

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

March 1st, 2021 through March 31st, 2021

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March 1st, 2021 through March 31st, 2021

Prepared for:



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



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Acronyms and Abbreviations

AMSR	Air Monitoring Summary Report
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
TSP	total suspended particulates
TWA	time-weighted average
μg/m3	micrograms per cubic meter

Introduction

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, 2019). 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 March 1st, 2021 through March 31st, 2021 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019]).

2.0 Monitoring Site Locations

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

Air monitoring was performed to estimate and assess the impact of field activities. The locations of air monitoring stations were determined based on the prevailing wind direction and were modified as needed for accessibility and worker safety considerations. Wind direction was monitored daily using a windsock and confirmed with the prevalent wind direction recorded for the Hunters Point Station (APTIM HPNS - KCASANFR1504) published at Weather Underground (www.wunderground.com). 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, 2016).

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, 2019]. 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 ug/m³.

Test Parameter	Threshold Criterion	Threshold Criteria Reference				
Asbestos	0.1 fiber/cm ³	Cal/OSHA PEL				
PM10	5,000 ug/m ³	Cal/OSHA PEL				
TSP	0.5 mg/m ³	Basewide HPNS Level selected to minimize				
135	0.5 mg/m*	overall permissible dust release from sites				
Copper	1.0 mg/m ³	Cal/OSHA PEL				
Lead	0.050 mg/m ³	Cal/OSHA PEL				
Manganese	0.200 mg/m ³	Cal/OSHA PEL				
Radiological	10% of Effluent	Occupational and public air concentration				
	Concentration Values	limits for ROCs are published in 10 Code of				
		Federal Regulations Part 20, Appendix B.				

Table 4-1: Air Monitoring Threshold Criteria

Notes:

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

 $\mu g/m^3$ = 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/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter less than 10 microns in diameter

TSP = total suspended particulates

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 March 1st to March 31st, 2021, during which Gilbane was demolishing a well pad, flattening an asphalt pile, installing entrance area with drain rock, grading, removing debris from the shoreline, offloading trucks, and compacting soil in Parcel E. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks. Air samples were not collected on March 15th, 2021 as there were no earth moving activities.

Construction and remediation activities conducted from March 1st through March 31st, 2021, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from March 1st through March 31st, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 2.

PM10 results from March 1st through March 31st, 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 March 1st through March 31st, 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 March 1st through March 31st, 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. Overall, there were minimal quality control anomalies which did not affect data usability. No data quality issues were noted with the following exception:

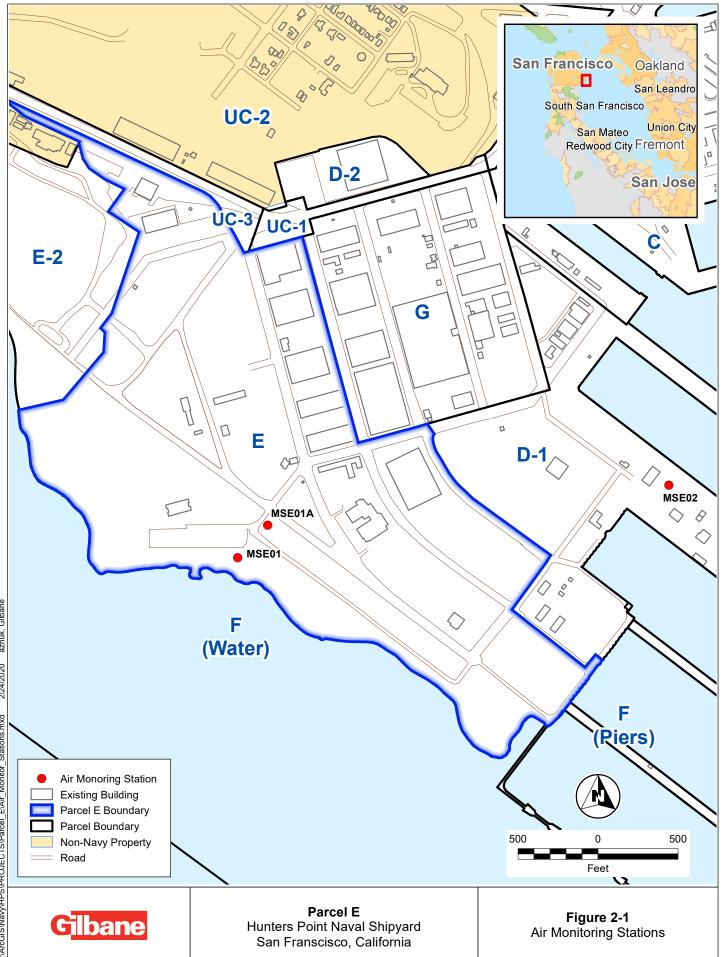
- Samples collected on March 10th, 11th, 17th, and 18th and reported in sample delivery groups 21030851 and 21031181 were reported with PM10 results systematically greater than the corresponding TSP result at both the upwind and downwind stations. The laboratory reran a few PM10 samples to confirm, but the TSP samples could not be rerun because a strip of the filter is removed to analyze for the metals. The resulting corrective action for the anomalies is to replace parts of the HVAC and the balance. The lab's corrective action is provided as Attachment 8 (Nonconformance/Corrective Action Report).
- The affected results were qualified as estimated (J) due to the reporting anomaly using professional judgement.

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, 2014. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October

FIGURES



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ATTACHMENTS

Ambient Pressure and Temperature Monitoring Results

ATTACHMENT 1

AMBIENT PRESSURE AND TEMPERATURE MONITORING RESULTS

Ambient Pressure and Temperature Monitoring Results

Attachment 1 Ambient Pressure, Temperature, and Prevalent Wind Direction Monitoring Results Remedial Action Parcel E, Phase 2 Hunters Point Naval Shipyard, San Francisco, California



Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
3/1/2021	30.10	53.99	SW
3/2/2021	29.90	53.93	SW
3/3/2021	30.03	51.08	WSW
3/4/2021	30.30	54.67	WSW
3/8/2021	30.24	51.35	SSW
3/9/2021	30.05	49.07	S
3/10/2021	30.04	47.55	SSW
3/16/2021	30.16	48.46	S
3/17/2021	30.15	50.41	S
3/18/2021	30.17	52.74	WNW
3/19/2021	30.24	55.11	WNW
3/22/2021	30.18	53.09	NW
3/23/2021	30.13	58.81	Ν
3/24/2021	30.08	59.30	W
3/25/2021	29.90	53.71	W
3/26/2021	30.08	49.64	W
3/29/2021	30.04	52.53	SW
3/30/2021	30.10	61.72	SW
3/31/2021	30.10	64.28	S

Notes:

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

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2 ASBESTOS MONITORING RESULTS

