-125	339.9	2.3	20	
MS	Sample ID: 2104056	8-04A MS				Uı	nits: µg/s	sample	Analysi	s Date: <b>4/1</b>	5/2021 10:	08 PM
Client ID: 9894263	-MSE02	Run ID	: ICP1_2	10415B		Seq	No: <b>244</b>	1863	Prep Date: 4/1	5/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		487.4	100	450		54	74.1	75-125	0			S
Lead		368.2	25	450	4.0		80.9	75-125	0			_
Manganese		335.9	100	450	14.:	26	71.5	75-125	0			S
MSD	Sample ID: <b>2104056</b>					Uı	nits: µg/s	sample		s Date: 4/1	5/2021 10:	12 PM
Client ID: <b>9894263</b>	-MSE02	Run ID	: ICP1_2	10415B		Seq	No: <b>244</b>	1864	Prep Date: 4/1	5/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		522	100	450	1	54	81.8	75-125	487.4	6.87	20	
Lead		380.2	25	450	4.0	16	83.6	75-125	368.2	3.21	20	
Manganese		350.7	100	450	14.	26	74.8	75-125	335.9	4.3	20	S
The following sam	nples were analyzed in tl	his batch:		1040568-02A		10405	568-04A	21	040568-06A			

Client: Gilbane Company **QUALIFIERS**,

**Project:** HPNS Parcel E; J310000400-016 ACRONYMS, UNITS

WorkOrder: 21040568

> μg/sample mg/sample

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
<b>Units Reported</b>	Description

QF Page 1 of 1

# ALS Environmental

### Sample Receipt Checklist

Client Name: G	GILBANE-WALNUTCREEK				Date/Time	Received:	<u>09-7</u>	Apr-21	<u>11:36</u>		
Work Order: 2	1040568				Received b	y:	<u>SM</u>	<u>s</u>			
Checklist complete	ed by: Stephanie H arring  ———————————————————————————————————	ton 12	2-Apr-21	=	Reviewed by:	R 0b N				13-Ap	
Matrices: Carrier name:	<u>FedEx</u>										
Shipping container	r/cooler in good condition?		Yes	<b>V</b>	No 🗌	Not P	resent				
Custody seals inta	act on shipping container/cooler?		Yes	<b>✓</b>	No 🗌	Not P	resent				
Custody seals inta	act on sample bottles?		Yes		No 🗌	Not P	resent	<b>✓</b>			
Chain of custody p	present?		Yes	<b>✓</b>	No 🗌						
Chain of custody s	signed when relinquished and red	eived?	Yes	<b>✓</b>	No 🗌						
Chain of custody a	agrees with sample labels?		Yes	<b>✓</b>	No 🗌						
Samples in proper	r container/bottle?		Yes	<b>V</b>	No 🗌						
Sample containers	s intact?		Yes	<b>V</b>	No 🗌						
Sufficient sample	volume for indicated test?		Yes	<b>V</b>	No 🗌						
All samples receiv	red within holding time?		Yes	<b>V</b>	No 🗌						
Container/Temp B	Blank temperature in compliance?		Yes	<b>✓</b>	No 🗌						
Sample(s) receive Temperature(s)/Th			Yes		No 🗹						
Cooler(s)/Kit(s):											
•	e(s) sent to storage:		Vac		No	No VOA	مطريه مامة	o:tto d	<b>V</b>		
	have zero headspace?		Yes		No 🗔	No VOA v		nittea	V		
	table upon receipt?		Yes		No L	N/A ✓					
pH adjusted? pH adjusted by:			Yes		No L	N/A <b>⊻</b>					
Login Notes:								•			
· ·											
		_ — — — — -				- — — —				- — — —	
		- — — — — -				- — — —				- — — —	
Client Contacted:		Date Contacted:			Person	Contacted:					
Contacted By:		Regarding:									
•											
Comments:											
CorrectiveAction:											
									CDC	Dogo 1	of 1

### CHAIN-OF-CUSTODY RECORD

21040568 Gilbane Federal

COC # KT040821



1655 Grant Street, Suite 1200, Concord, CA 94520

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	monotore, it such advantages in a many and a second and a	Event: Parcel E Phase 2 Air
Project Number: J310000400	POC:	Monitoring
VBS Code: J310000400-016	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242	

Con	nments:											Cod	e Matrix					
												A	Air					
												Code	Container/Preservative					
											+	1	1x 250-mL Plastic, 4 D					•
											$\perp$	1	1x Envelope, None					
Equipment:  Event: Parcel E Phase 2 Air Monitoring				 Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP											
	Event: Parcel E Phase 2 A	\ir Monitorin	g			1	1	1					No. 1971					
					Samp								f 100	Sample			Onalau	Comments
_	Sample ID	Matrix	Date	Time	Init.			_		$\rightarrow$	+		Location ID	Туре	_	3ottom	Cooler	VOLUME: 1632.25
	Q0424264-MSE01	A	04/07/2021	0745	KT	Х	Ш		Ш	$\rightarrow$	+		AMSE1	N1	0.00	0.00	<u> </u>	
2	9894264-MSE01	Α	04/07/2021	0745	KT		Х	Х					AMSE1	N1	0.00	0.00	1	VOLUME: 1679.89
3	Q0424265-MSE02	A	04/07/2021	0732	KT	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1646.81
4	9894263-MSE02	Α	04/07/2021	0732	KT		Х	Х					AMSE2	N1	0.00	0.00	1	VOLUME: 1681.51
5	Q0424266-MSE01	Α	04/08/2021	0800	КТ	Х							AMSE1	N1	0.00	0.00	1	VOLUME: 1639.06
6	9894265-MSE01	Α	04/08/2021	0800	КТ		Х	Х	П				AMSE1	N1	0.00	0.00	1	VOLUME: 1633.23
7	Q0424267-MSE02	A	04/08/2021	0735	KT	Х							AMSE2	N1	0.00	0.00	1	VOLUME: 1645.54
8	9894266-MSE02	A	04/08/2021	0735	KT		X	Х	П				AMSE2	N1	0.00	0.00	1	VOLUME: 1681.08
9																11		
_															1 7	11/2		

Date	Time	Received by: (Signature)	Date	Time	
4/8/21	1300	Fed (x	4/8/21	1300	S
11.		Stewas	4/9/21	1136	L
					F
					1
	Date	Date Time	4/8/21 130 Fed G	4/8/21 30 Fed & 4/8/21	4/8/21 1300 Fed G 4/8/21 1300

Shipping Date / Carrier / Airbill Number Shipping Date: 4/8/2021 / FedEx 7733 9042 7708

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

**DELIVERY METHOD:** US MAIL UPS DHL CLIENT DROP BOX COOLING METHOD: NODE COOLER WETICE ICE PACK CUSTODY SEALS: NONE



COOLER TEMP: °C IR#: 119059

COOLER CACKAGE SAMPLES

## **Laboratory Analysis Report**

Job ID: 21040786



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

......

Client Name: Gilbane Total Number of Pages: 4

Attn: Brett Womack P.O.#.: J31000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received: 04/12/2021 10:00

City, State, Zip: Concord, California, 94520 Sample Collected By: K. Tom

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

Report To:

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-040621	4/6/2021 16:52	Cassette	21040786.01
MSE02-040621	4/6/2021 16:56	Cassette	21040786.02
MSE01-040721	4/7/2021 14:52	Cassette	21040786.03
MSE02-040721	4/7/2021 14:50	Cassette	21040786.04

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

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

ab-q210-0321

4/15/2021

Page 1 of 4 Report Number: RPT210415062



#### ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 4/15/2021

Job ID: 21040786

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	lient: Gilbane Project: HPNS Parcel E Phase II J310000400												Attn: Brett Womack					
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			
21040786.01	MSE01-040621	04/06/2021	Area	2			548	1096	100	11.5	14.650	0.005		04/15/21	Habedi			
21040786.02	MSE02-040621	04/06/2021	Area	2			564	1128	100	12.0	15.287	0.005		04/15/21	Habedi			
21040786.03	MSE01-040721	04/07/2021	Area	2			422	844	100	10.0	12.739	0.006		04/15/21	Habedi			
21040786.04	MSE02-040721	04/07/2021	Area	2			432	864	100	8.5	10.828	0.005		04/15/21	Habedi			

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



# **Sample Condition Checklist**

A&B	B JobID : <b>21040786</b> Date Received : <b>04/12/2021</b> Time Received : <b>10</b>													
Clien	t Name : <b>Gilbane</b>	<u> </u>												
Temp	perature : 23.1°C	Sample pH:	N/A	1										
Ther	mometer ID : <b>102002320</b>	pH Paper ID :	N/A	<u> </u>										
Pers	ervative :													
		Chec	k Point	ts				Yes	No	N/A				
1.	Cooler seal present and signed.							Х						
2.	Sample(s) in a cooler.								Χ					
3.	If yes, ice in cooler.			Х										
4.	Sample(s) received with chain-of-co	Х												
5.	C-O-C signed and dated.	Х												
6.	Sample(s) received with signed sar		Χ											
7.	Sample containers arrived intact. (I	Х												
8.	Matrix Water Soil Liqu	Badge	Food	Oth	er									
0.				~						]				
9.	Sample(s) were received in appropr	iate container(s)	).					Х						
10.	Sample(s) were received with property	r preservative								Х				
11.	All samples were logged or labeled.							Х						
12.	Sample ID labels match C-O-C ID's							Х						
13.	Bottle count on C-O-C matches bott	les found.						Х						
14.	Sample volume is sufficient for anal	yses requested.						X						
15.	Samples were received within the h	old time.						X						
16.	VOA vials completely filled.									Х				
17.	Sample accepted.							X						
18	Has client been contacted about so	ıb-out								Х				
Comi	ments : Include actions taken to reso	lve discrepancie	s/prob	em:										
C/S or	n box. JM 4-12-21													

Received by : JMontemayor Check in by/date : JMontemayor / 04/12/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbar	10												Chain-Of	-Custo	ody				
Project Manager	Project Name and Number: HPNS Parcel E Phase II J310000400  Project Manager  Site Location: Hunters Point, San Francisco, CA 94124									Laboratory Name: A&B Labs  Address: 10100 East Fwy Ste. 100 Contact Name: Houston TX 77029  Analysis:									
				Sample Depth (top)	Sample Depth (bottom)	of Containers	atrix	Asbestos					* Job ID:2						
Sample ID		Date	Time	Sample D	Sample D	No. of Co	Sample Matrix	Nor	ainer T					Special Instruc	ctions/Con				
MSE01-040621	OM	4/06/2021	1652	NA	NA	1	AA	Х						548	()				
MSE02-040621	OZA	4/06/2021	1656	NA	NA	1	AA	Х						564					
MSE01-040721	03A	4/07/2021	1452	NA	NA	1	ĀĀ	Х						422					
MSE02-040721	044	4/07/2021	1450	NA	NA	1	I AA	Х						432					
													#						
Sampled By: K.	6n			_ [	Sample	-		M-						7733 9038 4046					
Signature:Special Instructions: _	Non	e			Relinqui				le K		Date:	13w	Received By/ Affiliation:	-t12	Date:	1300 (ban			
Send Results to:  Turnaround Time: St	andard												13.17	were					



21-Apr-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21040856

Dear Brett,

ALS Environmental received 12 samples on 14-Apr-2021 11:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

## R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



**Client:** Gilbane Company

**Project:** HPNS Parcel E; J310000400-016

Work Order: 21040856

# **Work Order Sample Summary**

Lab Samp ID Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	Hold
21040856-01 Q0424268-MSE01	Air		4/9/2021 08:13	4/14/2021 11:45	
21040856-02 9894267-MSE01	Air		4/9/2021 08:13	4/14/2021 11:45	
21040856-03 Q0424269-MSE02	Air		4/9/2021 08:03	4/14/2021 11:45	
21040856-04 9894268-MSE02	Air		4/9/2021 08:03	4/14/2021 11:45	
21040856-05 Q0424270-MSE01	Air		4/9/2021 13:18	4/14/2021 11:45	
21040856-06 9894269-MSE01	Air		4/9/2021 13:18	4/14/2021 11:45	
21040856-07 Q0424271-MSE02	Air		4/9/2021 13:30	4/14/2021 11:45	
21040856-08 9894270-MSE02	Air		4/9/2021 13:30	4/14/2021 11:45	
21040856-09 Q0424272-MSE01	Air		4/13/2021 07:55	4/14/2021 11:45	
21040856-10 9894271-MSE01	Air		4/13/2021 07:55	4/14/2021 11:45	
21040856-11 Q0424273-MSE02	Air		4/13/2021 07:41	4/14/2021 11:45	
21040856-12 9894272-MSE02	Air		4/13/2021 07:41	4/14/2021 11:45	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21040856

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21040856

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040856-01A **Collection Date:** 4/9/2021 8:13:00 AM

Client Sample ID: Q0424268-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1640700	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	47	1.0	0.029	

**Lab ID:** 21040856-02A **Collection Date:** 4/9/2021 8:13:00 AM

Client Sample ID: 9894267-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1640600</b>	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	38	1.0	0.023	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1640600</b>	Analyst: AZ
Date Analyzed: 4/21/2021 14:46		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	140	25	0.000088	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.00015	

**Lab ID:** 21040856-03A **Collection Date:** 4/9/2021 8:03:00 AM

Client Sample ID: Q0424269-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1672960	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	42	1.0	0.025	

Client: Gilbane Company Work Order: 21040856

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040856-04A **Collection Date:** 4/9/2021 8:03:00 AM

Client Sample ID: 9894268-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1701410</b>	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	37	1.0	0.022	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1701410	Analyst: AZ
Date Analyzed: 4/21/2021 14:58		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	130	25	0.000074	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040856-05A **Collection Date:** 4/9/2021 1:18:00 PM

Client Sample ID: Q0424270-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): <b>340990</b>	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	20	1.0	0.060	

**Lab ID:** 21040856-06A Collection Date: 4/9/2021 1:18:00 PM

Client Sample ID: 9894269-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 343780	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	1.4	1.0	0.0041	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>343780</b>	Analyst: AZ
Date Analyzed: 4/21/2021 15:02		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	ND	25	<0.00073	
Lead	ND	25	<0.00073	
Manganese	ND	25	<0.00073	

Client: Gilbane Company Work Order: 21040856

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040856-07A **Collection Date:** 4/9/2021 1:30:00 PM

Client Sample ID: Q0424271-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): <b>368450</b>	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	9.0	1.0	0.024	

**Lab ID:** 21040856-08A **Collection Date:** 4/9/2021 1:30:00 PM

Client Sample ID: 9894270-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 380480	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	ND	1.0	<0.0026	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 380480	Analyst: AZ
Date Analyzed: 4/21/2021 15:05		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	ND	25	<0.00066	
Lead	ND	25	<0.00066	
Manganese	ND	25	<0.00066	

**Lab ID:** 21040856-09A **Collection Date:** 4/13/2021 7:55:00 AM

Client Sample ID: Q0424272-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1679520	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	73	1.0	0.044	

Client: Gilbane Company Work Order: 21040856

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21040856-10A **Collection Date:** 4/13/2021 7:55:00 AM

Client Sample ID: 9894271-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1680540</b>	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	86	1.0	0.051	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1680540	Analyst: AZ
Date Analyzed: 4/21/2021 15:17		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	290	25	0.00017	
Lead	ND	25	<0.000015	
Manganese	33	25	0.000019	

**Lab ID:** 21040856-11A **Collection Date:** 4/13/2021 7:41:00 AM

Client Sample ID: Q0424273-MSE02 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1624130	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	93	1.0	0.057	

**Lab ID:** 21040856-12A **Collection Date:** 4/13/2021 7:41:00 AM

Client Sample ID: 9894272-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1557440	Analyst: SRL
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	73	1.0	0.047	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1557440</b>	Analyst: AZ
Date Analyzed: 4/21/2021 15:21		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	110	25	0.000074	
Lead	ND	25	<0.000016	
Manganese	26	25	0.000017	

**Client:** Gilbane Company

**Work Order:** 21040856

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R190	988 Instrument ID:	BAL2		Metho	d: TSP						
DUP	Sample ID: 210408	56-02A DUP				Units: mg	/sample	Ana	lysis Date: 4/2	1/2021	
Client ID: 9894	267-MSE01	Run ID	: BAL2_2	210421A		SeqNo: <b>24</b> 4	16223	Prep Date:	Prep Date: DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended	d particulate	37.07	1.0	0		0 0		37	'.99 2.45	5 20	
Total suspended	d particulate	37.07	1.0	0		0 0		37	7.99 2.45	:	20

The following samples were analyzed in this batch:

21040856-02A 21040856-04A 21040856-06A 21040856-08A 21040856-12A

QC BATCH REPORT

QC BATCH REPORT

**Client:** Gilbane Company

**Work Order:** 21040856

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R190989	Instrument ID: BAL2	Method: PM10
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DUP Sample ID: 21	040856-11A DUP			U	Jnits: <b>mg/s</b>	sample	Analys	Analysis Date: 4/21/2021			
Client ID: <b>Q0424273-MSE02</b>	Run ID:	BAL2_2	210421B		Sec	qNo: <b>2446</b>	3235	Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	92.77	1.0	0		0	0		92.76	0.0108	20	

The following samples were analyzed in this batch:

21040856-01A 21040856-03A 21040856-05A 21040856-07A 21040856-09A 21040856-11A

Client: Gilbane Company
Work Order: 21040856

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>74013</b>	Instrument ID: ICP	3		Method	d: <b>E12</b>							
MBLK	Sample ID: MBLK-7401	3-74013				ı	Units: µg/s	ample	Analysis	Date: 4/21	1/2021 02:	35 PM
Client ID:		Run ID	: ICP3_2	210421B		SeqNo: <b>2446630</b>			Prep Date: 4/21	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		ND	100									
Lead		ND	25									
Manganese		ND	100									
LCS	Sample ID: LCS-74013-	74013				ı	Units: µg/s	ample	Analysis	Date: 4/21	1/2021 02:	39 PM
Client ID:		Run ID	: ICP3_2	210421B		Se	eqNo: <b>2446</b>	6631	Prep Date: 4/21	/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		361.5	100	450		0	80.3	75-125	0			
Lead		395.3	25	450		0	87.8	75-125	0			
Manganese		365.6	100	450		0	81.2	75-125	0			
LCSD	Sample ID: LCSD-7401;	3-74013				ı	Units: µg/s	ample	Analysis	Date: 4/21	1/2021 02:	43 PM
Client ID:		Run ID	: ICP3_2	210421B		Se	eqNo: <b>2446</b>	6632	Prep Date: 4/21	/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		380.7	100	450		0	84.6	75-125	361.5	5.17	20	
Lead		402.8	25	450		0	89.5	75-125	395.3	1.86	20	
Manganese		382.8	100	450		0	85.1	75-125	365.6	4.61	20	
VIS	Sample ID: 21040856-02	2A MS				ı	Units: µg/s	ample	Analysis	Date: 4/21	1/2021 02:	50 PM
Client ID: 9894267-	MSE01	Run ID	: ICP3_2	210421B		Se	eqNo: <b>2446</b>	6634	Prep Date: 4/21	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		516.2	100	450	143	8.8	82.7	75-125	0			
_ead		406.8	25	450	11.7	72	87.8	75-125	0			
Manganese		398.1	100	450	15.	18	85.1	75-125	0			
MSD	Sample ID: <b>21040856-0</b> 2	2A MSD				ı	Units: µg/s	ample	Analysis	Date: 4/21	1/2021 02:	54 PM
Client ID: 9894267-	MSE01	Run ID	: ICP3_2	210421B		Se	eqNo: <b>244</b> (	6635	Prep Date: 4/21	/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
·		496.4	100	450	4.40	ρ		75 10F	516.2		20	
Copper Lead		397.5	25	450 450	143		78.3 85.7	75-125 75-125	406.8	3.91 2.29	20	
Manganese		368.9	100	450	15.		78.6	75-125	398.1	7.6		
	oles were analyzed in this	batch:		1040856-02A 1040856-08A	. 21	040	0856-04A 0856-10A	21	040856-06A 040856-12A			

Gilbane Company **Client: QUALIFIERS**,

**Project:** HPNS Parcel E; J310000400-016 ACRONYMS, UNITS

WorkOrder: 21040856

> μg/sample mg/sample

Qualifier	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
<b>Units Reported</b>	<b>Description</b>

QF Page 1 of 1

# ALS Environmental

### Sample Receipt Checklist

Client Name: G	GILBANE-WALNUTCREEK				Date/Time	Received:	<u>14-A</u>	\pr-21 ^	<u>11:45</u>	
Work Order: 2	<u>21040856</u>				Received b	y:	SNI	<u>H</u>		
Checklist complete	ed by: Stephanie H arring  ———————————————————————————————————	ton 14	I-Apr-21	_	Reviewed by:	R 0b N	ieman			16-Apr-21
Matrices: Carrier name:	FedEx	l				Ü				
Shipping containe	r/cooler in good condition?		Yes	<b>V</b>	No 🗌	Not Pr	esent			
Custody seals inta	act on shipping container/cooler?	,	Yes	<b>✓</b>	No 🗌	Not Pr	esent			
Custody seals inta	act on sample bottles?		Yes		No 🗌	Not Pr	esent	<b>✓</b>		
Chain of custody p	present?		Yes	<b>✓</b>	No 🗌					
Chain of custody	signed when relinquished and red	ceived?	Yes	<b>✓</b>	No 🗌					
Chain of custody a	agrees with sample labels?		Yes	<b>✓</b>	No 🗌					
Samples in proper	r container/bottle?		Yes	<b>V</b>	No 🗌					
Sample containers	s intact?		Yes	<b>V</b>	No 🗌					
Sufficient sample	volume for indicated test?		Yes	<b>~</b>	No 🗌					
All samples receiv	ved within holding time?		Yes	<b>~</b>	No 🗌					
Container/Temp B	Blank temperature in compliance?	?	Yes	<b>~</b>	No 🗌					
Sample(s) receive Temperature(s)/Th			Yes		No 🗹					
Cooler(s)/Kit(s):										
•	e(s) sent to storage:		Vaa		NIa	Na VOA	-11		<b>V</b>	
	s have zero headspace?		Yes		No 🗆	No VOA vi		iittea	V	
	table upon receipt?		Yes		No L	N/A ✓				
pH adjusted? pH adjusted by:			Yes		No L	N/A <b>⊻</b>	J			
Login Notes:								•		
-										
									- — — —	
		_ — — — — — -		_ —						
Client Contacted:		Date Contacted:			Person	Contacted:				
Contacted By:		Regarding:								
_,·		- g ·g·								
Comments:										
CorrectiveAction:										
									CDC I	Dogg 1 of 1

### **CHAIN-OF-CUSTODY** RECORD





Dra	ject Name: Hunters Point :	2hlovavd	Darnal E DA D	hana 2		Lah	oral	Minzi	AI C	Lahe	ratan	u Grou	in f	^inai	nnati, OH					Event: E	Parcel E Phase 2 Air
_	lect Number: J310000400	ornipy ett as	r di voi E i i A r i	rictor a		PO		tory.	71.0	Lauro	al alloi	y arou	ąv, s	VIIIQI	mau, on			-		Monitori	
	S Code: J310000400-016					-	_=	: 438	i8 Gle	andal	a Mili	ford R	d., E	Blue	Ash, OH 452	42			_		
						1										1 1 1111					
Cor	nments:											1				atrix					
												1 1			A Air	7					
															Code Conta	Iner/Preservat	ive				
															1 1x 25	0-mL Plastic,	4 Degrees C				
															1 1x En	velope, None					
					<u>p</u>																
_	1				<b>=</b>	0	C														
Equ	ilpment:				est	₽	¥	S													
						Air	윤	Air.													
						血	Air	ģ				1.1									
					Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn	N0500 - Air TSP													
	Event: Parcel E Phase 2 Ai	r Monitorii	ng			1	1	1		$\dagger$											
					Samp					$\top$			$\neg$				Sample	Depth	(ft bgs)		
	Sample ID	Matrix	Date	Time	Init.										Local	tion ID	Туре	Top -	Bottom	Cooler	Comments
1	Q0424268-MSE01	A	04/09/2021	0813	KT	Х									AM	SE1	N1	0.00	0.00	1	VOLUME: 1640.70
2	9894267-MSE01	A	04/09/2021	0813	KT		X	Х							AM	SE1	N1	0.00	0.00	1	VOLUME: 1640.60
3	Q0424269-MSE02	Α	04/09/2021	0803	KT	Х									AM	SE2	N1	0.00	0.00	1	VOLUME: 1672.96
4	9894268-MSE02	Α	04/09/2021	0803	KT		Х	Х					T		AM	SE2	N1	0.00	0.00	1	VOLUME: 1701,41
5	Q0424270-MSE01	A	04/09/2021	1318	KT	Х					T	П			AM	SE1	N1	0.00	-0.00	1	VOLUME: 340.99
6	9894269-MSE01	Α	04/09/2021	1318	KT		Х	Х							AM	SE1	N1	0.00	0.00	1	VOLUME: 343.78
7	Q0424271-MSE02	Α	04/09/2021	1330	KT	Х				$\top$	Т	П	T		AM	SE2	N1	0.00	0.00	1	VOLUME: 368.45
8	9894270-MSE02	Α	04/09/2021	1330	KT		Х	Х							AM	SE2	N1	0.00	0.00	1	VOLUME: 380.48
9	Q0424272-MSE01	Α	04/13/2021	0755	КТ	Х									AM	SE1	N1	0.00	0.00	1	VOLUME: 1679.52
10	9894271-MSE01	A	04/13/2021	0755	KT		Х	Х					$\exists$		AM	SE1	N1	0.00	0.00	1	VOLUME: 1680.54
11	Q0424273-MSE02	A	04/13/2021	0741	КТ	Х									AM	SE2	N1	0.00	0.00	1	VOLUME: 1624.13
Rel	inquished by: (Signature)	T	Date	Time	Receive	d by:	(8)	dna	ture)	_			Т		Date	Time	Shipping D	ate / Ca	rrier / A	Irbill Nu	mber
	A2_		1.31	140		1 .							$\exists$		1						734 2953 1453
-			4/13/21	1400		16	X					-	$\dashv$		13/21	1400	T -1	0.1	<i>p</i> .	10.4	. J C en l
						7	<		1			4	11	1-	21	1145					ody Seal
						(	)										Heceived b	y Laboi	ratory: (	Signature	e, Date, Time) & condition
						-	1						_				JI				

### **CHAIN-OF-CUSTODY RECORD**

Gilbane Federal



COC# KT041321



Pro	oject Name: Hunters Point Shipyard, Parcel E RA Phase 2						Laboratory: ALS Laboratory Group, Cincinnati, OH												Event: Parcel E Phase 2 Air		
Pro	ect Number: J31000040	00				PO	C:								(41) 11				Monitorin	ng	
WB	S Code: J310000400-01	6				Shi	p to	: 438	88 GI	endal	e Milito	rd Rd.	, Blue	Ash, Ol-	45242						
Con	nments:				1	П	Г		П	Т	П	Т	Т	Code	Matrix				Т		
														A	Air						
														Code	Container/Preservati	ve					
														1	1x 250-mL Plastic, 4	Degrees C					
														1	1x Envelope, None						
					Analytical Test Method														1		
Emi	In manage.				- <u>a</u>	₽	궁	_													
Equ	Ipment:				Est	₹	- Air Pb Mn Cu	15													
					8	₹	표	₹													
					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CAAIR - Air PM10	\ \ .	N0500 - Air TSP											1		
	11				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8	E12.	ğ			Ш										
	Event: Parcel E Phase 2	Air Monitorin	g			1	1	1						3							
					Samp											Sample	-	(ft bgs)			
	Sample ID	Matrix	Date	Time	Init.	-				+	$\perp$	_	-		_ocation ID	Туре		Bottom	Cooler	Comments	
	9894272-MSE02	A	04/13/2021	0741	KT		Х	Х		4	$\perp$		+		AMSE2	N1	0.00	0.00	1	VOLUME: 1557.44	
13						┡	_		Щ	4	$\perp$		$\perp$						-		
14						$\perp$		_	Ш	_	$\perp$	_	$\perp$								
15										4	$\perp$										
16										-				4							
17									Ш					V							
18									Ш												
19																					
20																					
Tur	naround Time: 5 days									77147											

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
1	4/13/21	140	EdGx	4/13/21	ayı	Shipping Date: 4/13/2021 / FedEx 7734 2953 1453
			1	1-14-71	1145	
				17-01	11-19	Received by Laboratory: (Signature, Date, Time) & condition



26-Apr-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21041053

Dear Brett,

ALS Environmental received 8 samples on 16-Apr-2021 10:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

## R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



**Client:** Gilbane Company

**Project:** HPNS Parcel E; J310000400-016

Work Order: 21041053

Lab Samp ID	Client Sample ID	<b>Matrix</b>	Tag Number	<b>Collection Date</b>	<b>Date Received</b>	<u>Hold</u>
21041053-01	Q0424274-MSE01	Air		4/14/2021 08:15	4/15/2021 13:00	
21041053-02	9894273-MSE01	Air		4/14/2021 08:15	4/15/2021 13:00	
21041053-03	Q0424275-MSE02	Air		4/14/2021 07:53	4/15/2021 13:00	
21041053-04	9894274-MSE02	Air		4/14/2021 07:53	4/15/2021 13:00	
21041053-05	Q0424276-MSE01	Air		4/15/2021 07:55	4/15/2021 13:00	
21041053-06	9894276-MSE01	Air		4/15/2021 07:55	4/15/2021 13:00	
21041053-07	Q0424277-MSE02	Air		4/15/2021 07:41	4/15/2021 13:00	
21041053-08	9894275-MSE02	Air		4/15/2021 07:41	4/15/2021 13:00	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21041053

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21041053

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041053-01A **Collection Date:** 4/14/2021 8:15:00 AM

Client Sample ID: Q0424274-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1774850 Analyst: SRL

Date Analyzed: 4/23/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 80 1.0 0.045

**Lab ID:** 21041053-02A **Collection Date:** 4/14/2021 8:15:00 AM

Client Sample ID: 9894273-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1778030	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	96	1.0	0.054	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1778030</b>	Analyst: SRL
Date Analyzed: 4/26/2021 13:38		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	300	25	0.00017	
Lead	ND	25	<0.000014	
Manganese	28	25	0.000016	

**Lab ID:** 21041053-03A **Collection Date:** 4/14/2021 7:53:00 AM

Client Sample ID: Q0424275-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1760310	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	120	1.0	0.069	

Client: Gilbane Company Work Order: 21041053

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041053-04A **Collection Date:** 4/14/2021 7:53:00 AM

Client Sample ID: 9894274-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1688020</b>	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	94	1.0	0.056	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1688020	Analyst: SRL
Date Analyzed: 4/26/2021 13:58		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	270	25	0.00016	
Lead	ND	25	<0.000015	
Manganese	36	25	0.000021	

**Lab ID:** 21041053-05A **Collection Date:** 4/15/2021 7:55:00 AM

Client Sample ID: Q0424276-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1731560	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	74	1.0	0.043	

**Lab ID:** 21041053-06A **Collection Date:** 4/15/2021 7:55:00 AM

Client Sample ID: 9894276-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1729110	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	66	1.0	0.038	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1729110	Analyst: SRL
Date Analyzed: 4/26/2021 14:02		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	240	25	0.00014	
Lead	ND	25	<0.000014	
Manganese	ND	25	<0.000014	

Client: Gilbane Company Work Order: 21041053

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041053-07A **Collection Date:** 4/15/2021 7:41:00 AM

Client Sample ID: Q0424277-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1723680 Analyst: SRL

Date Analyzed: 4/23/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 74 1.0 0.043

**Lab ID:** 21041053-08A **Collection Date:** 4/15/2021 7:41:00 AM

Client Sample ID: 9894275-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1662290	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	89	1.0	0.053	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1662290</b>	Analyst: SRL
Date Analyzed: 4/26/2021 14:05		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	270	25	0.00016	
Lead	ND	25	<0.000015	
Manganese	47	25	0.000028	

**Client:** Gilbane Company

**Work Order:** 21041053

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R191090 Instrument ID: BAL2 Method: TSP

DUP	Sample ID: 2104		L	Jnits: <b>mg/s</b>	sample	Analys	is Date: <b>4/2</b> 3	3/2021				
Client ID: 9894273-M	ient ID: 9894273-MSE01 Run ID: BAL2_210423A						qNo: <b>2448</b>	3497	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended partic	culate	98.62	1.0	0		0	0		96.3	2 2.36	20	

The following samples were analyzed in this batch:

21041053-02A 21041053-04A 21041053-06A 21041053-08A

QC BATCH REPORT

QC BATCH REPORT

**Client:** Gilbane Company

**Work Order:** 21041053

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R191091	Instrument ID: BAL	Instrument ID: BAL2 Method:										
DUP	Sample ID: 21041278-07	7A DUP				Ų	Jnits: <b>mg/</b> s	sample	Analys	is Date: <b>4/2</b> :	3/2021	
Client ID:		Run ID	: BAL2_2	210423B		Se	eqNo: <b>2448</b>	3513	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10		43.42	1.0	0		0	0		43.1	9 0.531	20	
The following sample	es were analyzed in this b	oatch:	2	1041053-01A	2	1041	1053-03A	21	041053-05A			

21041053-07A

**Client:** Gilbane Company

**Work Order:** 21041053

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>74084</b>	Instrument ID: ICI	23		Method	d: <b>E12</b>							
MBLK	Sample ID: MBLK-740	84-74084				ı	Units: µg/s	ample	Analysi	s Date: <b>4/2</b> 0	6/2021 01:	27 PM
Client ID:		Run ID	: ICP3_2	210426A		Se	eqNo: <b>244</b>	9794	Prep Date: 4/2:	3/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		ND	100									
Lead		ND	25									
Manganese		ND	100									
LCS	Sample ID: LCS-74084	-74084				,	Units: µg/s	ample	Analysi	s Date: <b>4/2</b> (	6/2021 01:	31 PM
Client ID:		Run ID	: ICP3_2	210426A		Se	eqNo: <b>244</b> 9	9795	Prep Date: 4/2	3/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
·		392.1				_		75 105				
Copper Lead		410.3	100	450 450		0	91.2	75-125 75-125	0			
Manganese		393.1	100	450 450		0	87.4	75-125 75-125	0			
LCSD	Sample ID: LCSD-740	84-74084					Units: µg/s	ample	Analysi	s Date: <b>4/2</b> 0	S/2021 01:	25 DM
Client ID:	Campio IB. <b>ECOD-7400</b>		: ICP3 2	210426A			eqNo: <b>244</b> 9	-	Prep Date: 4/2:		DF: 1	JJ 1 1VI
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
·		418.1	100	450		0	92.9	75-125	392.1		20	
Copper Lead		440.4	25	450		0	97.9	75-125	410.3			
Manganese		416.5	100	450		0	92.6	75-125	393.1			
MS	Sample ID: <b>21041053-</b> 6	D2A MS				-	Units: µg/s	sample	Analysi	s Date: <b>4/2</b> 0	6/2021 01:	50 PM
Client ID: <b>9894273</b>			ICP3_2	210426A			eqNo: <b>244</b>	-	Prep Date: 4/2:		DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		699.3	100	450	302	2.2	88.2	75-125	0	)		
Lead		432	25	450	17.	29	92.2	75-125	0	1		
Manganese		422.8	100	450	28.	34	87.7	75-125	0	<u> </u>		
MSD	Sample ID: 21041053-	D2A MSD				ı	Units: µg/s	ample	Analysi	s Date: <b>4/2</b> 0	6/2021 01:	54 PM
Client ID: 9894273	-MSE01	Run ID	ICP3_2	210426A		Se	eqNo: <b>244</b> 9	9799	Prep Date: 4/2	3/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		707.8	100	450	302	2.2	90.1	75-125	699.3	1.22	20	
Lead		446.5	25	450	17.		95.4	75-125	432			
Manganese		433.8	100	450	28.	34	90.1	75-125	422.8	2.56	20	
The following sam	ples were analyzed in this	batch:		1041053-02 <i>F</i> 1041053-08 <i>F</i>		1041	1053-04A	21	041053-06A			

**Client:** Gilbane Company

**QUALIFIERS, Project:** HPNS Parcel E; J310000400-016 **ACRONYMS, UNITS** 

WorkOrder: 21041053

> μg/sample mg/sample

Qualifier **Description** Value exceeds Regulatory Limit Not accredited a В Analyte detected in the associated Method Blank above the Reporting Limit Е Value above quantitation range Н Analyzed outside of Holding Time Analyte detected below quantitation limit Not offered for accreditation n ND Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked O P Dual Column results percent difference > 40% R RPD above laboratory control limit S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL **Acronym** Description DUP Method Duplicate Е EPA Method LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MBLK Method Blank MDL Method Detection Limit MQL Method Quantitation Limit MS Matrix Spike MSD Matrix Spike Duplicate PDS Post Digestion Spike PQL Practical Quantitaion Limit SDL Sample Detection Limit SW SW-846 Method **Units Reported** Description

QF Page 1 of 1

## ALS Environmental

#### Sample Receipt Checklist

Client Name:	GILBANE-WALNUTCREEK			Date/Time	Received:	16-Apr-2	<u>1 10:20</u>	
Work Order:	21041053			Received b	y:	<u>SNH</u>		
Checklist complet	ted by: Stephanie H arring  eSignature	ton 17	'-Apr-21 Date	Reviewed by:	R ob Nie	man		20-Apr-21
Matrices: Carrier name:	<u>FedEx</u>	l	Dulo		oolgrada			Date
Shipping containe	er/cooler in good condition?		Yes 🗸	No 🗌	Not Pres	sent 🗌		
Custody seals into	act on shipping container/cooler?		Yes 🗸	No 🗌	Not Pres	sent 🗌		
Custody seals into	act on sample bottles?		Yes	No 🗌	Not Pres	sent 🗸		
Chain of custody	present?		Yes 🗸	No 🗌				
Chain of custody	signed when relinquished and red	ceived?	Yes 🗸	No 🗌				
Chain of custody	agrees with sample labels?		Yes 🗸	No 🗌				
Samples in prope	er container/bottle?		Yes 🗹	No 🗆				
Sample container	rs intact?		Yes 🔽	No 🗆				
Sufficient sample	volume for indicated test?		Yes 🗸	No 🗆				
All samples receiv	ved within holding time?		Yes 🗸	No 🗌				
Container/Temp B	Blank temperature in compliance?	?	Yes 🗸	No 🗌				
Sample(s) receive Temperature(s)/T			Yes _	No 🗸				
Cooler(s)/Kit(s):								
•	e(s) sent to storage:					1 20 1		
	s have zero headspace?		Yes _	l No □	No VOA vial	s submitted	<b>~</b>	
	otable upon receipt?		Yes _	l No □	N/A 🗸			
pH adjusted? pH adjusted by:			Yes	No L	N/A 🗸			
Login Notes:								
				_	•			
Client Contacted:		Date Contacted:		Persor	Contacted:			
Contacted By:		Regarding:						
Comments:								
CorrectiveAction:							ene r	logo 1 of 1

#### **CHAIN-OF-CUSTODY** RECORD

Gilbane Federal

1655 Grant Street, Suite 1200, Concord, CA 94520

COC # KT041521



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2						Lab	orat	tory:	ALS I	Labor	ratory	Group	Cincli	nnati, OF	1					Event: Parcel E Phase 2 Air		
Proj	ect Number: J310000400					PO	C:													Monitorir	ng	
WB:	S Code: J310000400-016					Shì	p to:	: 438	88 Gle	ndale	Milfo	rd Rd.,	Blue	Ash, OH	452	242						
Con	nments:				al Test Method	Air PM10	Air Pb Mn Cu	Air TSP						1	Air Conta 1x 250							
					Analytical Test	CAAIR	E12-	N050(														
	Event: Parcel E Phase 2 Air	Monitorir T	ng T		_	1	1	1		-	+	-					Sample	Depth	(ft has)			
	Sample ID	Matrix	Date	Time	Samp Init.									ł	ocai	tion ID	Туре		Bottom	Cooler	Comments	
1	Q0424274-MSE01	A	04/14/2021	0815	KT	X				+	+	+	+			ASE1	N1	0.00	0.00	1	VOLUME: 1774.85	
_	9894273-MSE01	A	04/14/2021	0815	KT	Ť	Х	X		+	$\top$	-	$\Box$		AM	/SE1	N1	0.00	0.00	1	VOLUME: 1778.03	
3	Q0424275-MSE02	A	04/14/2021	0753	КТ	х			$\vdash$	+	$\top$	$\top$	$\Box$		AM	ISE2	N1	0.00	0.00	1	VOLUME: 1760.31	
_	9894274-MSE02	A	04/14/2021	0753	КТ	$\vdash$	Х	x	$\vdash$	$\top$	$\top$		$\forall$		AM	/ISE2	N1	0.00	0.00	1	VOLUME: 1688.02	
5	Q0424276-MSE01	A	04/15/2021	0755	КТ	х	$\vdash$	T	$\vdash$	$\top$	$\top$		$\Box$		AM	/ISE1	N1	0.00	0.00	1	VOLUME: 1731.56	
6	9894276-MSE01	A	04/15/2021	0755	KT		X	X	$\Box$	$\top$	$\top$	$\neg$	$\top$		AM	/ISE1	N1	0.00	0.00	1	VOLUME: 1729.11	
7	Q0424277-MSE02	A	04/15/2021	0741	КТ	X	$\vdash$	T	$\Box$	$\top$	$\top$		$\Box$		AM	/ISE2	N1	0.00	0.00	1	VOLUME: 1723.68	
8	9894275-MSE02	A	04/15/2021	0741	KT		х	x			1		$\Box$		AM	/SE2	N1	0.00	0.00	1	VOLUME: 1662.29	
9		1				П				T												
10													$\Box$				-	-				
Tur	naround Time: 5 days																					
Rel	inquished by: (Signature)		Date	Time	Receive	d by	: (S	ians	ture)					Date		Time	Shipping	Date / C	Carrier /	Airbii N	umber	
	V			1 1	_	15							4	I.ml		1300	Shipping D	ate: 4/15	5/2021 /	FedEx 77	34 5604 3321	
7		_	4/15/21	1310	14	16	_			_			1 -0	112/5	{	1704						
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#### **Laboratory Analysis Report**

Job ID: 21041069



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:Brett WomackP.O.#.:J310000400-0015Client Address:1655 Grant Street, Suite 1200Date Received:04/14/2021 17:15City, State, Zip:Concord, California, 94520Sample Collected By:Kimberly Tom

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-040821	4/8/2021 15:42	Cassette	21041069.01
MSE02-040821	4/8/2021 15:41	Cassette	21041069.02
MSE01-040921	4/9/2021 15:20	Cassette	21041069.03
MSE02-040921	4/9/2021 15:30	Cassette	21041069.04
MSE01-041221	4/12/2021 15:30	Cassette	21041069.05
MSE02-041221	4/12/2021 15:20	Cassette	21041069.06

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:  $V \circ C$ 

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

ab-q210-0321

4/21/2021

Page 1 of 4 Report Number: RPT210421056

# Q.b

# ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 4/21/2021

Job ID: 21041069

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPI	NS Parcel E	Phase II .	31000040	00		Attn: Brett Womack								
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		
21041069.01	MSE01-040821	04/08/2021	Area	2			482	964	100	9.5	12.102	0.005		04/20/21	Habedi		
21041069.02	MSE02-040821	04/08/2021	Area	2			461	922	100	10.5	13.376	0.006		04/20/21	Habedi		
21041069.03	MSE01-040921	04/09/2021	Area	2			423	846	100	7	8.917	0.004		04/20/21	Habedi		
21041069.04	MSE02-040921	04/09/2021	Area	2			443	886	100	9	11.465	0.005		04/20/21	Habedi		
21041069.05	MSE01-041221	04/12/2021	Area	2			402	804	100	12.5	15.924	0.008		04/20/21	Habedi		
21041069.06	MSE02-041221	04/12/2021	Area	2			358	716	100	7.5	9.554	0.005		04/20/21	Habedi		

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



# **Sample Condition Checklist**

A&B	A&B JobID :         21041069         Date Received :         04/14/2021         Time Received :         5:15PM												
Clien	lient Name : Gilbane												
Tem	perature : 21.8°C	Sample pH:	N/A										
Ther	mometer ID : <b>102002320</b>	pH Paper ID :	N/A	ı									
Pers	ervative :												
		Chec	k Point	cs				Yes	No	N/A			
1.	Cooler seal present and signed.								Х				
2.	10 F-107												
3.	If yes, ice in cooler.												
4.	Sample(s) received with chain-of-custody.												
5.	C-O-C signed and dated.												
6.													
7.													
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge F												
<u> </u>	·			✓				$\Box$		]			
9.	Sample(s) were received in appropr	iate container(s)	).					Х					
10.	Sample(s) were received with propo	r preservative								Х			
11.	All samples were logged or labeled.							Х					
12.	Sample ID labels match C-O-C ID's							Х					
13.	Bottle count on C-O-C matches bott	les found.						Х					
14.	Sample volume is sufficient for anal	yses requested.						Х					
15.	Samples were received within the h	old time.						Х					
16.	VOA vials completely filled.									Х			
17.	Sample accepted.							Х					
18	Has client been contacted about se	ıb-out								Х			
Com	ments : Include actions taken to reso	lve discrepancie	s/probl	em:									

Received by : JMontemayor Check in by/date : JMontemayor / 04/14/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Cilbar	ie													Chain-Of-	Custo	ody	
Project Name and Num Project Manager Site Location: Hunt	mber:	HPNS Parcel E  San Francisco			00		_abora Addres	-	0100 I Iousto	East Fy	3 Labs wy Ste. 77029	100	Contact N	lame:	Date: _4/13 Page:_1	3/2021 _of _1_	_
Sample ID  MSE01-040821	OVA	Date (4/08/2021	Jime 1542	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Non	iner Ty					* Job ID:2	ALCOHOLOGIC CONTRACTOR SPECIAL CONTRACTOR CO	= 2 L/min	
MSE02-040821 MSE01-040921 MSE02-040921 MSE01-041221 MSE02-041221	03A 04A 05A 06A	4/08/2021 4/09/2021 4/09/2021 4/12/2021 4/12/2021	1541 1520 1530 1530 1520	NA NA NA NA	NA NA NA NA	1 1 1 1 1	AA AA AA AA AA	X X X X			25				461   423   443   402   358		
Send Results to:	0			_ [	Sample	shed B	y/Affilia	ilba	)	Tom		Date:	Time:	Courier/Airbill No.: FedEx/ 7 Received By/ Affiliation:  Red Ex  Amanda Obae	733 9038 4046	Date: Y B U	



28-Apr-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21041278

Dear Brett,

ALS Environmental received 8 samples on 21-Apr-2021 02:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

### R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Work Order Sample Summary

Work Order: 21041278

Lab Samp ID	Client Sample ID	<b>Matrix</b>	Tag Number	<b>Collection Date</b>	<b>Date Received</b>	<u>Hold</u>
21041278-01	Q0424278-MSE01	Air		4/15/2021 15:22	4/20/2021 14:00	
21041278-02	9894277-MSE01	Air		4/15/2021 15:22	4/20/2021 14:00	
21041278-03	Q0424279-MSE02	Air		4/15/2021 15:30	4/20/2021 14:00	
21041278-04	9894278-MSE02	Air		4/15/2021 15:30	4/20/2021 14:00	
21041278-05	Q0424280-MSE01	Air		4/20/2021 07:56	4/20/2021 14:00	
21041278-06	9894279-MSE01	Air		4/20/2021 07:56	4/20/2021 14:00	
21041278-07	Q0424281-MSE02	Air		4/20/2021 07:46	4/20/2021 14:00	
21041278-08	9894280-MSE02	Air		4/20/2021 07:46	4/20/2021 14:00	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21041278

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21041278

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041278-01A **Collection Date:** 4/15/2021 3:22:00 PM

Client Sample ID: Q0424278-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): <b>535050</b>	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	25	1.0	0.047	

**Lab ID:** 21041278-02A **Collection Date:** 4/15/2021 3:22:00 PM

Client Sample ID: 9894277-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>534170</b>	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	24	1.0	0.045	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>534170</b>	Analyst: SRL
Date Analyzed: 4/26/2021 14:09		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	57	25	0.00011	
Lead	ND	25	<0.00047	
Manganese	ND	25	<0.00047	

**Lab ID:** 21041278-03A **Collection Date:** 4/15/2021 3:30:00 PM

Client Sample ID: Q0424279-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): <b>558420</b>	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	26	1.0	0.047	

Client: Gilbane Company Work Order: 21041278

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041278-04A **Collection Date:** 4/15/2021 3:30:00 PM

Client Sample ID: 9894278-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>541730</b>	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	18	1.0	0.034	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>541730</b>	Analyst: SRL
Date Analyzed: 4/26/2021 14:13		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	91	25	0.00017	
Lead	ND	25	<0.00046	
Manganese	ND	25	<0.00046	

**Lab ID:** 21041278-05A **Collection Date:** 4/20/2021 7:56:00 AM

Client Sample ID: Q0424280-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1713370	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	36	1.0	0.021	

**Lab ID:** 21041278-06A **Collection Date:** 4/20/2021 7:56:00 AM

Client Sample ID: 9894279-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1735250	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	64	1.0	0.037	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1735250</b>	Analyst: SRL
Date Analyzed: 4/26/2021 14:17		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	98	25	0.000057	
Lead	ND	25	<0.000014	
Manganese	ND	25	<0.000014	

Client: Gilbane Company Work Order: 21041278

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041278-07A **Collection Date:** 4/20/2021 7:46:00 AM

Client Sample ID: Q0424281-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1737350 Analyst: SRL

Date Analyzed: 4/23/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 43 1.0 0.025

**Lab ID:** 21041278-08A **Collection Date:** 4/20/2021 7:46:00 AM

Client Sample ID: 9894280-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1671030</b>	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	54	1.0	0.032	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1671030</b>	Analyst: SRL
Date Analyzed: 4/26/2021 14:21		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	34	25	0.000020	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.00015	

**Client:** Gilbane Company

**Work Order:** 21041278

**Project:** HPNS Parcel E; J310000400-016

QC BATCH REPORT

s Date: 4/23/2021	
DF: <b>1</b>	
RPD %RPD Limit	Qual
2 2.36 20	
! !	2.36 20

The following samples were analyzed in this batch:

21041278-02A 21041278-04A 21041278-06A 21041278-08A

Client: Gilbane Company QC BATCH REPORT

**Work Order:** 21041278

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>R191091</b>	Instrument ID: BAL2	Method:	PM10	
--------------------------	---------------------	---------	------	--

DUP	Sample ID: <b>21041278-07A DUP</b>					Units: mg/sample			Anal	Analysis Date: 4/23/2021			
Client ID: Q0424281	-MSE02	Run ID:	BAL2_2	10423B		Seq	No: <b>244</b> 8	513	Prep Date:			DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value		%RPD	RPD Limit	Qual
Particulate as PM10		43.42	1.0	0		0	0		43	.19	0.531	20	

The following samples were analyzed in this batch:

21041278-01A 21041278-03A 21041278-05A 21041278-07A

Client: Gilbane Company

**Work Order:** 21041278

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>74084</b>	Instrument ID: ICP3		Metho	d: <b>E12</b>							
MBLK	Sample ID: MBLK-74084-7408	34				Units: µg/s	sample	Analysis	s Date: <b>4/2</b> 0	6/2021 01	27 PM
Client ID:	Ru	ın ID: ICP3	_210426A		Se	eqNo: <b>244</b>	9794	Prep Date: 4/2:	3/2021	DF: <b>1</b>	
Analyte	Resul	t PQ	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	) 10	0								
Lead	ND										
Manganese	ND	10	0								
LCS	Sample ID: <b>LCS-74084-74084</b>					Units: µg/s	sample	Analysis	s Date: <b>4/2</b> 0	6/2021 01	31 PM
Client ID:	Ru	ın ID: ICP3	_210426A		Se	eqNo: <b>244</b> 9	9795	Prep Date: 4/2:	3/2021	DF: <b>1</b>	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Resul	t PQ	L SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper	392.1	10	0 450		0	87.1	75-125	0			
_ead	410.3	3 2	5 450		0	91.2	75-125	0			
Manganese	393.1	10	0 450		0	87.4	75-125	0			
LCSD	Sample ID: <b>LCSD-74084-7408</b>	34				Units: µg/s	sample	Analysis	s Date: 4/20	6/2021 01	35 PM
Client ID:	Ru	in ID: ICP3	_210426A		Se	eqNo: <b>244</b>	9796	Prep Date: 4/2:	3/2021	DF: <b>1</b>	
Analyte	Resul	t PQ	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper	418.1	10	0 450		0	92.9	75-125	392.1	6.42	20	
_ead	440.4	1 2	5 450		0	97.9	75-125	410.3	7.08	20	
Manganese	416.5	5 10	0 450		0	92.6	75-125	393.1	5.79	20	
MS	Sample ID: 21041053-02A MS					Units: µg/s	sample	Analysis	s Date: 4/20	6/2021 01	50 PM
Client ID:	Ru	ın ID: ICP3	_210426A		Se	eqNo: <b>244</b> 9	9798	Prep Date: 4/2:	3/2021	DF: <b>1</b>	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Resul	t PQ	L SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper	699.3	3 10	0 450	302	2.2	88.2	75-125	0			
_ead	432	_	5 450	17.	29	92.2	75-125	0			
Manganese	422.8	3 10	0 450	28.	34	87.7	75-125	0			
MSD	Sample ID: 21041053-02A MS	D				Units: µg/s	sample	Analysis	s Date: <b>4/2</b> 0	6/2021 01	54 PM
Client ID:	Ru	ın ID: ICP3	_210426A		Se	eqNo: <b>244</b> 9	9799	Prep Date: 4/2:	3/2021	DF: <b>1</b>	
Analyte	Resul	t PQ	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	707.8	3 10	0 450	302	2.2	90.1	75-125	699.3	1.22	20	
_ead	446.5			17.		95.4	75-125	432		20	
Manganese	433.8	3 10	0 450	28.		90.1	75-125	422.8	2.56	20	
Γhe following sam	ples were analyzed in this batch:		21041278-02 21041278-08		104	1278-04A	21	041278-06A			