Asbestos Monitoring Results

Attachment 2 Asbestos Monitoring Results Remedial Action Parcel E, Phase 2 Hunters Point Naval Shipyard, San Francisco, California



Sample, Date a	nd Station Infor	mation	Sampler Run I	nformation	Asbestos Fibers			
	Sample Start	Monitoring		Total Air Volume			Exceedance	
Sample ID	Date ¹	Station	Duration of Run	Monitored	Asbestos	Conc Asbestos	(Yes/No)	
			(min)	(L)	(fibers)	(fibers/cm ³)		
MSE01-030121	03/01/21	1	462	924	10.0	0.005	No	
MSE02-030121	03/01/21	2	442	884	10.5	0.006	No	
MSE01-030221	03/02/21	1	424	848	13.0	0.008	No	
MSE02-030221	03/02/21	2	452	904	9.5	0.005	No	
MSE01-030321	03/03/21	1	456	912	15.5	0.008	No	
MSE02-030321	03/03/21	2	442	884	11.0	0.006	No	
MSE01-030421	03/04/21	1	384	768	10.5	0.007	No	
MSE02-030421	03/04/21	2	402	804	9.5	0.006	No	
MSE01-030821	03/08/21	1	421	842	9.0	0.005	No	
MSE02-030821	03/08/21	2	438	876	10.5	0.006	No	
MSE01-030921	03/09/21	1	366	732	10.5	0.007	No	
MSE02-030921	03/09/21	2	392	784	8.5	0.005	No	
MSE01-031021	03/10/21	1	401	802	7.0	0.004	No	
MSE02-031021	03/10/21	2	393	786	8.5	0.005	No	
MSE01-031621	03/16/21	1	340	680	12.5	0.009	No	
MSE02-031621	03/16/21	2	442	884	9.5	0.005	No	
MSE01-031721	03/17/21	1	486	972	10.5	0.005	No	
MSE02-031721	03/17/21	2	504	1008	12.5	0.006	No	
MSE01-031821	03/18/21	1	400	800	15.0	0.009	No	
MSE02-031821	03/18/21	2	442	884	14.5	0.008	No	
MSE01-031921	03/19/21	1	339	678	11.0	0.008	No	
MSE02-031921	03/19/21	2	383	766	12.0	0.008	No	
MSE01-032221	03/22/21	1	451	902	12.0	0.007	No	
MSE02-032221	03/22/21	2	477	954	11.5	0.006	No	
MSE01-032321	03/23/21	1	445	890	13.5	0.007	No	
MSE02-032321	03/23/21	2	461	922	10.0	0.005	No	
MSE01-032421	03/24/21	1	518	1036	12.5	0.006	No	
MSE02-032421	03/24/21	2	549	1098	12.5	0.006	No	
MSE01-032521	03/25/21	1	501	1002	10.0	0.005	No	
MSE02-032521	03/25/21	2	519	1038	8.0	0.004	No	
MSE01-032621	03/26/21	1	313	626	10.5	0.008	No	
MSE02-032621	03/26/21	2	340	680	9.5	0.007	No	
MSE01-032921	03/29/21	1	407	814	9.0	0.005	No	
MSE02-032921	03/29/21	2	441	882	9.5	0.005	No	
MSE01-033021	03/30/21	1	455	910	13.0	0.007	No	
MSE02-033021	03/30/21	2	473	946	12.5	0.006	No	
MSE01-033121	03/31/21	1	530	1060	19.0	0.009	No	
MSE02-033121	03/31/21	2	556	1112	11.0	0.005	No	

Notes:

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

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

min = minutes

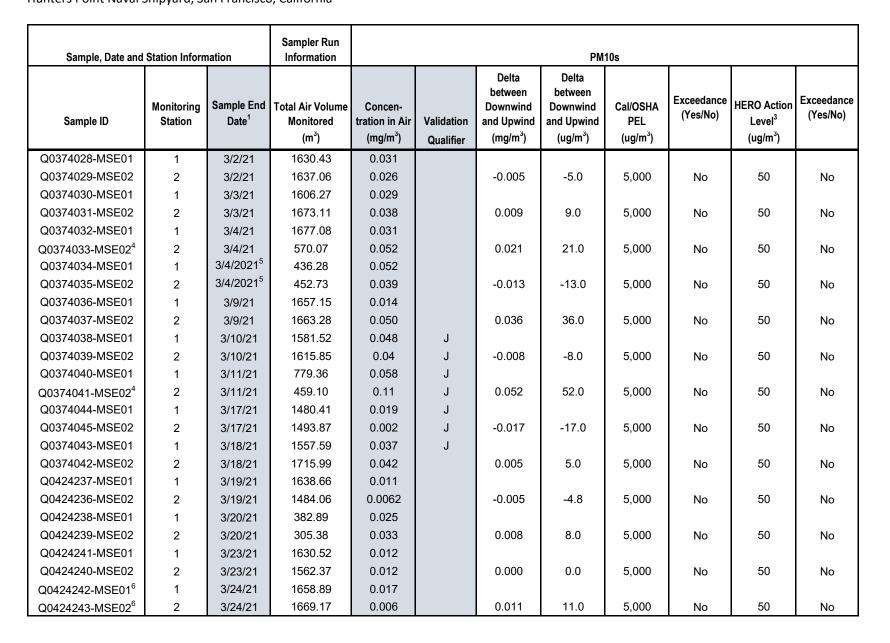
L = liter

 $fibers/cm^3 = fibers per cubic centimeter$

ATTACHMENT 3 PM10 MONITORING RESULTS

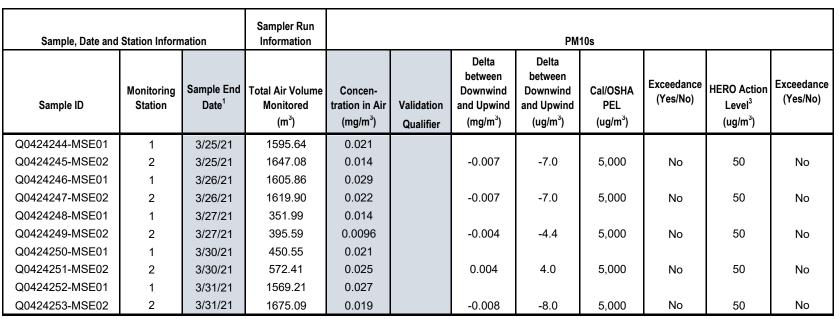
PM10 Monitoring Results

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





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



Notes:

¹Sample "end" date indicates the date upon which sample collection ended.

²Air sample was not collected on days with rain or when contaminated soil was not disturbed.

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

⁴Generator malfunction

⁵Sample collected in the afternoon

⁶Prevalent wind direction counter to normal conditions. Usual upwind and downwind stations reversed for this calculation.