Client: Gilbane Company QUALIFIERS,

 Project:
 HPNS Parcel E; J310000400-016

 WorkOrder:
 21041278

ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
О	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
Е	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
<b>Units Reported</b>	Description

 $\frac{\mu g}{sample}$  mg/sample

## ALS Environmental

Client Name:

GILBANE-WALNUTCREEK

#### Sample Receipt Checklist

Date/Time Received:

21-Apr-21 14:00

Work Order:	210412	<u>78</u>				Received by	y:	SN	<u>H</u>			
Checklist comple		Stephanie H arringtor	1 2	2-Apr-21	_	Reviewed by:		√ieman			23-Apr-2	1
Matrices: Carrier name:	FedEx	eSignature		Date			eSignatu	re			Date	
		r in good condition?		Yes	<b>V</b>	No 🗌	Not F	Present				
		hipping container/cooler?		Yes	<b>✓</b>	No 🗌		Present				
Custody seals ir				Yes		No $\square$		Present	<u>✓</u>			
Chain of custody		·		Yes	<b>✓</b>	No $\square$	14011	TOSCIR				
			ro dO			No 🗌						
		when relinquished and recei	vea?	Yes								
	-	with sample labels?		Yes	<b>✓</b>	No 🗌						
Samples in prop				Yes	<b>✓</b>	No 🗌						
Sample containe	ers intact	?		Yes	<b>✓</b>	No 🗌						
Sufficient sample	le volume	for indicated test?		Yes	<b>✓</b>	No L						
All samples rece	eived with	in holding time?		Yes	<b>✓</b>	No 🗌						
Container/Temp	Blank te	mperature in compliance?		Yes	<b>V</b>	No 🗌						
Sample(s) receiv				Yes		No 🗸						
Temperature(s)/		neter(s):										
Cooler(s)/Kit(s): Date/Time samp		it to storage:										
		ero headspace?		Yes		No 🗌	No VOA	vials subn	nitted	<b>✓</b>		
Water - pH acce				Yes		No 🗌	N/A	<b>~</b>				
pH adjusted? pH adjusted by:				Yes		No 🗌	N/A	<b>~</b>				
				_								
Login Notes:												
										:	 	_
Client Contacted	d:	Da	ate Contacted:			Person	Contacted	d:				
Contacted By:		Re	egarding:									
Comments:												
CorrectiveAction	n:											
										_	 	

# CHAIN-OF-CUSTODY RECORD

Project Number: J310000400

WBS Code: J310000400-016

Gilbane.Navy\_COC\_Field April 20, 2021

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2

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

POC:

COC#	KT042021
1	



Event: Parcel E Phase 2 Air

Monitoring

	nments:				Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP						1 1x 250						
	Event: Parcel E Phase 2 Air I	Monitorin	g			1	1	1												
					Samp											Sample	-	(ft bgs)		
	Sample ID	Matrix	Date	Time	Init.		$\Box$		$\perp$	1	$\perp$	$\sqcup$	$\perp$		tion ID	Туре	_	Bottom	Cooler	Comments
1	Q0424278-MSE01	A	04/15/2021	1522	KT	Х									SE1	N2	0.00	0.00	1	VOLUME: 535.05
2	9894277-MSE01	Α	04/15/2021	1522	KT		X	Х							SE1	N2	0.00	0.00	1	VOLUME: 534.17
3	Q0424279-MSE02	Α	04/15/2021	1530	KT	Х								AM	SE2	N2	0.00	0.00	1	VOLUME: 558.42
4	9894278-MSE02	Α	04/15/2021	1530	KT		X	Х						AM	SE2	N2	0,00	0.00	1	VOLUME: 541.73
5	Q0424280-MSE01	Α	04/20/2021	0756	KT	Х				T				AM	SE1	N1	0.00	0.00	1	VOLUME: 1713.37
6	9894279-MSE01	Α	04/20/2021	0756	KT		Х	Х						AM	SE1	N1	0.00	0.00	1	VOLUME: 1735.25
7	Q0424281-MSE02	Α	04/20/2021	0746	KT	Х								AM	SE2	N1	0.00	0.00	1	VOLUME: 1737.35
8	9894280-MSE02	Α	04/20/2021	0746	KT		Х	Х						AM	SE2	N1	0.00	0.00	1	VOLUME: 1671.03
9																				
10																		-		4
Tur	naround Time: 5 days																			
Date	inquished by: (Signature)		Date	Time	Receive	d box	/CL		dament.				1	Date	Time	Shipping	Date 11	Camias /	A Irla III N	t t mala max
Hei	Inquisned by: (Signature)	-	il v	1				gria	iure)				+	.1 1						734 9713 7351
16	XIII		4/20/21	WYN	FC	16	X						1	1204	1400		OLO : T/E	,, EQE : ;	, 00EX , ,	.0407157001
6																				
		-+									_		+			Received I	y Labo	ratory:	(Signatur	e, Date, Time) & condition
								_					+		-	4		1	4	-21-21

Laboratory: ALS Laboratory Group, Cincinnati, OH

Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242

#### **Laboratory Analysis Report**

Job ID: 21041289



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:Brett WomackP.O.#.:J310000400-015Client Address:1655 Grant Street, Suite 1200Date Received:04/16/2021 15:50City, State, Zip:Concord, California, 94520Sample Collected By:Kimberly Tom

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-041321	4/13/2021 15:42	Cassette	21041289.01
MSE02-041321	4/13/2021 15:46	Cassette	21041289.02
MSE01-041421	4/14/2021 15:30	Cassette	21041289.03
MSE02-041421	4/14/2021 15:38	Cassette	21041289.04

Released By: Senthilkumar Sevukan

Title: Vice President Operations

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

ab-q210-0321

4/21/2021

Page 1 of 4 Report Number: RPT210421050

Analyst:



#### ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 4/21/2021

Job ID: 21041289

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	е		Project: HPI	NS Parcel E I	Phase II :	31000040	00				ļ	Attn: Brett Womack			
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
21041289.01	MSE01-041321	04/13/2021	Area	2			463	926	100	14.5	18.471	0.008		04/21/21	Habedi
21041289.02	MSE02-041321	04/13/2021	Area	2			482	964	100	11.0	14.013	0.006		04/21/21	Habedi
21041289.03	MSE01-041421	04/14/2021	Area	2			433	866	100	9.5	12.102	0.005		04/21/21	Habedi
21041289.04	MSE02-041421	04/14/2021	Area	2			455	910	100	10.5	13.376	0.006		04/21/21	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>21041289</b>	Date Receive	d: <b>04</b>	/16/2021		Time I	Received: 3	3:50PM		
Clien	t Name : <b>Gilbane</b>									
Temp	perature : 20.3°C	Sample pH:	N/A	1						
Ther	mometer ID : <b>102002320</b>	pH Paper ID	: N/A	<u> </u>						
Pers	ervative :									
		Chec	k Point	ts				Yes	No	N/A
1.	Cooler seal present and signed.							Х		
2.	Sample(s) in a cooler.								Х	
3.	If yes, ice in cooler.									Х
4.	Sample(s) received with chain-of-	custody.						Х		
5.	C-O-C signed and dated.							Х		
6.	Sample(s) received with signed sa	mple custody sea	al.						Х	
7.	Sample containers arrived intact. (	If no comment).						X		
8.	Matrix Water Soil Liq	uid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
0.	. 🗆 🗆 🗆			<b>V</b>						<u> </u>
9.	Sample(s) were received in approp	riate container(s	<b>).</b>					Х		
10.	Sample(s) were received with prop	er preservative								Х
11.	All samples were logged or labeled	•						Х		
12.	Sample ID labels match C-O-C ID's							,		
	•							X		
13.	Bottle count on C-O-C matches bot									
13. 14.	Bottle count on C-O-C matches bot	tles found.						X		
		tles found. llyses requested.						X X		
14.	Sample volume is sufficient for ana	tles found. llyses requested.						X X X		X
14. 15.	Sample volume is sufficient for and Samples were received within the	tles found. llyses requested.						X X X		X
14. 15. 16.	Sample volume is sufficient for and Samples were received within the VOA vials completely filled.	tles found. lyses requested. hold time.						x x x		X
14. 15. 16. 17.	Sample volume is sufficient for and Samples were received within the VOA vials completely filled.  Sample accepted.	tles found. alyses requested. hold time. sub-out		em:				x x x		
14. 15. 16. 17. 18	Sample volume is sufficient for and Samples were received within the VOA vials completely filled.  Sample accepted.  Has client been contacted about samples.	tles found. alyses requested. hold time. sub-out		em:				x x x		

Received by : JMontemayor Check in by/date : JMontemayor / 04/16/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

#### <u>cilbane</u> Chain-Of-Custody HPNS Parcel E Phase II J310000400 A&B Labs Date: 4/15/2021 Project Name and Number: Laboratory Name: Contact Name: Page: 1 Project Manager Address: 10100 East Fwy Ste. 100 of 1 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029 Analysis: \* Job ID:21041289 Sample Depth (bottom) Asbestos Sample Depth (top) No. of Containers Sample Matrix Preservative: Flow Rate = 2 L/min None Date Sample ID Container Type: Special Instructions/Comments Filter Total Time (min) MSE01-041321 OVA 1542 NA NA 1 463 4/13/2021 AA Х NA MSE02-041321 4/13/2021 X 482 1546 NA NA AA 433 MSE01-041421 4/14/2021 1530 NA AA X NA MAA 1538 4/14/2021 MSE02-041421 NA NA 1 AA X 455 Courier/Airbill No.: FedEx/ 7734 5599 0483 Sampled By: Kimber y Relinquished By/Affiliation Received By/ Affiliation: Date: Time: Date: Time: Signature: Special Instructions: None 4/15/4 1300 1300 1550 Send 102M234 203:0 Results to: Turnaround Time: Standard



30-Apr-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21041476

Dear Brett,

ALS Environmental received 8 samples on 23-Apr-2021 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

### R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Work Order Sample Summary

Work Order: 21041476

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	Hold
21041476-01	Q0424282-MSE01	Air		4/21/2021 07:55	4/23/2021 10:15	
21041476-02	9894281-MSE01	Air		4/21/2021 07:55	4/23/2021 10:15	
21041476-03	Q0424283-MSE02	Air		4/21/2021 08:05	4/23/2021 10:15	
21041476-04	9894282-MSE02	Air		4/21/2021 08:05	4/23/2021 10:15	
21041476-05	Q0424284-MSE01	Air		4/22/2021 08:20	4/23/2021 10:15	
21041476-06	9894283-MSE01	Air		4/22/2021 08:20	4/23/2021 10:15	
21041476-07	Q0424285-MSE02	Air		4/22/2021 08:08	4/23/2021 10:15	
21041476-08	9894284-MSE02	Air		4/22/2021 08:08	4/23/2021 10:15	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21041476

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21041476

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041476-01A **Collection Date:** 4/21/2021 7:55:00 AM

Client Sample ID: Q0424282-MSE01 Matrix: AIR

**Analyses** 

 PM : PM10 40CFR 50 APPDIX J
 Method: PM10 Air Volume (L): 1729030 Analyst: SRL

 Date Analyzed: 4/29/2021
 Reporting Limit mg/sample mg/sample mg/m3

 Particulate as PM10
 53
 1.0
 0.031

**Lab ID:** 21041476-02A **Collection Date:** 4/21/2021 7:55:00 AM

Client Sample ID: 9894281-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1746990	Analyst: SRL
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	95	1.0	0.054	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1746990</b>	Analyst: AZ
Date Analyzed: 4/30/2021 12:36		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	250	25	0.00014	
Lead	ND	25	<0.00014	
Manganese	30	25	0.000017	

**Lab ID:** 21041476-03A **Collection Date:** 4/21/2021 8:05:00 AM

Client Sample ID: Q0424283-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1746560	Analyst: SRL
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	69	1.0	0.040	

Client: Gilbane Company Work Order: 21041476

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041476-04A **Collection Date:** 4/21/2021 8:05:00 AM

Client Sample ID: 9894282-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1680020</b>	Analyst: SRL
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	80	1.0	0.047	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1680020	Analyst: AZ
Date Analyzed: 4/30/2021 12:54		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	210	25	0.00013	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21041476-05A **Collection Date:** 4/22/2021 8:20:00 AM

Client Sample ID: Q0424284-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1763010	Analyst: SRL
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	51	1.0	0.029	

**Lab ID:** 21041476-06A **Collection Date:** 4/22/2021 8:20:00 AM

Client Sample ID: 9894283-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1744250	Analyst: SRL
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	73	1.0	0.042	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1744250</b>	Analyst: AZ
Date Analyzed: 4/30/2021 12:58		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	170	25	0.00010	
Lead	ND	25	<0.000014	
Manganese	ND	25	<0.000014	

Client: Gilbane Company Work Order: 21041476

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041476-07A **Collection Date:** 4/22/2021 8:08:00 AM

Client Sample ID: Q0424285-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1774050 Analyst: SRL

Date Analyzed: 4/29/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 50 1.0 0.028

**Lab ID:** 21041476-08A **Collection Date:** 4/22/2021 8:08:00 AM

Client Sample ID: 9894284-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1704610	Analyst: SRL
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	65	1.0	0.038	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1704610</b>	Analyst: AZ
Date Analyzed: 4/30/2021 13:02		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	200	25	0.00012	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Client:** Gilbane Company

**Work Order:** 21041476

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R191324 Instrument ID: BAL2 Method: TSP

DUP	Sample ID: 21041476-02A DUP					L	Jnits: <b>mg/s</b>	sample	Anal	Analysis Date: 4/29/2021			
Client ID: 9894281-MSE01 Run			D: BAL2_210429A			SeqNo: <b>2453154</b>			Prep Date:	Date: DF:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value		%RPD	RPD Limit	Qual
Total suspended part	iculate	96.36	1.0	0		0	0		95.	.02	1.4	20	

The following samples were analyzed in this batch:

21041476-02A 21041476-04A 21041476-06A 21041476-08A

QC BATCH REPORT

Client: Gilbane Company QC BATCH REPORT

**Work Order:** 21041476

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R191325 Instrument ID: BAL2 Method: PM10

DUP	UP Sample ID: 21041476-07A DUP					Units: mg/sample			Analys	Analysis Date: 4/29/2021		
Client ID: Q0424285-	MSE02	Run ID:	BAL2_2	10429B		Sec	qNo: <b>245</b> 3	162	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10		51.12	1.0	0		0	0		50.4	8 1.26	20	

The following samples were analyzed in this batch:

21041476-01A 21041476-03A 21041476-05A 21041476-07A

**Client:** Gilbane Company

**Work Order:** 21041476

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>74222</b>	Instrument ID: ICI	P1		Method	d: <b>E12</b>							
MBLK	Sample ID: MBLK-742	22-74222				ι	Jnits: µg/s	ample	Analysis	Date: 4/30	)/2021 12:	24 PM
Client ID:		Run ID	: ICP1_2	210430A		Se	qNo: <b>245</b>	4376	Prep Date: 4/30	)/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		ND	100									
Lead		ND	25									
Manganese		ND	100									
LCS	Sample ID: LCS-74222	2-74222				ι	Jnits: µg/s	ample	Analysis	Date: 4/30	)/2021 12:	28 PM
Client ID:		Run ID	: ICP1_2	210430A		Se	qNo: <b>245</b> 4	4377	Prep Date: 4/30	)/2021	DF: 1	
		D 16	<b>DO</b> 1	ODKV	SPK Ref Value		0/ DEO	Control Limit	RPD Ref Value	0/ DDD	RPD Limit	Qua
Analyte		Result	PQL	SPK Val	Value		%REC	Littill	Value	%RPD		Qua
Copper		411.8	100	450		0	91.5	75-125	0			
Lead		446.4	25	450		0	99.2	75-125	0			
Manganese		394.6	100	450		0	87.7	75-125	0			
LCSD	Sample ID: LCSD-742	22-74222				ι	Jnits: µg/s	ample	Analysis	Date: 4/30	)/2021 12:	32 PM
Client ID:		Run ID	: ICP1_2	210430A		Se	qNo: <b>245</b> 4	4378	Prep Date: 4/30	)/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		407.1	100	450		0	90.5	75-125	411.8	1.16	20	
Lead		446	25	450		0	99.1	75-125	446.4	0.0908	20	
Manganese		393.8	100	450		0	87.5	75-125	394.6	0.217	20	
MS	Sample ID: 21041476-	02A MS				ι	Jnits: µg/s	ample	Analysis	Date: 4/30	)/2021 12:	47 PM
Client ID: <b>9894281-</b>	MSE01	Run ID	: ICP1_2	210430A		Se	qNo: <b>245</b>	4380	Prep Date: 4/30	)/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		634.5	100	450	248	3.2	85.8	75-125	0			
Lead		458.1	25	450	17.	84	97.8	75-125	0			
Manganese		423.3	100	450	30.	48	87.3	75-125	0			
MSD	Sample ID: 21041476-	02A MSD				ι	Jnits: µg/s	ample	Analysis	Date: 4/30	)/2021 12:	51 PM
Client ID: 9894281-	MSE01	Run ID	: ICP1_2	210430A		Se	qNo: <b>245</b> 4	4381	Prep Date: 4/30	)/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		623.2	100	450	248	3.2	83.4	75-125	634.5	1.79	20	
Lead		459	25	450	17.		98	75-125	458.1	0.196	20	
Manganese		417.4	100	450	30.		86	75-125	423.3		20	
	oles were analyzed in this		2	1041476-02 <i>F</i> 1041476-08 <i>F</i>	A 2'		476-04A		041476-06A			

**ALS Environmental** Date: 30-Apr-21

**Client:** Gilbane Company

**QUALIFIERS, Project:** HPNS Parcel E; J310000400-016 **ACRONYMS, UNITS** 

WorkOrder: 21041476

#### Qualifier **Description** Value exceeds Regulatory Limit Not accredited a В Analyte detected in the associated Method Blank above the Reporting Limit Е Value above quantitation range Н Analyzed outside of Holding Time Analyte detected below quantitation limit Not offered for accreditation n ND Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked O P Dual Column results percent difference > 40% R RPD above laboratory control limit S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL **Acronym** Description DUP Method Duplicate Е EPA Method LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MBLK Method Blank MDL Method Detection Limit MQL Method Quantitation Limit MS Matrix Spike MSD Matrix Spike Duplicate PDS Post Digestion Spike PQL Practical Quantitaion Limit SDL Sample Detection Limit SW SW-846 Method **Units Reported** Description

μg/sample mg/sample

# ALS Environmental

Client Name:

GILBANE-WALNUTCREEK

### Sample Receipt Checklist

Date/Time Received:

23-Apr-21 10:15

Work Order:	210414	<u>76</u>				Received by	y:	RDI	<u>N</u>			
Checklist comple		Stephanie H arringto	on	23-Apr-21	_	Reviewed by:		√ieman			27-Apr-2	21_
Matrices: Carrier name:	FedEx	eSignature		Date			eSignatu	ire			Date	
Shipping contair		r in good condition?		Yes	<b>V</b>	No 🗌	Not	Present				
		hipping container/cooler?		Yes	<b>✓</b>	No 🗌		Present				
Custody seals ir				Yes	<b>✓</b>	No 🗌		Present				
Chain of custod		·		Yes	<b>✓</b>	No 🗌						
		when relinquished and rece	eived?	Yes	<b>✓</b>	No 🗌						
		with sample labels?		Yes	<b>✓</b>	No 🗌						
Samples in prop	-			Yes	<b>✓</b>	No $\square$						
Sample containe				Yes	<b>✓</b>	No $\square$						
		for indicated test?		Yes	<b>✓</b>	No $\square$						
All samples rece				Yes	<b>✓</b>	No $\square$						
		mperature in compliance?		Yes	<b>✓</b>	No $\square$						
Sample(s) recei				Yes		No 🗹						
Temperature(s)/						110 🖭						
Cooler(s)/Kit(s):	:											
Date/Time samp				Vac		No	No VOA	براده ماداد	n:ttod	<b>✓</b>		
		zero headspace?		Yes		No ∐		vials subr	millea	V		
Water - pH acce	eptable up	oon receipt?		Yes				<b>✓</b>				
pH adjusted? pH adjusted by:				Yes		No 📙	N/A					
Login Notes:				<u> </u>								
3												
							- — — –				 	
Client Contacted	٦٠	г	Date Contacted:			Parcon	Contacte	q.				
Contacted By:	u.		Regarding:			1 613011	Contacte	u.				
Contacted by.		Г	regarding.									
Comments:												
CorrectiveAction	n:											
										_	 	

# CHAIN-OF-CUSTODY RECORD

Gilbane Federal

21041476

COC # KT042221



1655 Grant Street, Suite 1200, Concord, CA 94520

Proj	ect Name: Hunters	Point Shi	pyard, F	Parcel E RA Ph	ase 2		Laboratory: ALS Laboratory Group, Cincinnati, OH  Levent: Parcel E Phase 2 A  Monitoring														
Proj	ect Number: J31000	00400					POC						_				*******************			MOUNTOU	ng
WB:	S Code: J310000400	)-016					Ship	to:	4388	3 Gler	ndale	Milford	d Rd.,	Blue	Ash, OH 4524	2					
	ipment:					Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP						1 1x 250-	er/PreservativmL Plastic, 4					
	Event: Parcel E Pha	ise 2 Air N	/lonitorin	9		4	1	ய் 1	1												
	Sample ID		Matrix	Date	Time	Samp Init.									Locati	on ID	Sample Type	Depth Top -	(ft bgs) Bottom	Cooler	Comments
1	Q0424282-MSE01	0	Α	04/21/2021	0755	KT	Х								AMS	E1	N1	0.00	0.00	1	VOLUME: 1729.03
2	9894281-MSE01	02	Α	04/21/2021	0755	KT		Χ	Х						AMS	SE1	N1	0.00	0.00	1	VOLUME: 1746.99
3	Q0424283-MSE02	03	Α	04/21/2021	0805	KT	Х								AMS	E2	N1	0.00	0.00	1	VOLUME: 1746.56
4	9894282-MSE02	.4	Α	04/21/2021	0805	KT		х	Х						AMS	E2	N1	0.00	0.00	1	VOLUME: 1680.02
5	Q0424284-MSE01	05	Α	04/22/2021	0820	KT	Х								AMS	8E1	N1	0.00	0.00	1	VOLUME: 1763.01
6	9894283-MSE01	06	Α	04/22/2021	0820	КТ		Χ	Х						AMS	3E1	N1	0.00	0.00	1	VOLUME: 1744.25
7	Q0424285-MSE02	07	Α	04/22/2021	0808	KT	Х								AMS	SE2	N1	0.00	0.00	1	VOLUME: 1774.05
8	9894284-MSE02	08	Α	04/22/2021	0808	KT		Χ	Х						AMS	SE2	N1	0.00	0.00	1	VOLUME: 1704.61
9																					
10																					
Tur	naround Time: 5 da	ys																			
Rel	inguished by: (Si	gnature)		Date	Time	Receive	d by	: (S	gna	ture)					Date	Time	Shipping	Date / 0	Carrier /	Airbill N	lumber
4				4224	1400	Red	-							У	1/22/4	1400	Shipping Da	ate: 4/22	/2021 /	FedEx 7	735 2227 6573
								E	Cal Marketo P. St.		Cus H	y 5 24	/	4	153/2/	10:15	Received t	y Labo	ratory:	(Signatur	re, Date, Time) & condition
												7 - 4	V 1								

# **Laboratory Analysis Report**

Job ID: 21041601



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:Brett WomackP.O.#.:J310000400-015Client Address:1655 Grant Street, Suite 1200Date Received:04/21/2021 12:50City, State, Zip:Concord, California, 94520Sample Collected By:Kimberly Tom

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-041521	4/15/2021 15:30	Cassette	21041601.01
MSE02-041521	4/15/2021 15:20	Cassette	21041601.02
MSE01-041921	4/19/2021 15:40	Cassette	21041601.03
MSE02-041921	4/19/2021 15:32	Cassette	21041601.04

Released By: Senthilkumar Sevukan

Title: Vice President Operations

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

ab-q210-0321

4/27/2021

Page 1 of 4 Report Number: RPT210427042

Analyst:



### ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 4/27/2021

Job ID: 21041601

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	Client: Gilbane Project: HPNS Parcel E Phase II J310000400 Attn: Brett Womack														
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
21041601.01	MSE01-041521	04/15/2021	Area	2			455	910	100	11.5	14.650	0.006		04/27/21	Habedi
21041601.02	MSE02-041521	04/15/2021	Area	2			461	922	100	13.5	17.197	0.007		04/27/21	Habedi
21041601.03	MSE01-041921	04/19/2021	Area	2			441	882	100	12.5	15.924	0.007		04/27/21	Habedi
21041601.04	MSE02-041921	04/19/2021	Area	2			452	904	100	10.0	12.739	0.005		04/27/21	Habedi

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



# **Sample Condition Checklist**

A&B	B JobID : <b>21041601</b> Date Received : <b>04/21/2021</b> Time R	eceived : <b>12:50</b>	PM	
Clier	ent Name : Gilbane			
Tem	mperature : 17.8°C Sample pH : na			
Ther	ermometer ID : <b>102002320</b> pH Paper ID : <b>na</b>			
Pers	rservative :			
	Check Points	Y	es No	N/A
1.	Cooler seal present and signed.	)	<	
2.	Sample(s) in a cooler.		Х	
3.	If yes, ice in cooler.			Х
4.	Sample(s) received with chain-of-custody.	)	<	
5.	C-O-C signed and dated.	)	<	
6.	Sample(s) received with signed sample custody seal.		Х	
7.			<	
	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk	Badge Food	Otl	ner
8.				-
8.				]
8. 9.	Sample(s) were received in appropriate container(s).		(	
	Sample(s) were received in appropriate container(s).			X
9.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative	, ;		
9. 10.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.	)	(	
9. 10. 11.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's	)	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	
9. 10. 11. 12.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.		( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	
9. 10. 11. 12.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.  Sample volume is sufficient for analyses requested.		<	
9. 10. 11. 12. 13.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.  Sample volume is sufficient for analyses requested.  Samples were received within the hold time.		<	
9. 10. 11. 12. 13. 14.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.  Sample volume is sufficient for analyses requested.  Samples were received within the hold time.  VOA vials completely filled.		<	X
9. 10. 11. 12. 13. 14. 15.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.  Sample volume is sufficient for analyses requested.  Samples were received within the hold time.  VOA vials completely filled.  Sample accepted.		<	X
9. 10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.  Sample volume is sufficient for analyses requested.  Samples were received within the hold time.  VOA vials completely filled.  Sample accepted.		<	X
9. 10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropriate container(s).  Sample(s) were received with proper preservative  All samples were logged or labeled.  Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.  Sample volume is sufficient for analyses requested.  Samples were received within the hold time.  VOA vials completely filled.  Sample accepted.  Has client been contacted about sub-out		<	X

Received by: AOballe Check in by/date: AOballe / 04/21/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Send Results to: HOLOUSSED PROPS  Turnaround Time: Standard	Special Instructions: None 4/20/2 1300	Sampled By: Kim but Con Sampler: Kim but Son Date: Time: F		MSE01-041921 (75A) 4/19/2021 1540 NA NA 1 AA X  MSE02-041921 (77A) 4/19/2021 1532 NA NA 1 AA X	7 4/15/2021 1520 NA NA 1 AA	NA 1 AA	Sample Depth (top)  Sample Depth (bottom)  No. of Containers  Sample Matrix  Filter Type:  Analysis:	Site Location: Hunters Point, San Francisco, CA 94124  Houston TX 77029	Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs	
Amonda Oballe 4:2121 1250	Red for alock	Courier/Airbill No.: FedEx/ 7734 9711 4085  Received By/ Affiliation: Date: Time:	Job ID:21041601	441	461	1 455	Flow Rate = 2 L/min  Special Instructions/Comments  Total Time (min)	Page: 1 of 1	Date: 4/20/2021	Chair of Cascody



11-May-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016** Work Order: **21041778** 

Dear Brett,

ALS Environmental received 8 samples on 28-Apr-2021 10:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

# R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

**Client:** Gilbane Company

**Project:** HPNS Parcel E; J310000400-016

Work Order: 21041778

21041778-07 Q0424289-MSE02

21041778-08 9894288-MSE02

Lab Samp ID Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	Hold
21041778-01 Q0424286-MSE01	Air		4/22/2021 15:23	4/28/2021 10:30	
21041778-02 9894285-MSE01	Air		4/22/2021 15:23	4/28/2021 10:30	
21041778-03 Q0424287-MSE02	Air		4/22/2021 15:27	4/28/2021 10:30	
21041778-04 9894286-MSE02	Air		4/22/2021 15:27	4/28/2021 10:30	
21041778-05 Q0424288-MSE01	Air		4/27/2021 08:20	4/28/2021 10:30	
21041778-06 9894287-MSE01	Air		4/27/2021 08:20	4/28/2021 10:30	

Air

Air

**Work Order Sample Summary** 

4/27/2021 08:07 4/28/2021 10:30

4/27/2021 08:07 4/28/2021 10:30

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21041778

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21041778

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041778-01A **Collection Date:** 4/22/2021 3:23:00 PM

Client Sample ID: Q0424286-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 459430 Analyst: SRL

Date Analyzed: 5/4/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 ND 1.0 <0.0022

**Lab ID:** 21041778-02A **Collection Date:** 4/22/2021 3:23:00 PM

Client Sample ID: 9894285-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 465340	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	8.6	1.0	0.019	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>465340</b>	Analyst: AZ
Date Analyzed: 5/6/2021 11:53		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	53	25	0.00011	
Lead	ND	25	<0.00054	
Manganese	ND	25	<0.00054	

**Lab ID:** 21041778-03A **Collection Date:** 4/22/2021 3:27:00 PM

Client Sample ID: Q0424287-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): <b>490900</b>	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	ND	1.0	<0.0020	

Client: Gilbane Company Work Order: 21041778

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041778-04A **Collection Date:** 4/22/2021 3:27:00 PM

Client Sample ID: 9894286-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>467150</b>	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	9.0	1.0	0.019	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>467150</b>	Analyst: AZ
Date Analyzed: 5/6/2021 12:05		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Copper	58	25	0.00012	
Lead	ND	25	<0.00054	
Manganese	ND	25	<0.00054	

**Lab ID:** 21041778-05A **Collection Date:** 4/27/2021 8:20:00 AM

Client Sample ID: Q0424288-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1739070	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	24	1.0	0.014	

**Lab ID:** 21041778-06A **Collection Date:** 4/27/2021 8:20:00 AM

Client Sample ID: 9894287-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1737420	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	30	1.0	0.017	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1737420	Analyst: AZ
Date Analyzed: 5/6/2021 12:09		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	210	25	0.00012	
Lead	ND	25	<0.000014	
Manganese	ND	25	<0.000014	

Client: Gilbane Company Work Order: 21041778

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041778-07A **Collection Date:** 4/27/2021 8:07:00 AM

Client Sample ID: Q0424289-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1749380 Analyst: SRL

Date Analyzed: 5/4/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 20 1.0 0.011

**Lab ID:** 21041778-08A **Collection Date:** 4/27/2021 8:07:00 AM

Client Sample ID: 9894288-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1676760	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	26	1.0	0.015	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1676760</b>	Analyst: AZ
Date Analyzed: 5/6/2021 12:13		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	150	25	0.000091	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

Date: 11-May-21 QC BATCH REPORT

Client: Gilbane Company Work Order: 21041778

**Project:** HPNS Parcel E; J310000400-016

Batch ID: R191694 Instrument ID: BAL2 Method: TSP

DUP Sample ID: 210	041778-02A DUP				U	nits: <b>mg/</b> s	sample	Anal	ysis Date: 5/4	/2021	
Client ID: 9894285-MSE01	Run ID:	BAL2_2	10504A		Seq	No: <b>246</b> 3	3334	Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	8.66	1.0	0		0	0		8	.61 0.579	20	
DUP Sample ID: 210	041900-07A DUP				U	nits: <b>mg/</b> :	sample	Anal	ysis Date: <b>5/4</b>	/2021	
Client ID:	D ID.	DAL 0 0	405044		0	No. 0400		Dran Data		DE: 4	

DUP	Sample ID: 21041900-07	7A DUP				ι	Jnits: <b>mg/</b> s	sample	Analy	sis Date: <b>5/4/</b>	2021	
Client ID:		Run ID:	BAL2_2	10504A		Se	qNo: <b>246</b> 3	350	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10		16.68	1.0	0		0	0		16.2	29 2.37	20	

The following samples were analyzed in this batch:

21041778-01A	21041778-02A	21041778-03A
21041778-04A	21041778-05A	21041778-06A
21041778-07A	21041778-08A	

Client: Gilbane Company

**Work Order:** 21041778

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>74355</b>	Instrument ID: I	CP1		Metho	d: <b>E12</b>							
MBLK	Sample ID: MBLK-74	355-74355				Uni	its: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 11:4	2 AM
Client ID:		Run ID	: ICP1_2	10506A		SeqN	No: <b>245</b> 9	9757	Prep Date: 5/5/	/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	o,	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		ND	100									
Lead		ND	25									
Manganese		ND	100									
LCS	Sample ID: LCS-743	55-74355				Uni	its: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 11:4	6 AM
Client ID:		Run ID	: ICP1_2	10506A		SeqN	lo: <b>245</b> 9	9758	Prep Date: 5/5	/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value	9	%REC	Limit	Value	%RPD	Limit	Qual
Copper		383.5	100	450		0	85.2	75-125	0	ı		
Lead		429.9	25	450		0	95.5	75-125	0	1		
Manganese		390.9	100	450		0	86.9	75-125	0	l		
_CSD	Sample ID: LCSD-74	355-74355				Uni	its: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 11:4	9 AM
Client ID:		Run ID	: ICP1_2	10506A		SeqN	No: <b>245</b> 9	9759	Prep Date: 5/5	/2021	DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	9	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		401.4	100	450		0	89.2	75-125	383.5	4.56	20	
.ead		446.7	25	450		0	99.3	75-125	429.9	3.84	20	
Manganese		407.3	100	450		0	90.5	75-125	390.9	4.1	20	
MS	Sample ID: 21041778	3-02A MS				Uni	its: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 11:5	7 AM
Client ID: 9894285	i-MSE01	Run ID	: ICP1_2	10506A		SeqN	No: <b>245</b> 9	9761	Prep Date: 5/5/	/2021	DF: <b>1</b>	
					SPK Ref			Control	RPD Ref		RPD	
nalyte		Result	PQL	SPK Val	Value	9	%REC	Limit	Value	%RPD	Limit	Qual
Copper		460.8	100	450	53.		90.5	75-125	0			
_ead		482.4	25	450	4.3		106	75-125	0			
Manganese		414.9	100	450	5.82	23	90.9	75-125	0	<u> </u>		
MSD	Sample ID: 21041778	3-02A MSD				Uni	its: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 12:0	1 PM
Client ID: 9894285	i-MSE01	Run ID	: ICP1_2	10506A		SeqN	No: <b>245</b> 9	9762	Prep Date: 5/5	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	o,	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		462.6	100	450	53.4	46	90.9	75-125	460.8	0.39	20	
_ead		464.8	25	450	4.3		102	75-125	482.4	3.71	20	
Manganese		416.6	100	450	5.82	23	91.3	75-125	414.9	0.422	20	
The following sam	nples were analyzed in th	is batch:		1041778-02/ 1041778-08/		104177	78-04A	21	041778-06A			

Client: Gilbane Company QUALIFIERS,

Project: HPNS Parcel E; J310000400-016

Worldowler: ACRONYMS, UNITS

WorkOrder: 21041778

#### Qualifier **Description** Value exceeds Regulatory Limit Not accredited a В Analyte detected in the associated Method Blank above the Reporting Limit Е Value above quantitation range Н Analyzed outside of Holding Time Analyte detected below quantitation limit Not offered for accreditation n ND Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked O P Dual Column results percent difference > 40% R RPD above laboratory control limit S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL **Acronym** Description DUP Method Duplicate Е EPA Method LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MBLK Method Blank MDL Method Detection Limit MQL Method Quantitation Limit MS Matrix Spike MSD Matrix Spike Duplicate PDS Post Digestion Spike PQL Practical Quantitaion Limit SDL Sample Detection Limit SW SW-846 Method **Units Reported** Description

μg/sample

mg/sample

# ALS Environmental

### Sample Receipt Checklist

Client Name: <u>G</u>	ILBANE-WALNUTCREEK				Date/Time F	Received:	28-Apr-2	1 10:30		
Work Order: 21	<u>1041778</u>				Received by	y:	<u>RDN</u>			
Checklist complete	ed by: R Ob Nieman	29	9-Apr-21	=	Reviewed by:	R ob Nier	nan			30-Apr-21
Matrices: Carrier name:	<u>FedEx</u>	l				3				
Shipping container	/cooler in good condition?		Yes	<b>v</b>	No 🗌	Not Pres	ent 🗌			
Custody seals intac	ct on shipping container/cooler?		Yes	<b>v</b>	No 🗌	Not Pres	ent 🗌			
Custody seals intac	ct on sample bottles?		Yes		No 🔲	Not Pres	ent 🔳			
Chain of custody p	resent?		Yes	<b>v</b>	No 🗌					
Chain of custody s	igned when relinquished and red	ceived?	Yes	<b>✓</b>	No 🗌					
Chain of custody a	grees with sample labels?		Yes	<b>✓</b>	No 🗌					
Samples in proper	container/bottle?		Yes	<b>V</b>	No 🗆					
Sample containers	intact?		Yes	<b>V</b>	No 🗌					
Sufficient sample v	volume for indicated test?		Yes	<b>V</b>	No 🗌					
All samples receive	ed within holding time?		Yes	<b>v</b>	No 🗌					
Container/Temp Bl	lank temperature in compliance?	•	Yes	<b>v</b>	No 🗌					
Sample(s) received Temperature(s)/Th			Yes		No 🗹					
Cooler(s)/Kit(s):										
Date/Time sample(	. ,		\\\-		N.	NI- MOA - fall				
	have zero headspace?		Yes		No ∐	No VOA vials	submitted	<b>✓</b>		
Water - pH accepta	able upon receipt?		Yes		No 🗏	N/A				
pH adjusted? pH adjusted by:			Yes -		No 🗏	N/A				
Login Notes:										
Client Contacted:		Date Contacted:			Person	Contacted:				
Contacted By:		Regarding:								
								<del>-</del>		
Comments:										
CorrectiveAction:										
								C	00 Da	a a 1 of 1

### **CHAIN-OF-CUSTODY** RECORD

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2

Gilbane Federal >1041778

1655 Grant Street, Suite 1200, Concord, CA 94520

Laboratory: ALS Laboratory Group, Cincinnati, OH

COC# KT042721



Event: Parcel E Phase 2 Air

Pro	ject Name: Hunters P	oint Sni	pyard, F	arcei E MA Ph	Hae v		_	100	ury.	ALO I	.0,001	atory .	oroup,	VIIIV	minum, or i					Monitorin	9
Pro	ject Number: J310000	)400					PO											_	_		w .
WB	S Code: J310000400-	016					Ship	to:	438	8 Gle	ndale	Milfor	rd Rd.,	Blue	Ash, OH 4524	12					
Cor	S Code: J310000400-nments:	016				Analytical Test Method	CAAIR - Air PM10	- Air Pb Mn Cu	N0500 - Air TSP		noale	Militor	ra Ha.,	Bitte	Code Ma A Alr Code Contai 1 1x 250	trix					
	Event: Parcel E Phas	e 2 Air N	/lonitorin	ıa		Ā	1 CA	- E12	2		+										
					Time	Samp Init.						П			Locat	ion ID	Sample Type	Depth Top - I	(ft bgs) Bottom	Cooler	Comments
	Sample ID Q0424286-MSE01	-1	Matrix	Date 04/22/2021	1523	KT	х			+	+	+	-	$\vdash$		SE1	N2	0.00	0.00	1	VOLUME: 459.43
1	9894285-MSE01	0	A	04/22/2021	1523	KT	<u>^</u>	Х	X	$\vdash$	+	+		$\vdash$		SE1	N2	0.00	0.00	1	VOLUME: 465.34
2	Q0424287-MSE02	63	A	04/22/2021	1527	KT	X	_	Ĥ	$\vdash$	+	+	$\vdash$	$\vdash$		SE2	N2	0.00	0.00	1	VOLUME: 490.90
3			-	1	1527	KT	Ĥ	Х	X	$\vdash$	+	+	$\vdash$			SE2	N2	0.00	0.00	1	VOLUME: 467.15
4	9894286-MSE02	64	A	04/22/2021	0820	KT	Х	Ĥ	_	+	+	+	$\vdash$			ISE1	N1	0.00	0.00	1	VOLUME: 1739.07
5	Q0424288-MSE01	65	A	04/27/2021		KT	l^	Х	X	$\vdash$	+	+		$\vdash$		ISE1	N1	0.00	0.00	1	VOLUME: 1737.42
6	9894287-MSE01	06	A	04/27/2021	0820	KT	X	^	<u> ^</u>	+	+	+	$\vdash$	+		ISE2	N1	0.00	0.00	1	VOLUME: 1749.38
7	Q0424289-MSE02	07	A	04/27/2021	0807		1^	X	X	+	+	+	$\vdash$	$\vdash$		ISE2	N1	0.00	0.00	1	VOLUME: 1676.76
8	9894288-MSE02	08	A	04/27/2021	0807	KT	$\vdash$	^	^	-	+	+	$\vdash$	+	7 101	1022	111			1 1	
10							H	-	-	H	+	$\pm$		+							-46
_	rnaround Time: 5 day	'S																			
				Ph. A.	Time	Receive	al Ess	. 70	farm	ağı eva		-	-	1	Date	Time	Shipping	Date /	Carrier	/ Airbill N	umber
Re	ilinguished by: (Sig	nature)		Date	_			_	igra	ature,				1	1 1						35 6311 6299
4				4/27/4	1500	Fed	X	,	_		_	_	2	L	1/27/21	1500					
						1	1	2	/					4	1/28/21	10.30	Received	by Labo	ratory:	(Signature	e, Date, Time) & condition
											10	usHy	Sen/								

# **Laboratory Analysis Report**

Job ID: 21041871



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:Brett WomackP.O.#.:J310000400-0015Client Address:1655 Grant Street, Suite 1200Date Received:04/23/2021 16:13City, State, Zip:Concord, California, 94520Sample Collected By:Kimberly Tom

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01 - 042021	4/20/2021 15:43	Cassette	21041871.01
MSE02 - 042021	4/20/2021 15:24	Cassette	21041871.02
MSE01 - 042121	4/21/2021 15:34	Cassette	21041871.03
MSE02 - 042121	4/21/2021 15:36	Cassette	21041871.04

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

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

ab-q210-0321

4/27/2021

Page 1 of 5 Report Number: RPT210427046



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

Date 4/27/2021

Job ID: 21041871

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	Client: Gilbane Project: HPNS Parcel E Phase II J310000400 At										attn: Brett Womack				
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Area/Person Flow Rate L/m Time Off Total Time (Liters) Fields Fibers F/mm										Analysis Date	Analyzed By
21041871.01	MSE01 - 042021	04/20/2021	Area	2			460	920	100	11.0	14.013	0.006		04/27/21	Habedi
21041871.02	MSE02 - 042021	04/20/2021	Area	2			454	908	100	12	15.287	0.006		04/27/21	Habedi
21041871.03	MSE01 - 042121	04/21/2021	Area	2			452	904	100	10.5	13.376	0.006		04/27/21	Habedi
21041871.04	MSE02 - 042121	04/21/2021	Area	2			466	932	100	9	11.465	0.005		04/27/21	Habedi

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



# **Sample Condition Checklist**

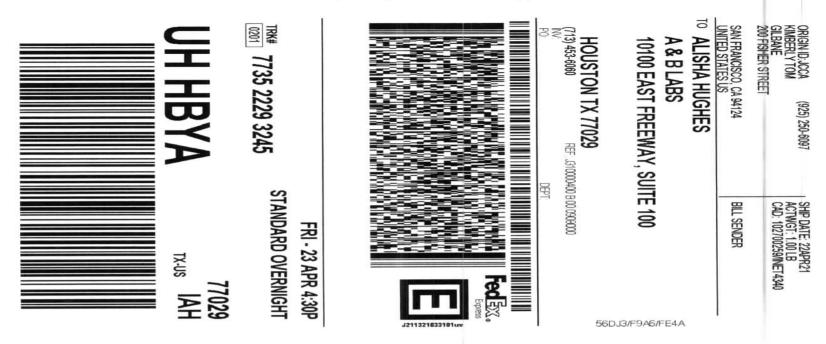
A&B	JobID: <b>21041871</b>	Date Received	: 04	/23/2021		Time I	Received: 4	:13PM		
Clien	t Name : <b>Gilbane</b>									
Temp	perature : 20.1°C	Sample pH:	n/a							
Ther	mometer ID : <b>102002320</b>	pH Paper ID :	n/a							
Pers	ervative :									
								•		
		Check	Point	s				Yes	No	N/A
1.	Cooler seal present and signed.							Х		
2.	Sample(s) in a cooler.								Х	
3.	If yes, ice in cooler.									Х
4.	Sample(s) received with chain-of-c	ustody.						Х		
5.	C-O-C signed and dated.							Х		
6.	Sample(s) received with signed sa	nple custody seal							Χ	
7.	Sample containers arrived intact. (	f no comment).						Х		
8.	Matrix Water Soil Liqu	iid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
0.				✓						]
9.	Sample(s) were received in approp	riate container(s).	•					Х		
10.	Sample(s) were received with prop	er preservative								Х
11.	All samples were logged or labeled							Х		
12.	Sample ID labels match C-O-C ID's	_						Х		
13.	Bottle count on C-O-C matches bott	les found.						Х		
14.	Sample volume is sufficient for ana	yses requested.						Х		
15.	Samples were received within the h	old time.						Х		
16.	VOA vials completely filled.									Х
17.	Sample accepted.							Х		
18	Has client been contacted about s	ub-out								Х
Com	ments : Include actions taken to res	olve discrepancies	/probl	em:						
								-		

Received by: CHendrix Check in by/date: VHernandez / 04/24/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane										Chain-O	f-Custody
Project Name and Number: Project Manager:	HPNS Parcel E			)0		_abora Addres		te. 100 C	ontact N	Jame:	Date: _4/22/2021 Page: 1 of _1
Site Location: Hunters Poir	it, San Francisc	o, CA 941	1	1 1		1	Houston TX 7702  Analysis:	9			
Job ID:21041	871 		(top)	(bottom)	ıers		Asbestos				
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Preservative: None Container Type: Filter				Flow Rate = 2 L/min   Special Instructions/Comments   Total Time (min)
MSE01-042021	4/20/2021	1543	NA	NA	1	AA	X				460 OIA
MSE02-042021	4/20/2021	1524	NA	NA	1	AA	X				454 02A 452 03A
MSE01-042121	4/21/2021	1534	NA	NA	1	AA	X				
MSE02-042121	4/21/2021	1536	NA	NA	1_	AA	X				466 OYA
											#
Sampled By: Kindow	-10-		1	Sample	er: 👍	- 1	1			Courier/Airbill No.: FedEx/	7735 2229 3245
Sampled by.	y a		—	Relinqui			perly To-	Date:	Time:	Received By/ Affiliation:	Date: Time:
Signature:											1
Special Instructions:				Finds	dy É	ed	-/ Ciilbae	4/22/21	apri	Conley the	4/2/4 1400 1/2921 1/0/3
Results to:											
Turnaround Time: Standard											
							Page 4 of 5			20.10	(0200232011)



#### After printing this label:

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

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

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11-May-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21041900

Dear Brett,

ALS Environmental received 8 samples on 30-Apr-2021 09:41 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

# R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Work Order Sample Summary

Work Order: 21041900

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	Hold
21041900-01	Q0424290-MSE01	Air		4/28/2021 07:51	4/30/2021 09:41	
21041900-02	9894289-MSE01	Air		4/28/2021 07:51	4/30/2021 09:41	
21041900-03	Q0424291-MSE02	Air		4/28/2021 07:31	4/30/2021 09:41	
21041900-04	9894290-MSE02	Air		4/28/2021 07:31	4/30/2021 09:41	
21041900-05	Q0424292-MSE01	Air		4/29/2021 08:14	4/30/2021 09:41	
21041900-06	9894291-MSE01	Air		4/29/2021 08:14	4/30/2021 09:41	
21041900-07	Q0424293-MSE02	Air		4/29/2021 08:00	4/30/2021 09:41	
21041900-08	9894292-MSE02	Air		4/29/2021 08:00	4/30/2021 09:41	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21041900

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21041900

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041900-01A **Collection Date:** 4/28/2021 7:51:00 AM

Client Sample ID: Q0424290-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1762730 Analyst: SRL

Date Analyzed: 5/4/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 28 1.0 0.016

**Lab ID:** 21041900-02A **Collection Date:** 4/28/2021 7:51:00 AM

Client Sample ID: 9894289-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1722950</b>	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	59	1.0	0.034	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1722950</b>	Analyst: AZ
Date Analyzed: 5/6/2021 12:24		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	150	25	0.000088	
Lead	ND	25	<0.000015	
Manganese	32	25	0.000019	

**Lab ID:** 21041900-03A **Collection Date:** 4/28/2021 7:31:00 AM

Client Sample ID: Q0424291-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1716160	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	38	1.0	0.022	

Client: Gilbane Company Work Order: 21041900

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041900-04A **Collection Date:** 4/28/2021 7:31:00 AM

Client Sample ID: 9894290-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1651250	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	40	1.0	0.024	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1651250</b>	Analyst: AZ
Date Analyzed: 5/6/2021 12:28		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	430	25	0.00026	
Lead	ND	25	<0.000015	
Manganese	70	25	0.000042	

**Lab ID:** 21041900-05A **Collection Date:** 4/29/2021 8:14:00 AM

Client Sample ID: Q0424292-MSE01 Matrix: AIR

Analyses

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1715620	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	36	1.0	0.021	

**Lab ID:** 21041900-06A **Collection Date:** 4/29/2021 8:14:00 AM

Client Sample ID: 9894291-MSE01 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): <b>1797380</b>	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	70	1.0	0.039	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1797380</b>	Analyst: AZ
Date Analyzed: 5/6/2021 12:32		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	230	25	0.00013	
Lead	ND	25	<0.000014	
Manganese	65	25	0.000036	

Client: Gilbane Company Work Order: 21041900

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21041900-07A **Collection Date:** 4/29/2021 8:00:00 AM

Client Sample ID: Q0424293-MSE02 Matrix: AIR

**Analyses** 

 PM : PM10 40CFR 50 APPDIX J
 Method: PM10 Air Volume (L): 1809820 Analyst: SRL

 Date Analyzed: 5/4/2021
 Reporting Limit mg/sample mg/sample mg/m3

 Particulate as PM10
 16
 1.0
 0.0090

**Lab ID:** 21041900-08A **Collection Date:** 4/29/2021 8:00:00 AM

Client Sample ID: 9894292-MSE02 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1733710	Analyst: SRL
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	41	1.0	0.024	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>1733710</b>	Analyst: AZ
Date Analyzed: 5/6/2021 12:35		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	770	25	0.00044	
Lead	ND	25	<0.000014	
Manganese	29	25	0.000017	