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

DTSC = Department of Toxic Substances Control

J = estimated value

 m^3 = cubic meters

mg = milligrams

mg/m³ = milligrams per cubic meter

 PM_{10} -particulate matter smaller than 10 microns in diameter



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 Information			Sampler Run Information	Total Suspended Particulates					
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concen- tration in Air (mg/m ³)	Validation Qualifier	Delta between Downwind and Upwind (mg/m ³)	Basewide HPNS Level (mg/m ³)	Exceedance (Yes/No)	
9764116-MSE01	1	3/2/21	1632.24	0.033					
9764117-MSE02	2	3/2/21	1661.30	0.038		0.005	0.5	No	
9764118-MSE01	1	3/3/21	1599.71	0.036					
9764119-MSE02	2	3/3/21	1656.90	0.039		0.003	0.5	No	
9764120-MSE01	1	3/4/21	1680.04	0.032					
9764121-MSE02 ³	2	3/4/21	612.31	0.040		0.008	0.5	No	
9764122-MSE01	1	3/4/20214	448.92	0.058					
9764123-MSE02	2	3/4/20214	459.10	0.052		-0.006	0.5	No	
9764124-MSE01	1	3/9/21	1639.76	0.014					
9764125-MSE02	2	3/9/21	1688.41	0.015		0.001	0.5	No	
9764127-MSE01	1	3/10/21	1567.04	0.014	J				
9764126-MSE02	2	3/10/21	1629.90	0.0093	J	-0.005	0.5	No	
9764128-MSE01	1	3/11/21	1572.23	0.0078	J				
9764129-MSE02 ³	2	3/11/21	461.02	0.0079	J	0.0001	0.5	No	
9764130-MSE01	1	3/17/21	1479.96	0.017	J				
9764132-MSE02	2	3/17/21	1512.15	0.0056	J	-0.011	0.5	No	
9894234-MSE01	1	3/18/21	1671.28	0.015	J				
9894233-MSE02	2	3/18/21	1751.80	0.0078		-0.007	0.5	No	
9894235-MSE01	1	3/19/21	1631.84	0.014					
9894236-MSE02	2	3/19/21	1666.39	0.0098		-0.004	0.5	No	
9894237-MSE01	1	3/20/21	383.77	0.044					
9894238-MSE02	2	3/20/21	349.80	0.049		0.005	0.5	No	
9894239-MSE01	1	3/23/21	1596.06	0.034					
9894240-MSE02	2	3/23/21	1680.05	0.024		-0.010	0.5	No	
9894241-MSE01	1	3/24/21	1651.77	0.028					
9894242-MSE02	2	3/24/21	1706.99	0.0078		-0.020	0.5	No	
9894243-MSE01	1	3/25/21	1612.73	0.025					
9894244-MSE02	2	3/25/21	1695.12	0.016		-0.009	0.5	No	
9894245-MSE01	1	3/26/21	1602.99	0.038					
9894246-MSE02	2	3/26/21	1663.46	0.028		-0.010	0.5	No	
9894248-MSE01	1	3/27/21	356.26	0.035					
9894247-MSE02	2	3/27/21	410.87	0.032		-0.003	0.5	No	
9894249-MSE01	1	3/30/21	571.13	0.031					
9894250-MSE02	2	3/30/21	583.39	0.032		0.001	0.5	No	



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



Sample, Date and Station Information			Sampler Run Information		Total Su	spended Pari	ticulates	
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concen- tration in Air (mg/m ³)	Validation Qualifier	Delta between Downwind and Upwind (mg/m ³)	Basewide HPNS Level (mg/m ³)	Exceedance (Yes/No)
9894251-MSE01	1	3/31/21	1618.47	0.041				
9894252-MSE02	2	3/31/21	1710.93	0.029		-0.012	0.5	No

Notes:

¹Sample "end" date indicates the date upon which sample collection ends.

²Air sample was not collected on days with rain or when contaminated soil was not disturbed.

³ Generator malfunction

⁴Sample collected in the afternoon

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

-- indicates difference was not calculated

< = below detection limit

HPNS = Hunters Point Naval Shipyard

mg = milligrams

mg/m³ = milligrams per cubic meter

J = estimated value

m³ = cubic meters

NA = not applicable

ug = micrograms

Copper, Lead, and Manganese Monitoring Results

ATTACHMENT 5

COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Copper, Lead, and Manganese Monitoring Results

Attachment 5 Copper, Lead, and Manganese Monitoring Results Remedial Action Parcel E, Phase 2 Hunters Point Naval Shipyard, San Francisco, California