**Client:** 

ALS Environmental Date: 11-May-21

QC BATCH REPORT

Work Order: 21041900

**Project:** HPNS Parcel E; J310000400-016

Gilbane Company

Batch ID: R191694	Instrument ID: E	BAL2		Method	: TSP							
DUP	Sample ID: <b>21041778</b>	3-02A DUP				ι	Jnits: <b>mg/</b> s	sample	Analysis	Date: <b>5/4/</b>	/2021	
Client ID:		Run ID	: BAL2_2	210504A		Se	qNo: <b>246</b> :	3334	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended pa	rticulate	8.66	1.0	0		0	0		8.61	0.579	20	
DUP	Sample ID: 21041900	)-07A DUP				ι	Jnits: <b>mg/</b> :	sample	Analysis	Date: <b>5/4/</b>	/2021	
Client ID: <b>Q042429</b>	3-MSE02	Run ID	: BAL2_2	210504A		Se	qNo: <b>246</b> :	3350	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	)	16.68	1.0	0		0	0		16.29	2.37	20	
The following sam	ples were analyzed in th	is batch:	21	041900-01A 041900-04A 041900-07A	. 2	1041	900-02A 900-05A 900-08A		041900-03A 041900-06A			

Client: Gilbane Company

**Work Order:** 21041900

**Project:** HPNS Parcel E; J310000400-016

Batch ID: <b>74355</b>	Instrument ID: ICP1		Metho	od: <b>E12</b>							
MBLK	Sample ID: MBLK-74355-743	55			ı	Units: µg/s	ample	Analysi	s Date: <b>5/6/</b>	/2021 11:4	2 AM
Client ID:	R	un ID: ICP1	_210506A		Se	eqNo: <b>245</b> 9	9757	Prep Date: 5/5/	/2021	DF: <b>1</b>	
Analyte	Resu	ult PG	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper	NI	D 10	00								
Lead	NI	D 2	25								
Manganese	NI	D 10	00								
LCS	Sample ID: LCS-74355-74355	5			ı	Units: µg/s	ample	Analysi	s Date: <b>5/6/</b>	/2021 11:4	6 AM
Client ID:	R	un ID: ICP1	_210506A		Se	eqNo: <b>245</b> 9	9758	Prep Date: 5/5/	/2021	DF: <b>1</b>	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Resu	ılt PC	L SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper	383.	5 10	00 450		0	85.2	75-125	0	)		
Lead	429.	9 2	25 450		0	95.5	75-125	0	)		
Manganese	390.	9 10	00 450		0	86.9	75-125	0	)		
LCSD	Sample ID: <b>LCSD-74355-743</b>	55			ı	Units: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 11:4	9 AM
Client ID:	R	un ID: ICP1	_210506A		Se	eqNo: <b>245</b> 9	9759	Prep Date: 5/5/	/2021	DF: <b>1</b>	
Analyte	Resu	ult PG	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper	401.	4 10	00 450		0	89.2	75-125	383.5	4.56	20	
Lead	446.	7 2	25 450		0	99.3	75-125	429.9	3.84	20	
Manganese	407.	3 10	00 450		0	90.5	75-125	390.9	4.1	20	
MS	Sample ID: 21041778-02A MS	3			ı	Units: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 11:5	7 AM
Client ID:	R	un ID: ICP1	_210506A		Se	eqNo: <b>245</b> 9	9761	Prep Date: 5/5/	/2021	DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Resu	ult PC	L SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper	460.	8 10	00 450	53.	46	90.5	75-125	0	)		
Lead	482.	·	25 450	4.3	76	106	75-125	0	1		
Manganese	414.	9 10	00 450	5.8	23	90.9	75-125	0	)		
MSD	Sample ID: 21041778-02A MS	SD			ı	Units: µg/s	ample	Analysi	s Date: <b>5/6/</b>	2021 12:0	1 PM
Client ID:	R	un ID: ICP1	_210506A		Se	eqNo: <b>245</b> 9	9762	Prep Date: 5/5/	/2021	DF: <b>1</b>	
Analyte	Resu	ılt PC	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper	462.			53.	46	90.9	75-125	460.8	0.39	20	
Lead	464.		25 450	4.3		102	75-125	482.4		20	
Manganese	416.			5.8		91.3	75-125	414.9			
The following sam	ples were analyzed in this batch	:	21041900-02 21041900-08		1041	1900-04A	21	041900-06A			

**Client:** Gilbane Company

**QUALIFIERS, Project:** HPNS Parcel E; J310000400-016 **ACRONYMS, UNITS** 

WorkOrder: 21041900

#### Qualifier **Description** Value exceeds Regulatory Limit Not accredited a В Analyte detected in the associated Method Blank above the Reporting Limit Е Value above quantitation range Н Analyzed outside of Holding Time Analyte detected below quantitation limit Not offered for accreditation n ND Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked O P Dual Column results percent difference > 40% R RPD above laboratory control limit S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL **Acronym** Description DUP Method Duplicate Е EPA Method LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MBLK Method Blank MDL Method Detection Limit MQL Method Quantitation Limit MS Matrix Spike MSD Matrix Spike Duplicate PDS Post Digestion Spike PQL Practical Quantitaion Limit SDL Sample Detection Limit SW SW-846 Method **Units Reported** Description

μg/sample mg/sample

# ALS Environmental

GILBANE-WALNUTCREEK

Client Name:

### Sample Receipt Checklist

Date/Time Received:

30-Apr-21 09:41

Work Order:	<u>210419</u>	<u>00</u>				Received by	<b>/</b> :	SN	<u>H</u>			
Checklist comple		Stephanie H arring	ton	30-Apr-21	_	Reviewed by:	R 0b I	√ieman <sub>re</sub>			04	-May-21 Date
Matrices: Carrier name:	<u>FedEx</u>											
Shipping contair	ner/coole	r in good condition?		Yes	<b>V</b>	No 🗌	Not	Present				
Custody seals ir	ntact on s	hipping container/cooler?	•	Yes	<b>✓</b>	No 🗌	Not	Present				
Custody seals ir	ntact on s	ample bottles?		Yes	<b>✓</b>	No 🗌	Not	Present				
Chain of custody	y present	?		Yes	<b>✓</b>	No 🗌						
Chain of custody	y signed	when relinquished and re	ceived?	Yes	<b>✓</b>	No 🗌						
Chain of custody	y agrees	with sample labels?		Yes	<b>✓</b>	No 🗌						
Samples in prop	er contai	ner/bottle?		Yes	<b>V</b>	No 🗆						
Sample containe	ers intact	?		Yes	<b>V</b>	No 🗆						
Sufficient sampl	e volume	for indicated test?		Yes	<b>V</b>	No 🗆						
All samples rece	eived with	in holding time?		Yes	<b>V</b>	No 🗌						
Container/Temp	Blank te	mperature in compliance	?	Yes	<b>V</b>	No 🗌						
Sample(s) receir				Yes		No 🗸						
Cooler(s)/Kit(s):								I.				
Date/Time samp		_										
		zero headspace?		Yes				vials subn	nitted	✓		
Water - pH acce	eptable up	oon receipt?		Yes		_		<b>✓</b>				
pH adjusted? pH adjusted by:				Yes_		No L	N/A	✓				
Login Notes:									•			
====	===	======	=====	====	==	====	===	====		====	===	===
Client Contestos	<b>1</b> .		Data Contacted			Dornan	Contacte	d.				
Client Contacted	ı.		Date Contacted:			Person	Contacte	eu:				
Contacted By:			Regarding:									
Comments:												
CorrectiveAction	n:									SPC	Page	1 of 1

### **CHAIN-OF-CUSTODY** RECORD

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2

Gilbane Federal

1655 Grant Street, Suite 1200, Concord, CA 94520

Laboratory: ALS Laboratory Group, Cincinnati, OH

COC# KT042921



Event: Parcel E Phase 2 Air

Monitoring

Pro	ject Number: J310000400					PO	C:													Monitori	ing
WB	S Code: J310000400-016					Shi	p to:	: 43	88 GI	endale	e Milfo	ord Rd	, Blue	Ash, C	H 452	242					
					_			_		-	_		_		. 1						
Col	mments:													Co	_	atrix					
														A	Alı	r					
									П					Code	Conta	iner/Preservativ	ve				
									1 1		1			1	1x 25	0-mL Plastic, 4	Degrees C				
														1	1x En	velope, None					
					8				1 1												
					Method				1 1												
Equ	ulpment:				est M	CAAIR - Air PM10	Mn Cu	Air TSP													
					Analytical Test	Air	Air Pb Mn	Ā	11												
					2	E E	¥	8	Ιİ												
					Ang	₹	E12	N0500													
	Event: Parcel E Phase 2 Air I	Monitorin	ıg			1	1	1													
		T			Samp						T						Sample	Depth	(ft bgs)		
	Sample ID	Matrix	Date	Time	Init.										Loca	tion ID	Туре	Top -	Bottom	Cooler	Comments
1	Q0424290-MSE01	Α	04/28/2021	0751	КТ	Х		Г	$\Box$						AM	1\$E1	N1	0.00	0.00	1	VOLUME: 1762.73
2	9894289-MSE01	A	04/28/2021	0751	KT	T	Х	X	$\Box$				T		AM	ISE1	N1	0.00	0.00	1	VOLUME: 1722.95
3	Q0424291-MSE02	Α	04/28/2021	0731	KT	Х		Г	П						AM	1SE2	N1	0.00	0.00	1	VOLUME: 1716.16
4	9894290-MSE02	A	04/28/2021	0731	KT		Х	X							AM	ISE2	N1	0.00	0.00	1	VOLUME: 1651.25
5	Q0424292-MSE01	Α	04/29/2021	0814	KT	Х			П						AM	/ISE1	N1	0.00	0.00	1	VOLUME: 1715.62
6	9894291-MSE01	Α	04/29/2021	0814	KT		X	Х							AM	/ISE1	N1	0.00	0.00	1	VOLUME: 1797.38
7	Q0424293-MSE02	Α	04/29/2021	0800	KT	Х									AM	ISE2	N1	0.00	0.00	1	VOLUME: 1809.82
8	9894292-MSE02	Α	04/29/2021	0800	KT		X	Х							AM	/ISE2	N1	0.00	0.00	1	VOLUME: 1733.71
9	<u></u>																	5			
10													$\top$								2
Tu	rnaround Time: 5 days																				
-	No model and have the management		Data	Time	Danahira	al las	. 10	· ·		,			_	Date		Time	Shipping	Data / (	"arriar /	Alebiii k	frimhar
He	elinquished by: (Signature)		Date	TIME	Receive	u by	: (3	ign	ulure				+	Dat	7	THE					735 8759 5552
9	16		1/29/21	1400	Fed	4		_	_					1/29/	4	ayı	Simpping D	ale. 4/2:	1/2021)	reuex /	733 6703 0002
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1				1												1	100		1	~\ /	^ 1

# **Laboratory Analysis Report**

Job ID: 21042143



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:Brett WomackP.O.#.:J310000400-0015Client Address:1655 Grant Street, Suite 1200Date Received:04/28/2021 16:00City, State, Zip:Concord, California, 94520Sample Collected By:Kimberly Tom

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-042221	4/22/2021 15:22	Cassette	21042143.01
MSE02-042221	4/22/2021 15:19	Cassette	21042143.02
MSE01-042621	4/26/2021 15:42	Cassette	21042143.03
MSE02-042621	4/26/2021 15:50	Cassette	21042143.04

Released By: Senthilkumar Sevukan

Title: Vice President Operations

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

ab-q210-0321

5/3/2021

Page 1 of 4 Report Number: RPT210503049

Analyst:



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

Date 5/3/2021

Job ID: 21042143

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	9		Project: HPI	NS Parcel E I	Phase II :	31000040	00				ı	Attn: Br	ett Woma	ck	
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
21042143.01	MSE01-042221	04/22/2021	Area	2			419	838	100	15.5	19.745	0.009		05/03/21	Habedi
21042143.02	MSE02-042221	04/22/2021	Area	2			427	854	100	12.5	15.924	0.007		05/03/21	Habedi
21042143.03	MSE01-042621	04/26/2021	Area	2			437	874	100	10.5	13.376	0.006		05/03/21	Habedi
21042143.04	MSE02-042621	04/26/2021	Area	2			463	926	100	13.5	17.197	0.007		05/03/21	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>21042143</b>	Date Receive	d: <b>04</b>	/28/2021		Time	Received :	4:00PM		
Clien	t Name : <b>Gilbane</b>									
Temp	perature : 21.4°C	Sample pH:	N/A	1						
Ther	mometer ID : <b>102002320</b>	pH Paper ID :	N/A	<u> </u>						
Pers	ervative :									
		Chec	k Point	ts				Yes	No	N/A
1.	Cooler seal present and signed.							Х		
2.	Sample(s) in a cooler.								Х	
3.	If yes, ice in cooler.									Х
4.	Sample(s) received with chain-of-co	ıstody.						Х		
5.	C-O-C signed and dated.							Х		
6.	Sample(s) received with signed sample	nple custody sea	ıl.						Χ	
7.	Sample containers arrived intact. (1	f no comment).						х		
8.	Matrix Water Soil Liqu	id Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
0.				<b>V</b>						1
9.	Sample(s) were received in appropr	iate container(s	).					Х		
10.	Sample(s) were received with prop	er preservative								Х
11.	All samples were logged or labeled.							Х		
12.	Sample ID labels match C-O-C ID's							х		
13.	Bottle count on C-O-C matches bott	les found.						Х		
14.	Sample volume is sufficient for ana	yses requested.						Х		
15.	Samples were received within the h	old time.						Х		
16.	VOA vials completely filled.									Х
17.	Sample accepted.							Х		
18	Has client been contacted about s	ıb-out								Х
Com	ments : Include actions taken to reso	lve discrepancie	s/prob	em:						
C/S or	box.									

Received by : JMontemayor Check in by/date : JMontemayor / 04/28/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane													Chain-O	f-Cust	ody	,
Project Name and Number:	HPNS Parcel	E Phase II J.	3100004	001	_	Labor	atory N	lame:	A&B	Labs				Date: 4/	27/2021	
Project Manager;						Addre	- 8			y Ste. 1	00 0	Contact	Name:	— Page: 1	of 1	
Site Location: Hunters Poi	nt, San Francis	co, CA 941	124		_				n TX 7				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rage. <u>1</u>	0i _i	
				1		1		Anal	ysis:							
			Sample Depth (top)	Sample Depth (bottom)	No. of Containers	fatrix	Asbestos						* Job ID::	2104214 		
Sample ID	Date	Time	Sample I	Sample D	No. of Co	Sample Matrix	Non	iner Ty						Flow Rate	ictions/Cor	
MSE01-042221 ()	4/22/2021	1522	NA	NA	1	AA	Х				-			Total Time	(min)	
MSE02-042221 02A			NA	NA	1	AA	X							419		
MSE01-042621 03A	4/26/2021		NA	NA	1	AA	X							437		
MSE02-042621 (4	4/26/2021	1550	NA	NA	1	AA	X							463		
Sampled By: K. Tow			1	Sample	er: L	-							Courier/Airbill No.: FedEx/	i		146
Signature: 4			R	Relinquis	hed B		tion:			Dat	te: T	lime:	Received By/ Affiliation:	7735 6307 8560	Date:	T
Special Instructions: Nav			- L				10				222	MARCASCACI	Trosorroz by Trimitation.		Date.	Time:
			_	Kim	dely	600	Fed	il ba	he	4/2	27/21/11	500	Fed Ex	4-	7821	1500
Send Results to:													/			
Turnaround Time: Standard													21.4-6	10 ames	0	

### **Laboratory Analysis Report**

Job ID: 21050040



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:Brett WomackP.O.#.:J310000400-0015Client Address:1655 Grant Street, Suite 1200Date Received:05/03/2021 14:20City, State, Zip:Concord, California, 94520Sample Collected By:Kimberly Tom

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-042721	4/27/2021 15:54	Cassette	21050040.01
MSE02-042721	4/27/2021 15:42	Cassette	21050040.02
MSE01-042821	4/28/2021 15:37	Cassette	21050040.03
MSE02-042821	4/28/2021 15:12	Cassette	21050040.04

Released By: Senthilkumar Sevukan

Title: Vice President Operations

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

ab-q210-0321

5/4/2021

Page 1 of 4 Report Number: RPT210504065

Analyst:



#### ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 5/4/2021

Job ID: 21050040

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPI	NS Parcel E I	Phase II I	31000040	00				į	Attn: Br	ett Woma	ck	
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
21050040.01	MSE01-042721	04/27/2021	Area	2			453	906	100	10.5	13.376	0.006		05/04/21	Habedi
21050040.02	MSE02-042721	04/27/2021	Area	2			455	910	100	8	10.191	0.004		05/04/21	Habedi
21050040.03	MSE01-042821	04/28/2021	Area	2			482	964	100	12	15.287	0.006		05/04/21	Habedi
21050040.04	MSE02-042821	04/28/2021	Area	2			438	876	100	9.0	11.465	0.005		05/04/21	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>21050040</b>	Date Received : <b>05/0</b> 3	3/2021	Time F	Received: 2	2:20PM		
Clien	t Name : <b>Gilbane</b>							
Tem	perature : 23.1°C	Sample pH: N/A						
Ther	mometer ID : <b>102002320</b>	pH Paper ID : N/A						
Pers	servative :							
		<b>Check Points</b>				Yes	No	N/A
1.	Cooler seal present and signed.					Х		
2.	Sample(s) in a cooler.						Х	
3.	If yes, ice in cooler.							Х
4.	Sample(s) received with chain-of-c	ustody.				Х		
5.	C-O-C signed and dated.					Х		
6.	Sample(s) received with signed sa	mple custody seal.					Х	
7.	Sample containers arrived intact. (	If no comment).				Х		
8.	Matrix Water Soil Liq	uid Sludge Solid Ca	assette Tube	Bulk	Badge	Food	Oth	
0.								]
9.	Sample(s) were received in approp	riate container(s).				Х		
10.	Sample(s) were received with prop	er preservative						Х
11.	All samples were logged or labeled	1				Х		
12.	Sample ID labels match C-O-C ID's					Х		
13.	Bottle count on C-O-C matches bot	tles found.				Х		
14.	Sample volume is sufficient for ana	lyses requested.				Х		
15.	Samples were received within the	nold time.				Х		
16.	VOA vials completely filled.							Х
17.	Sample accepted.					Х		
18	Has client been contacted about s	ub-out						Х
Com	ments : Include actions taken to res	olve discrepancies/problem	:					