Sample, Date and Station Information		Sampler Run Information	Copper		Lead		Manganese		
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concen-tration in Air (mg/m ³)	Exceedance (Yes/No)	Concen-tration in Air (mg/m ³)	Exceedance (Yes/No)	Concen-tration in Air (mg/m ³)	Exceedance (Yes/No)
9764116-MSE01	1	3/2/21	1632.24	0.00026	No	< 0.000015	No	0.000028	No
9764117-MSE02	2	3/2/21	1661.30	0.00045	No	<0.000015	No	0.000026	No
9764118-MSE01	1	3/3/21	1599.71	0.00022	No	<0.000016	No	0.000021	No
9764119-MSE02	2	3/3/21	1656.90	0.00025	No	<0.000015	No	0.000023	No
9764120-MSE01	1	3/4/21	1680.04	0.00012	No	<0.000015	No	0.000019	No
9764121-MSE02 ³	2	3/4/21	612.31	0.00040	No	<0.000041	No	<0.000041	No
9764122-MSE01	1	3/4/2021 ⁴	448.92	0.00022	No	<0.000056	No	<0.000056	No
9764123-MSE02	2	3/4/2021 ⁴	459.10	0.00028	No	<0.000054	No	<0.000054	No
9764124-MSE01	1	3/9/21	1639.76	0.00027	No	<0.000015	No	<0.000015	No
9764125-MSE02	2	3/9/21	1688.41	0.000066	No	<0.000015	No	<0.000015	No
9764127-MSE01	1	3/10/21	1567.04	0.000085	No	<0.000016	No	<0.000016	No
9764126-MSE02	2	3/10/21	1629.90	0.00018	No	<0.000015	No	<0.000015	No
9764128-MSE01	1	3/11/21	1572.23	0.00017	No	<0.000016	No	<0.000016	No
9764129-MSE02 ³	2	3/11/21	461.02	0.00020	No	<0.000054	No	<0.000054	No
9764130-MSE01	1	3/17/21	1479.96	0.00021	No	< 0.000017	No	< 0.000017	No
9764132-MSE02	2	3/17/21	1512.15	0.00011	No	< 0.000017	No	< 0.000017	No
9894234-MSE01	1	3/18/21	1671.28	0.00018	No	< 0.000015	No	< 0.000015	No
9894233-MSE02	2	3/18/21	1751.80	0.00023	No	< 0.000014	No	< 0.000014	No
9894235-MSE01	1	3/19/21	1631.84	0.00028	No	< 0.000015	No	< 0.000015	No
9894236-MSE02	2	3/19/21	1666.39	0.00011	No	< 0.000015	No	< 0.000015	No
9894237-MSE01	1	3/20/21	383.77	0.00019	No	< 0.000065	No	< 0.000065	No
9894238-MSE02	2	3/20/21	349.80	0.00014	No	< 0.000071	No	< 0.000071	No
9894239-MSE01	1	3/23/21	1596.06	0.00024	No	< 0.000016	No	< 0.000016	No
9894240-MSE02	2	3/23/21	1680.05	0.000042	No	< 0.000015	No	< 0.000015	No
9894241-MSE01	1	3/24/21	1651.77	0.00023	No	<0.000015	No	0.000021	No
9894242-MSE02	2	3/24/21	1706.99	0.000028	No	<0.000015	No	<0.000015	No
9894243-MSE01	1	3/25/21	1612.73	0.00014	No	<0.000016	No	<0.000016	No
9894244-MSE02	2	3/25/21	1695.12	0.000036	No	<0.000015	No	<0.000015	No
9894245-MSE01	1	3/26/21	1602.99	0.00026	No	< 0.000016	No	< 0.000016 UJ	No
9894246-MSE02	2	3/26/21	1663.46	0.000084 J	No	< 0.000015	No	< 0.000015 UJ	No
9894248-MSE01	1	3/27/21	356.26	0.00036	No	< 0.000070	No	< 0.000070 UJ	No
9894247-MSE02	2	3/27/21	410.87	0.00015	No	< 0.000061	No	< 0.000061 UJ	No
9894249-MSE01	1	3/30/21	571.13	0.00011	No	< 0.000044	No	< 0.000044 UJ	No
9894250-MSE02	2	3/30/21	583.39	0.000072	No	< 0.000043	No	< 0.000043 UJ	No
9894251-MSE01	1	3/31/21	1618.47	0.00044	No	< 0.000015	No	0.000031	No
9894252-MSE02	2	3/31/21	1710.93	0.00028	No	0.000015	No	< 0.000015	No

Notes:

¹Sample "end" date indicates the date upon which sample collection ends.

²Air sample was not collected on days with rain or when contaminated soil was not disturbed.

³ Generator malfunction

⁴Sample collected in the afternoon

Samples analyzed by ALS Environmental

mg = milligrams

J = estimated value m³ = cubic meters

< = below detection limit

ug = micrograms

UJ = not detected; associated detection limit estimated

nan

ATTACHMENT 6

RADIOLOGICAL AIR MONITORING RESULTS

Radiological Air Monitoring Results

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Gilba	ane														AIR	SAMPL	E RESU	LTS - F	UBLIC	EXPO	SURE	MONIT	ORING
					Project Info	rmation					Effluent	t Air Con	centration		S	ampling Pe	riod			Color	Codes		
Contract /	Task Order N	umber: F	Project Titl	le / Locati	on:		Gilbane Project Nu	mber:					Alpha	Beta	Air	samples col	lected	V	alue < MDC	;	Value <	0.1 x Efflue	ent Conc
N62473	8-17-D-0005 /	F4332		Parcel I	E RA HPNS, S	SF, CA	J3	10000400			Rad	ionuclide	Ra-226	Sr-90	between	March 1, 20	21	< 72	2 hr decay ti	me	Value >	0.1 x Efflue	ent Conc
			Info	rmation ef	ffective as of:	5/4/2021				Ef	fluent Conc	: (µCi/ml)	9.E-13	6.E-12	and	March 31, 2	021	D	ata reviewe	d	Valu	e > Effluent	Conc
					Sample Co	llection							Cour	nt Informat	ion				Sample I	Results		Init	tials
Sample	Sample	Sam	ple	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data
Number	Туре	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-0115	Perimeter	MSC	01	PE06	60	3/1/21 6:55	3/1/21 15:15	500	3.0E+07	С	3/9/21	1	cpm	0.100	4.800	0.3	10.2	4.2E-15	1.5E-13	0.5%	2.6%	DVT	BCS
AS-0116	Perimeter	MSC	02	PE05	60	3/1/21 7:00	3/1/21 15:20	500	3.0E+07	С	3/9/21	1	cpm	0.150	4.900	0.4	10.5	6.3E-15	1.6E-13	0.7%	2.6%	DVT	BCS
AS-0117	Perimeter	MSC		PE06	60	3/2/21 6:31	3/2/21 15:22	531	3.2E+07	С	3/9/21	1	cpm	0.150	4.100	0.4	8.2	6.0E-15	1.2E-13	0.7%	1.9%	DVT	BCS
AS-0118	Perimeter	MSC		PE05	60	3/2/21 6:36	3/2/21 15:16	520	3.1E+07	С	3/9/21	1	cpm	0.200	4.550	0.6	9.5	8.1E-15	1.4E-13	0.9%	2.3%	DVT	BCS
AS-0119	Perimeter	MSC		PE06	60	3/3/21 6:56	3/3/21 15:00	484	2.9E+07	С	3/9/21	1	cpm	0.100	4.450	0.3	9.2	4.4E-15	1.4E-13	0.5%	2.4%	DVT	BCS
AS-0120	Perimeter	MSC		PE05	60	3/3/21 6:47	3/3/21 15:05	498	3.0E+07	С	3/9/21	1	cpm	0.300	4.350	0.8	8.9	1.3E-14	1.3E-13	1.4%	2.2%	DVT	BCS
AS-0121	Perimeter	MSC		PE06	60	3/4/21 6:20	3/4/21 15:00	520	3.1E+07	С	3/9/21	1	cpm	0.100	5.400	0.3	11.9	4.1E-15	1.7E-13	0.5%	2.9%	DVT	BCS
AS-0122	Perimeter	MSC		PE05	60	3/4/21 6:30	3/4/21 14:50	500	3.0E+07	С	3/9/21	1	cpm	0.200	4.550	0.6	9.5	8.4E-15	1.4E-13	0.9%	2.4%	DVT	BCS
AS-0123	Perimeter	MSC		PE06	60	3/8/21 6:30	3/8/21 15:30	540	3.2E+07	С	3/18/21	1	cpm	0.000	3.900	0.0	7.7	0.0E+00	1.1E-13	0.0%	1.8%	DVT	BCS
AS-0124	Perimeter	MSC		PE05	60	3/8/21 6:55	3/8/21 15:45	530	3.2E+07	С	3/18/21	1	cpm	0.200	4.850	0.6	10.4	8.0E-15	1.5E-13	0.9%	2.4%	DVT	BCS
AS-0125	Perimeter	MSC		PE06	60	3/9/21 6:30	3/9/21 15:15	525	3.1E+07	С	3/18/21	1	cpm	0.200	4.600	0.6	9.7	8.0E-15	1.4E-13	0.9%	2.3%	DVT	BCS
AS-0126	Perimeter	MSC		PE05	60	3/9/21 6:39	3/9/21 15:21	522	3.1E+07	С	3/18/21	1	cpm	0.150	3.400	0.4	6.3	6.1E-15	9.0E-14	0.7%	1.5%	DVT	BCS
AS-0127	Perimeter	MSC		PE06	60	3/10/21 6:25	3/10/21 15:31	546	3.3E+07	С	3/18/21	1	cpm	0.200	3.700	0.6	7.1	7.7E-15	9.8E-14	0.9%	1.6%	DVT	BCS
AS-0128	Perimeter	MSC		PE05	60	3/10/21 6:35	3/10/21 15:39	544	3.3E+07	С	3/18/21	1	cpm	0.000	5.250	0.0	11.5	0.0E+00	1.6E-13	0.0%	2.6%	DVT	BCS
AS-0129	Perimeter	MSC		PE06	60	3/11/21 6:30	3/11/21 10:31	241	1.4E+07	С	3/18/21	1	cpm	0.200	4.500	0.6	9.4	1.8E-14	2.9E-13	1.9%	4.9%	DVT	BCS
AS-0130	Perimeter	MSC	02	PE05	60	3/11/21 6:45	3/11/21 10:49	244	1.5E+07	С	3/18/21	1	cpm	0.100	3.350	0.3	6.1	8.6E-15	1.9E-13	1.0%	3.1%	DVT	BCS
AS-0131	Perimeter	MSC		PE06	60	3/16/21 7:10	3/16/21 15:40	510	3.1E+07	С	3/22/21	1	cpm	0.150	3.450	0.4	6.4	6.2E-15	9.4E-14	0.7%	1.6%	DVT	BCS
AS-0132	Perimeter	MSC		PE05	60	3/16/21 7:00	3/16/21 15:30	510	3.1E+07	С	3/22/21	1	cpm	0.050	3.900	0.1	7.7	2.1E-15	1.1E-13	0.2%	1.9%	DVT	BCS
AS-0133	Perimeter	MSC		PE06	60	3/17/21 6:30	3/17/21 15:45	555	3.3E+07	С	3/22/21	1	cpm	0.200	4.750	0.6	10.1	7.6E-15	1.4E-13	0.8%	2.3%	DVT	BCS
AS-0134	Perimeter	MSC		PE05	60	3/17/21 6:45	3/17/21 15:35	530	3.2E+07	С	3/22/21	1	cpm	0.050	4.450	0.1	9.2	2.0E-15	1.3E-13	0.2%	2.2%	DVT	BCS
AS-0135	Perimeter	MSC	:01	PE06	60	3/18/21 6:30	3/18/21 15:13	523	3.1E+07	С	3/22/21	1	cpm	0.200	5.100	0.6	11.1	8.1E-15	1.6E-13	0.9%	2.7%	DVT	BCS
AS-0136	Perimeter	MSC	:02	PE05	60	3/18/21 6:44	3/18/21 15:17	513	3.1E+07	С	3/22/21	1	cpm	0.050	4.050	0.1	8.1	2.1E-15	1.2E-13	0.2%	2.0%	DVT	BCS
AS-0137	Perimeter	MSC	01	PE06	60	3/19/21 6:29	3/19/21 14:30	481	2.9E+07	С	3/30/21	1	cpm	0.050	4.000	0.1	8.0	2.2E-15	1.2E-13	0.2%	2.1%	DVT	BCS
AS-0138	Perimeter	MSC	02	PE05	60	3/19/21 6:35	3/19/21 14:40	485	2.9E+07	С	3/30/21	1	cpm	0.050	3.400	0.1	6.3	2.2E-15	9.7E-14	0.2%	1.6%	DVT	BCS
AS-0139	Perimeter	MSC		PE06	60	3/22/21 6:24	3/22/21 15:25	541	3.2E+07	С	3/30/21	1	cpm	0.200	3.900	0.6	7.7	7.8E-15	1.1E-13	0.9%	1.8%	DVT	BCS
AS-0140	Perimeter	MSC	02	PE05	60	3/22/21 6:45	3/22/21 15:15	510	3.1E+07	С	3/30/21	1	cpm	0.150	4.500	0.4	9.4	6.2E-15	1.4E-13	0.7%	2.3%	DVT	BCS
AS-0141	Perimeter	MSC	01	PE06	60	3/23/21 6:30	3/23/21 15:39	549	3.3E+07	С	3/30/21	1	cpm	0.100	5.450	0.3	12.1	3.8E-15	1.7E-13	0.4%	2.8%	DVT	BCS
AS-0142	Perimeter	MSC	02	PE05	60	3/23/21 6:40	3/23/21 15:30	530	3.2E+07	С	3/30/21	1	cpm	0.050	3.700	0.1	7.1	2.0E-15	1.0E-13	0.2%	1.7%	DVT	BCS
AS-0143	Perimeter	MSC	01	PE06	60	3/24/21 6:45	3/24/21 15:30	525	3.2E+07	С	3/30/21	1	cpm	0.100	4.400	0.3	9.1	4.0E-15	1.3E-13	0.4%	2.2%	DVT	BCS
AS-0144	Perimeter	MSC	02	PE05	60	3/24/21 6:55	3/24/21 15:45	530	3.2E+07	С	3/30/21	1	cpm	0.100	3.550	0.3	6.7	4.0E-15	9.5E-14	0.4%	1.6%	DVT	BCS