Received by : JMontemayor Check in by/date : JMontemayor / 05/03/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane											Chain-O	f-Cust	ody	,
	HPNS Parcel F			00		_abora		e: A&B L 0 East Fwy ston TX 770	Ste. 100	Contact	Name:	Date: _4/2	9/2021 of _ <u>1</u>	
							A	nalysis:						
			Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Spestos Asbestos Preserval	ive:			* Job ID	:2105004		'n
Sample ID	Date	Time	Sample	Sample	No. of	Sample	None Container Filter	Type:				Special Instru	ctions/Co	
MSE01-042721 0V7	4/27/2021	1554	NA	NA	1	AA	Х					453		
MSE02-042721 07A	4/27/2021	1542	NA	NA	1	AA	X					455		
MSE01-042821 03A	4/28/2021	1537	NA	NA	1	AA	X					482		
MSE02-042821 ACA	4/28/2021	1512	NA	NA	1	AA   	X					438		
						 						46		
Sampled By: K. Torr				Sample	er: k	int	redi -	1_			Courier/Airbill No.: FedEx/	7735 8757 6958		
Signature:			F	Relinquis				-	Date:	Time:	Received By/ Affiliation:		Date:	Time:
Special Instructions:	•			KM	sely	Fee	PX Cill	oe_	४   ४   य	1400	Fed Go	5-3	4/29/2 5 C 1	142
Send Results to:														
Turnaround Time: Standard							p,	ige 4 of 4			102m 134	23.1. C		



12-May-2021

Brett Womack Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Re: HPNS Parcel E; J310000400-016 Work Order: 21050206

Dear Brett,

ALS Environmental received 4 samples on 05-May-2021 11:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

## R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

#### **Report of Laboratory Analysis**

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Work Order Sample Summary

Work Order: 21050206

		35.4	7D 3.7 3		D ( D )	**
Lab Samp ID	Client Sample ID	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received	<u>Hold</u>
21050206-01	Q0424294-MSE01	Air		4/29/2021 13:41	5/5/2021 11:45	
21050206-02	9894293-MSE01	Air		4/29/2021 13:41	5/5/2021 11:45	
21050206-03	Q0424295-MSE02	Air		4/29/2021 13:56	5/5/2021 11:45	
21050206-04	9894294-MSE02	Air		4/29/2021 13:56	5/5/2021 11:45	

**Client:** Gilbane Company

Project: HPNS Parcel E; J310000400-016 Case Narrative

**Work Order:** 21050206

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

Client: Gilbane Company Work Order: 21050206

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21050206-01A **Collection Date:** 4/29/2021 1:41:00 PM

Client Sample ID: Q0424294-MSE01 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 384260 Analyst: SRL

Date Analyzed: 5/11/2021 Reporting Limit

mg/sample mg/sample mg/m3

Particulate as PM10 3.1 1.0 0.0080

**Lab ID:** 21050206-02A **Collection Date:** 4/29/2021 1:41:00 PM

Client Sample ID: 9894293-MSE01 Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 384860	Analyst: SRL
Date Analyzed: 5/11/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	5.9	1.0	0.015	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 384860	Analyst: SRL
Date Analyzed: 5/12/2021 12:08		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	26	25	0.000067	
Lead	ND	25	<0.00065	
Manganese	ND	25	<0.00065	

**Lab ID:** 21050206-03A **Collection Date:** 4/29/2021 1:56:00 PM

Client Sample ID: Q0424295-MSE02 Matrix: AIR

**Analyses** 

PM: PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 378600	Analyst: SRL
Date Analyzed: 5/11/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	ND	1.0	<0.0026	

Note:

Client: Gilbane Company Work Order: 21050206

**Project:** HPNS Parcel E; J310000400-016

**Analytical Results** 

**Lab ID:** 21050206-04A **Collection Date:** 4/29/2021 1:56:00 PM

Client Sample ID: 9894294-MSE02 Matrix: AIR

**Analyses** 

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 311200	Analyst: SRL
Date Analyzed: 5/11/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	2.7	1.0	0.0085	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): <b>311200</b>	Analyst: SRL
Date Analyzed: 5/12/2021 12:20		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Copper	ND	25	<0.00080	
Lead	ND	25	<0.00080	
Manganese	ND	25	<0.00080	

Note:

**Client:** Gilbane Company

**Project:** HPNS Parcel E; J310000400-016

QC BATCH REPORT Work Order: 21050206

Batch ID: <b>R191739</b>	Instrument ID: BAI	L2		Method	: PM10								
DUP	Sample ID: <b>21050206-0</b>	1A DUP				L	Jnits: <b>mg/</b> s	sample		Analysis	Date: <b>5/11</b>	/2021	
Client ID: Q0424294	-MSE01	Run ID:	BAL2_2	210511A		Sec	qNo: <b>246</b> 4	1217	Prep Da	ate:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Va	Ref lue	%RPD	RPD Limit	Qual
Particulate as PM10		3.03	1.0	0		0	0			3.08	1.64	20	
DUP	Sample ID: <b>21050206-0</b> 2	2a DUP				L	Jnits: <b>mg/</b> s	sample		Analysis	Date: <b>5/11</b>	/2021	
Client ID: 9894293-I	MSE01	Run ID:	BAL2_2	210511A		Sec	qNo: <b>246</b> 4	1232	Prep Da	ate:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Va		%RPD	RPD Limit	Qual
Analyte  Total suspended part	ticulate	Result 6.11	PQL	SPK Val	_	0		Control		Ref	%RPD 2.99		Qual

**Client:** Gilbane Company

**Work Order:** 21050206

**Project:** HPNS Parcel E; J310000400-016

	Instrument ID: ICF	21		Metho	d: <b>E12</b>							
MBLK	Sample ID: MBLK-7449	95-74495				U	nits: µg/s	ample	Analysis	Date: 5/12	2/2021 11:	57 AM
Client ID:		Run ID	: ICP1_2	10512A		SeqNo: <b>2464238</b>			Prep Date: 5/11	DF: <b>1</b>		
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		ND	100									
Lead		ND	25									
Manganese		ND	100									
LCS	Sample ID: LCS-74495	-74495				U	nits: µg/s	ample	Analysis	Date: 5/12	2/2021 12:	01 PM
Client ID:		Run ID	: ICP1_2	10512A		Seq	No: <b>246</b> 4	4239	Prep Date: 5/11	/2021	DF: <b>1</b>	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		420.3	100	450		0	93.4	75-125	0			
Lead		424.2	25	450		0	94.3	75-125	0			
Manganese		418.9	100	450		0	93.1	75-125	0			
LCSD	Sample ID: LCSD-7449	95-74495				U	nits: µg/s	sample	Analysis	Date: <b>5/12</b>	2/2021 12:	05 PM
Client ID:		Run ID	: ICP1_2	10512A			No: <b>246</b> 4	-	Prep Date: 5/11	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Copper		434.8	100	450		0	96.6	75-125	420.3	3.38	20	
Lead		439.5	25	450		0	97.7	75-125	424.2	3.53	20	
Manganese		435.2	100	450		0	96.7	75-125	418.9	3.81	20	
MS	Sample ID: 21050206-0	D2A MS				U	nits: µg/s	ample	Analysis	Date: <b>5/12</b>	2/2021 12:	12 PM
Client ID: <b>9894293-M</b>	SE01	Run ID	: ICP1_2	10512A			No: <b>246</b> 4	-	Prep Date: 5/11	DF: <b>1</b>		
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		439.3	100	450	25.	95	91.9	75-125	0			
Lead		435.9	25	450	3.8	82	96	75-125	0			
Manganese		422.6	100	450	6.5	88	92.5	75-125	0			
MSD	Sample ID: 21050206-0	D2A MSD				U	nits: µg/s	ample	Analysis	Date: <b>5/12</b>	2/2021 12:	16 PM
Client ID: <b>9894293-M</b>			: ICP1_2	10512A			No: <b>246</b> 4	•	Prep Date: 5/11		DF: <b>1</b>	
			_		SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Copper		438.9	100	450	25.	95	91.8	75-125	439.3	0.0922	20	
• • • • • • • • • • • • • • • • • • • •		428	25	450	3.8		94.2	75-125	435.9	1.83	20	
Lead				450		88	91.1	75-125	422.6	1.45		

**Client:** Gilbane Company **QUALIFIERS**,

**Project:** HPNS Parcel E; J310000400-016 ACRONYMS, UNITS

WorkOrder: 21050206

> μg/sample mg/sample

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
О	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
<b>Units Reported</b>	Description

QF Page 1 of 1

## ALS Environmental

### Sample Receipt Checklist

Client Name:	GILBANE-WALNUTCREEK			Date/Time	Received:	<u>05-May-2</u>	<u>1 11:45</u>	
Work Order:	21050206			Received b	y:	<u>RDN</u>		
Checklist comple	eted by: J an Wilcox  eSignature	06	-May-21	Reviewed by:	R ob Nien	nan		07-May-21
Matrices: Carrier name:	air FedEx		Dute		oo igraatar o			Date
Shipping contain	ner/cooler in good condition?		Yes 🗸	No 🗌	Not Prese	ent 🗌		
Custody seals in	ntact on shipping container/cooler?	)	Yes 🗸	No 🗌	Not Prese	ent 🗌		
Custody seals in	ntact on sample bottles?		Yes	No 🗌	Not Prese	ent 🗹		
Chain of custody	y present?		Yes 🗸	No 🗌				
Chain of custody	y signed when relinquished and red	ceived?	Yes 🗸	No 🗌				
Chain of custody	y agrees with sample labels?		Yes 🗸	No 🗌				
Samples in prop	per container/bottle?		Yes 🗸	No 🗌				
Sample containe	ers intact?		Yes 🗸	No 🗆				
Sufficient sample	e volume for indicated test?		Yes 🗸	No 🗌				
All samples rece	eived within holding time?		Yes 🗸	No 🗌				
Container/Temp	Blank temperature in compliance	?	Yes 🗸	No 🗌				
Sample(s) receive Temperature(s)/	ved on ice? Thermometer(s):		Yes	No 🗸				
Cooler(s)/Kit(s):								
•	ole(s) sent to storage:		Va.	N.	Na VOA dala	- 1 10 - d		
	als have zero headspace?		Yes 🗌	No 🗆	No VOA vials	submitted	✓	
	eptable upon receipt?		Yes □	No L	N/A			
pH adjusted? pH adjusted by:			Yes	No 📙	N/A 🗸			
Login Notes:								
						:		
Client Contacted	d:	Date Contacted:		Person	Contacted:			
Contacted By:		Regarding:						
Comments:								
CorrectiveAction	n:						CDC 5	logo 1 of 1

# CHAIN-OF-CUSTODY RECORD

Project Number: J310000400

Gilbane Federal

21050206

POC:

COC # KT050421



Monitoring

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Laboratory: ALS Laboratory Group, Cincinnati, OH Event: Parcel E Phase 2 Air

WB:	5 Code: J31000040	0-016					Ship	to:	4388	Gle	ndale	Milfo	rd Rd	., Blu	је А	sh, OH 4524	12					
	nments:					Analytical Test Method		7 7777	N0500 - Air TSP							1 1x 250-	trix net/Preservatin ml. Plastic, 4 elope, None					
	Event: Parcel E Ph	ago ? Air l	Vlanitovis	24		An			Ž 1													
	Sample ID	ase 2 Air i	Matrix		Time	Samp Init.		1								Locati	on ID	Sample Type	~~~~~~~	(ft bgs) Bottom	Cooler	Comments
1	Q0424294-MSE01	Cí	Α	04/29/2021	1341	KT	Х					1		_		AMS	SE1	N2	0.00	0.00	1	VOLUME: 384.26
2	9894293-MSE01	62	Α	04/29/2021	1341	KT		Х	Х	1			1	Ť	T	AMS	SE1	N2	0.00	0.00	1	VOLUME: 384.86
3	Q0424295-MSE02	50	A	04/29/2021	1356	KT	х	1		$\top$		1		1		AMS	SE2	N2	0.00	0.00	1	VOLUME: 378.60
4	9894294-MSE02	04	Α	04/29/2021	1356	KT	$\neg$	Х	X		$\top$					AMS	SE2	N2	0.00	0.00	1	VOLUME: 311.20
5										1												
6	10														1							
7								=		4												
8														T								
9																						
10																						
Tur	naround Time: 5 d	ays														-						
Det	finantahari bu (6	[avandaran]		S-la	722	[D	1 1	(01		a a more à						Doto	Time	Shipping	Date (d	Savelar I	A labili N	
me							elved by: (Signature)						Date Time			Shipping Da						
5/4/21 /500 kg					led	Kd 6x								Y 21	1200							
						2	22							51	5/21	11:45		1 1		//*\t	- Data 7510	
										1/	1	iš l <sub>e</sub> ly	0	j				received b	y Labo	ratory: (	Signatur	e, Date, Time) & condition
										<i>W</i>	in the	13 tely						H				

### **Laboratory Analysis Report**

Job ID: 21050430



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

1655 Grant Street, Suite 1200

Client Name:GilbaneTotal Number of Pages:4Attn:Brett WomackP.O.#.:J310000400-0015

City, State, Zip: Concord, California, 94520 Sample Collected By: Kim Tom

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

Client Address:

Report To:

 Client Sample ID
 Sample Collection Date & Time
 Matrix
 A&B Job Sample ID

 MSE01-042921
 4/29/2021 13:22
 Cassette
 21050430.01

MSE02-042921 4/29/2021 13:27 Cassette 21050430.02

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

Date Received:

05/06/2021 12:30

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

ab-q210-0321

5/11/2021

Page 1 of 4 Report Number: RPT210511052



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

Date 5/11/2021

Job ID: 21050430

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	е		Project: HPI	NS Parcel E	Phase II :	31000040	00				ı	Attn: Brett Womack				
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)		Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By	
21050430.01	MSE01-042921	04/29/2021	Area	2			301	602	100	11.0	14.013	0.009		05/11/21	Habedi	
21050430.02	MSE02-042921	04/29/2021	Area	2			324	648	100	9.0	11.465	0.007		05/11/21	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>21050430</b>	Date Receive	ed : <b>0</b> !	5/06/2021		Time	Received :	12:30PM								
Clien	t Name : <b>Gilbane</b>															
Temp	perature : <b>20.2-0.1cf=20.1°C</b>	Sample pH :	N/	A												
Ther	mometer ID : <b>1709629</b>	pH Paper ID	: N/	A												
Pers	ervative :															
		Che	ck Poir	nts				Yes	No	N/A						
1.	Cooler seal present and signed.	Х														
2.	2. Sample(s) in a cooler.															
3.	If yes, ice in cooler.	Х														
4.	4. Sample(s) received with chain-of-custody.															
5.	5. C-O-C signed and dated.															
6.	Sample(s) received with signed sample		Х													
7.	Sample containers arrived intact. (1	Х														
8.	Matrix Water Soil Liqu	Food	Oth	er												
0.	·			~												
9.	Sample(s) were received in appropr	iate container(	s).					Х								
10.	Sample(s) were received with prop	er preservative								Х						
11.	All samples were logged or labeled.							Х								
12.	Sample ID labels match C-O-C ID's							Х								
13.	Bottle count on C-O-C matches bott	les found.						Х								
14.	Sample volume is sufficient for ana	yses requested						Х								
15.	Samples were received within the h	old time.						Х								
16.	VOA vials completely filled.									Х						
17.	Sample accepted.							Х								
	18 Has client been contacted about sub-out															
18		ib out	Comments : Include actions taken to resolve discrepancies/problem:													
Com	ments : Include actions taken to reso		ies/prol	olem:												
Com			ies/prol	olem:												

Received by : JMontemayor Check in by/date : JMontemayor / 05/06/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

<b>G</b> ilbane												Chain-C	f-Cus	tody	
Project Name and Number:  Project Manager:  Site Location: Hunters Poin	HPNS Parcel E			00		abora.		0100 I	A&B L East Fwy n TX 770	Ste. 100	Contact N	Name:	Date: _ Page: <u>1</u>	5/4/2021 _of _1_	_
			pth (top)	Sample Depth (bottom)	ntainers	atrix	Asbestos	Analy	ysis:			* Job ID:	210504 	30 	
Sample ID	Date	Time	Sample Depth (top)	Sample De	No. of Containers	Sample Matrix	Non	iner Ty					Special In	te = 2 L/min structions/Com me (min)	
MSE01-042921 (N)	4/29/2021	1322	NA	NA	1	AA	Х						301		
MSE02-042921 01	4/29/2021	1327	NA	NA	1	AA	X		#				324		
Sampled By:			_	Sample	er: K	- To	m	-				Courier/Airbill No.: FedE	x/ 7736 2700 34		
Signature:  Special Instructions:  Send	٤	, t	_ L	Kelinquis		0	,	ilbo	me	Date:	Time: 1300	Received By/ Affiliation:	~	5/4/21 5:0-21	IS00 1230
Results to:  Turnaround Time: Standard										1					

CIS Page 4 of 4 bol X

20.2-0.1=2010 1709029