Gilba	ane														AIR	SAMPL	E RESU	LTS - P	UBLIC	EXPO	SURE	MONIT	ORING
					Project Info	ormation					Effluent	t Air Con	centration		S	Sampling Pe	riod			Color	[.] Codes		
Contract /	Task Order N	umber:	Project Title	/ Locatio	on:		Gilbane Project Nu	mber:					Alpha	Beta	Air	samples col	lected	V	alue < MDC)	Value <	0.1 x Efflue	ent Conc
N62473	3-17-D-0005 /	F4332		Parcel E	E RA HPNS, S	SF, CA	J3 ⁻	10000400			Rad	ionuclide	Ra-226	Sr-90	between	March 1, 202	21	< 72	2 hr decay ti	ime	Value >	0.1 x Efflue	ent Conc
			Inform	nation ef	ffective as of:	5/4/2021				Ef	fluent Conc	: (µCi/ml)	9.E-13	6.E-12	and	March 31, 2	021	Da	ata reviewe	d	Valu	e > Effluent	Conc
					Sample Co	llection							Coun	t Informat	ion				Sample	Results		Init	ials
Sample	Sample	San	nple	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data
Number	Туре	Loca	ation	No	Rate (Ipm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer
AS-0145	Perimeter	MSC	C01	PE06	60	3/25/21 6:30	3/25/21 15:35	545	3.3E+07	С	3/30/21	1	cpm	0.200	3.500	0.6	6.5	7.7E-15	9.0E-14	0.9%	1.5%	DVT	BCS
AS-0146	Perimeter	MS	C02	PE05	60	3/25/21 6:45	3/25/21 15:45	540	3.2E+07	С	3/30/21	1	cpm	0.200	3.550	0.6	6.7	7.8E-15	9.3E-14	0.9%	1.5%	DVT	BCS
AS-0147	Perimeter	MSC	C01	PE06	60	3/26/21 6:25	3/26/21 12:00	335	2.0E+07	С	3/30/21	1	cpm	0.200	3.950	0.6	7.8	1.3E-14	1.8E-13	1.4%	2.9 %	DVT	BCS
AS-0148	Perimeter	MS	C02	PE05	60	3/26/21 6:35	3/26/21 11:45	310	1.9E+07	С	3/30/21	1	cpm	0.150	3.400	0.4	6.3	1.0E-14	1.5E-13	1.1%	2.5%	DVT	BCS
AS-0149	Perimeter	MSC	C01	PE06	60	3/29/21 6:25	3/29/21 15:45	560	3.4E+07	С	4/5/21	1	cpm	0.100	4.150	0.3	8.4	3.8E-15	1.1E-13	0.4%	1.9%	DVT	BCS
AS-0150	Perimeter	MSC	C02	PE05	60	3/29/21 6:39	3/29/21 15:35	536	3.2E+07	С	4/5/21	1	cpm	0.250	3.850	0.7	7.5	9.8E-15	1.1E-13	1.1%	1.8%	DVT	BCS
AS-0151	Perimeter	MSC	C01	PE06	60	3/31/21 6:25	3/31/21 15:25	540	3.2E+07	С	4/5/21	1	cpm	0.250	5.800	0.7	13.1	9.8E-15	1.8E-13	1.1%	3.0%	DVT	BCS
AS-0152	Perimeter	MS	C02	PE05	60	3/31/21 6:30	3/31/21 15:30	540	3.2E+07	С	4/5/21	1	cpm	0.350	5.150	1.0	11.2	1.4E-14	1.6E-13	1.5%	2.6%	DVT	BCS

ATTACHMENT 7 LABORATORY REPORTS

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12-Mar-2021

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

Re: HPNS Parcel E-2; J310000400

Work Order: 21030185

Dear Brett,

ALS Environmental received 4 samples on 03-Mar-2021 11:05 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,



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

Environmental 🐊

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client:	Gilbane Company
Project:	HPNS Parcel E-2; J310000400
Work Order:	21030185

Work Order Sample Summary

Lab Samp ID Client Sample ID	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received	Hold
21030185-01 Q0374028-MSE01	Air		3/2/2021 08:11	3/3/2021 11:05	
21030185-02 9764116-MSE01	Air		3/2/2021 08:11	3/3/2021 11:05	
21030185-03 Q0374029-MSE02	Air		3/2/2021 08:00	3/3/2021 11:05	
21030185-04 9764117-MSE02	Air		3/2/2021 08:00	3/3/2021 11:05	

Date: 12-Mar-21

Client: Project:	Gilbane Company HPNS Parcel E-2; J310000400	Case Narrative
Work Order:	21030185	Case Marrative

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.

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Client:Gilbane CompanyProject:HPNS Parcel E-2; J310000400

Work Order: 21030185

Analytical Results

Lab ID:	21030185-01A		ſ	Collection Date: 3/2/2021 8:11	.00 AM
			L L		:00 AM
Client Sample ID:	Q0374028-MSE01			Matrix: AIR	
Analyses					
PM : PM10 40CFR {	50 APPDIX J		Method: PM10	Air Volume (L): 1630430	Analyst: SRI
Date Analyzed: 3/10/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10)	51	1.0	0.031	
Lab ID:	21030185-02A		C	Collection Date: 3/2/2021 8:11	:00 AM
Client Sample ID:	9764116-MSE01			Matrix: AIR	
Analyses					
TSP 40 CFR 50 APF	PDX B		Method: TSP	Air Volume (L): 1632240	Analyst: SR
Date Analyzed: 3/10/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	53	1.0	0.033	
METALS BY EPA M	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1632240	Analyst: AZ
Date Analyzed: 3/11/	2021 13:48		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		430	25	0.00026	
Lead		ND	25	<0.000015	
Manganese		45	25	0.000028	
Lab ID:	21030185-03A		0	Collection Date: 3/2/2021 8:00	:00 AM
Client Sample ID:	Q0374029-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFR 5	50 APPDIX J		Method: PM10	Air Volume (L): 1637060	Analyst: SRI
Date Analyzed: 3/10/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10)	43	1.0	0.026	

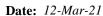
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Client:Gilbane CompanyProject:HPNS Parcel E-2; J310000400

Work Order: 21030185

Analytical Results

Lab ID: 21030185-04A			Collection Date: 3/2/2021 8:00	:00 AM
Client Sample ID: 9764117-MSE02			Matrix: AIR	
Analyses				
TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1661300	Analyst: SRL
Date Analyzed: 3/10/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	63	1.0	0.038	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1661300	Analyst: AZ
Date Analyzed: 3/11/2021 13:52		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	750	25	0.00045	
Lead	ND	25	<0.000015	
Manganese	43	25	0.000026	



Client:Gilbane CompanyWork Order:21030185Project:HPNS Parcel E-2; J310000400

QC BATCH REPORT

Batch ID: R189534	Instrument ID BA	L2		Method	t: TSP							
DUP	Sample ID: 21020836-0	6A DUP				Ur	nits: mg/	sample	Analysis	s Date: 3/10)/2021	
Client ID:		Run ID	BAL2_	210310A		Seq	No: 241 2	2414	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended part	ticulate	36.75	1.0	0		0	0		36.88	0.353	20	
The following samp	les were analyzed in thi	s batch:	2	1030185-02A	\ 21	10301	85-04A					

Client:	Gilbane Company							OC I	BATCI	H REF	PORT
Work Order:	21030185								-		
Project:	HPNS Parcel E-2; J310	0000400									
Batch ID: R189535	Instrument ID BAL	2		Methoo	d: PM10						
DUP	Sample ID: 21030347-01	A DUP				Units: mg/	sample	Analysis	Date: 3/10)/2021	
Client ID:		Run ID	BAL2_	210310B		SeqNo: 2412	2470	Prep Date:		DF: 1	
Analyte	F	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10		48.26	1.0	0		0 0		47.03	2.58	20	
The following sam	ples were analyzed in this	batch:	2	1030185-01/	A 2'	030185-03A					

QC BATCH REPORT

Batch ID: 73112 Instrument ID ICP1 Method: E12

MBLK	Sample ID: MBLK-73112	2-73112				Units: µg/s	ample	Analys	is Date: 3/1	1/2021 01:	20 PM
Client ID:		Run ID:	ICP1_2	10311A		SeqNo: 2413	3805	Prep Date: 3/1	0/2021	DF: 1	
Analyte	I	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-73112-	73112				ι	Jnits: µg/s	ample	Analysi	s Date: 3/1	1/2021 01::	24 PM
Client ID:		Run ID:	ICP1_2	10311A		Se	eqNo: 2413	806	Prep Date: 3/1	0/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		450	100	450		0	100	75-125	()		
Lead		461.2	25	450		0	102	75-125	()		
Manganese		478.8	100	450		0	106	75-125	C)		

LCSD	Sample ID: LCSD-73112-	-73112				ι	Jnits: µg/s	ample	Analysis	Date: 3/11	/2021 01:3	36 PM
Client ID:		Run ID:	ICP1_2	10311A		Se	qNo: 241 3	807	Prep Date: 3/10	/2021	DF: 1	
Analyte	٦	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		456.3	100	450		0	101	75-125	450	1.39	20	
Lead	4	465.8	25	450		0	104	75-125	461.2	0.971	20	
Manganese		474.8	100	450		0	106	75-125	478.8	0.849	20	

MS	Sample ID: 21030347-08	Units: µg/s	ample	Analysis Date: 3/11/2021 02:12 PM			12 PM				
Client ID:		Run ID:	ICP1_21	10311A		SeqNo: 2413	3816	Prep Date: 3/10	0/2021	DF: 1	
Analyte	I	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		677.2	100	450	242	.3 96.7	75-125	0			
Lead		479.7	25	450	2.94	45 106	75-125	0			
Manganese		489.6	100	450	15.2	24 105	75-125	0			

MSD	Sample ID: 21030347-08A	Sample ID: 21030347-08A MSD						Analysis Date: 3/11/2021 02:24 PM			
Client ID:		Run ID: ICP1_210311A				SeqNo: 2413817		Prep Date: 3/10/2021		DF: 1	
Analyte	Re	esult	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		689	100	450	242	.3 99.3	75-125	677.2	1.71	20	
Lead	4	87.4	25	450	2.94	45 108	75-125	479.7	1.58	20	
Manganese	4	89.2	100	450	15.2	24 105	75-125	489.6	0.092	20	
The following sa	mples were analyzed in this b	atch:	2	1030185-02A	21	030185-04A					

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK		Date/Time F	Received: 03	3-Mar-21	<u>11:05</u>
Work Order: 21030185		Received by	y: <u>JI</u>	<u>R</u>	
Checklist completed by Stephanie H arrington	04-Mar-21 Date	Reviewed by:	R ob Niemal	n	05-Mar-21 Date
Matrices: Carrier name: <u>FedEx</u>			-		I
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present		
Custody seals intact on shipping container/cooler?	Yes 🗸	No 🗌	Not Present		
Custody seals intact on sample bottles?	Yes	No 🗌	Not Present		
Chain of custody present?	Yes 🗸	No			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌			
Samples in proper container/bottle?	Yes 🗹	No 🗌			
Sample containers intact?	Yes 🗹	No 🗌			
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌			
All samples received within holding time?	Yes 🗹	No			
Container/Temp Blank temperature in compliance?	Yes 🗹	No			
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes 🗌	No 🗹			
Cooler(s)/Kit(s):					
Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace?	Yes	No	No VOA vials su	ubmitted	
Water - pH acceptable 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:		
Comments:			
CorrectiveAction:			
			SF
			0.

Cł	CHAIN-OF-CUSTODY Gilbane Federal						COC # KT-030221								CIL		
RECORD 1655 Grant Street, Suite 1					200,	00, Concord, CA 94520 2 0 3 0 1 8 5							Gilbane				
Pro	ject Name: Hunters Point Shi	ipyard, l	Parcel E RA P	hase 2		Lat	oorat	tory:	aboratory (Group, Ci	ncinnati, C			0-			Parcel E Phase 2 Air
Pro	ject Number: J310000400					PO	C:									Monitori	ing
WB	S Code: J310000400					Shi	ip to:	438	ndale Milfor	rd Rd., Bl	ue Ash, Ol	1 45242]	
	nments: lipment:				Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP			A	Air Container/Preservative 1x 250-mL Plastic, 4 D 1x Envelope, None	egrees C				1
	Event: Parcel E Phase 2 Air N	Aonitorin	g			1	1	1					-				
	Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	Q0374028-MSE01	A	03/02/2021	0811	КТ	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1630.43
2	9764116-MSE01	A	03/02/2021	0811	кт		X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1632.24
3	Q0374029-MSE02	A	03/02/2021	0800	КТ	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1637.06
4	9764117-MSE02	A	03/02/2021	0800	КТ		X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1661.30
Tur	naround Time: 5 days																

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
AL :	3/2/21	1400	Elle	3/2/21	1200	Shipping Date: 3/2/2021 / FedEx 7730 4359 5480
Faller	1.701	1.100	Quilin	2/2/2/	11.~	
ICOEX			Jesen	2/3/2	1105	Received by Laboratory: (Signature, Date, Time) & condition
						I Stady Spal
						901001 2000

 $\cdot t$



12-Mar-2021

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

Re: HPNS Parcel E-2; J310000400

Work Order: 21030347

Dear Brett,

ALS Environmental received 8 samples on 05-Mar-2021 11:08 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,



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

Environmental 💭

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client:	Gilbane Company
Project:	HPNS Parcel E-2; J310000400
Work Order:	21030347

Work Order Sample Summary

Lab Samp ID <u>Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
21030347-01 Q0374030-MSE01	Air		3/3/2021 07:50	3/5/2021 11:08	
21030347-02 9764118-MSE01	Air		3/3/2021 07:50	3/5/2021 11:08	
21030347-03 Q03474031-MSE02	Air		3/3/2021 08:01	3/5/2021 11:08	
21030347-04 9764119-MSE02	Air		3/3/2021 08:01	3/5/2021 11:08	
21030347-05 Q0374032-MSE01	Air		3/4/2021 08:20	3/5/2021 11:08	
21030347-06 9764120-MSE01	Air		3/4/2021 08:20	3/5/2021 11:08	
21030347-07 Q0374033-MSE02	Air		3/4/2021 08:05	3/5/2021 11:08	
21030347-08 9764121-MSE02	Air		3/4/2021 08:05	3/5/2021 11:08	

Date: 12-Mar-21

Client:	Gilbane Company	
Project:	HPNS Parcel E-2; J310000400	Case Narrative
Work Order:	21030347	

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	000400		Work Order: 21030347				
Project:	HPNS Parcel E-2; J310	000400		Analytical R	esults			
Lab ID: Client Sample ID	21030347-01A : Q0374030-MSE01		(Collection Date: 3/3/2021 7:50 Matrix: AIR	:00 AM			
Analyses								
PM : PM10 40CFR 50 APPDIX J Date Analyzed: 3/10/2021			Method: PM10 Reporting Limit	Air Volume (L): 1606270	Analyst: SRL			
		mg/sample	mg/sample	mg/m3				
Particulate as PM1	0	47	1.0	0.029				
Lab ID:	21030347-02A		(Collection Date: 3/3/2021 7:50	:00 AM			
Client Sample ID	: 9764118-MSE01			Matrix: AIR				
Analyses								
TSP 40 CFR 50 A	PPDX B		Method: TSP	Air Volume (L): 1599710	Analyst: SRL			
Date Analyzed: 3/1	0/2021	mg/sample	Reporting Limit mg/sample	mg/m3				
Total suspended p	particulate	57	1.0	0.036				
METALS BY EPA	METHOD 12 MOD.		Method: E12	Air Volume (L): 1599710	Analyst: AZ			
Date Analyzed: 3/1	1/2021 13:56		Reporting Limit					
		µg/sample	µg/sample	mg/m3				
Copper Lead		350 ND	25 25	0.00022 <0.000016				
Manganese		34	25 25	0.000016				
Lab ID:	21030347-03A			Collection Date: 3/3/2021 8:01	00 AM			
Client Sample ID				Matrix: AIR				
Analyses								
PM : PM10 40CFF	8 50 APPDIX J		Method: PM10	Air Volume (L): 1673110	Analyst: SRL			
Date Analyzed: 3/1			Reporting Limit		,			
		mg/sample	mg/sample	mg/m3				
Particulate as PM1	0	63	1.0	0.038				

Date: 12-Mar-21

0.000019

ALS Environmental

Client:	Gilbane Company
Project:	HPNS Parcel E-2; J310000400

Lab ID: 21030347-04A Collection Date: 3/3/2021 8:01:00 AM Client Sample ID: 9764119-MSE02 Matrix: AIR Analyses Analyst: SRL TSP 40 CFR 50 APPDX B Method: TSP Air Volume (L): 1656900 Date Analyzed: 3/10/2021 **Reporting Limit** mg/sample mg/sample mg/m3 Total suspended particulate 65 1.0 0.039 METALS BY EPA METHOD 12 MOD. Method: E12 Analyst: AZ Air Volume (L): 1656900 Date Analyzed: 3/11/2021 14:00 **Reporting Limit** µg/sample µg/sample mg/m3 420 25 0.00025 Copper Lead ND 25 < 0.000015 25 0.000023 Manganese 39 Lab ID: Collection Date: 3/4/2021 8:20:00 AM 21030347-05A Client Sample ID: Q0374032-MSE01 Matrix: AIR Analyses PM : PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 1677080 Analyst: SRL Date Analyzed: 3/10/2021 **Reporting Limit** mg/sample mg/sample mg/m3 1.0 Particulate as PM10 0.031 52 Lab ID: 21030347-06A Collection Date: 3/4/2021 8:20:00 AM Client Sample ID: 9764120-MSE01 Matrix: AIR Analyses TSP 40 CFR 50 APPDX B Method: TSP Analyst: SRL Air Volume (L): 1680040 Date Analyzed: 3/10/2021 **Reporting Limit** mg/sample mg/sample mg/m3 Total suspended particulate 53 1.0 0.032 METALS BY EPA METHOD 12 MOD. Method: E12 Analyst: AZ Air Volume (L): 1680040 Date Analyzed: 3/11/2021 14:04 **Reporting Limit** µg/sample µg/sample mg/m3 Copper 200 25 0.00012 Lead ND 25 < 0.000015

32

25

Manganese

Work Order: 21030347

Analytical Results

Client:	Gilbane Company	Work Order: 21030347
Project:	HPNS Parcel E-2; J310000400	Analytical Results

Lab ID:	21030347-07A		0	Collection Date: 3/4/2021 8:05	5:00 AM
Client Sample ID:	Q0374033-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFR \$	50 APPDIX J		Method: PM10	Air Volume (L): 570070	Analyst: SRL
Date Analyzed: 3/10/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		30	1.0	0.052	
Lab ID:	21030347-08A		(Collection Date: 3/4/2021 8:05	5:00 AM
Client Sample ID:	9764121-MSE02			Matrix: AIR	
Analyses					
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 612310	Analyst: SRL
Date Analyzed: 3/10/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	24	1.0	0.040	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 612310	Analyst: AZ
Date Analyzed: 3/11/	2021 14:08		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		240	25	0.00040	
Lead		ND	25	<0.000041	
Manganese		ND	25	<0.000041	

Date: 12-Mar-21

Client:	Gilbane Company
Work Order:	21030347
Project:	HPNS Parcel E-2; J310000400

QC BATCH REPORT

Batch ID: R189534	Instrument ID: BA	L2		Method	TSP						
DUP	Sample ID: 21020836-0	6A DUP				Units:	ng/sample	Analysis	s Date: 3/10	0/2021	
Client ID:		Run ID	BAL2_	210310A		SeqNo: 2	412414	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%RE	Control C Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended part	iculate	36.75	1.0	0		0	0	36.88	0.353	20	
The following samp	les were analyzed in this	batch:	_	1030347-02A 1030347-08A	_	1030347-0	4A 2	1030347-06A			

Client: Work Order: Project:	Gilbane Company 21030347 HPNS Parcel E-2; J31	0000400							QCI	BATC	H REI	PORT
Batch ID: R189535	Instrument ID: BA	L2		Method	: PM10							
DUP	Sample ID: 21030347-0	1A DUP				U	nits: mg/ s	sample	Analysis	Date: 3/10	0/2021	
Client ID: Q0374030	D-MSE01	Run ID	BAL2_2	10310B		Sec	No: 2412	2470	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		48.26	1.0	0		0	0		47.03	2.58	20	
The following samp	bles were analyzed in this	batch:		030347-01A 030347-07A		10303	347-03A	21	030347-05A			

QC BATCH REPORT

Batch ID: 73112 Instrument ID: ICP1 Method: E12

MBLK	Sample ID: MBLK-73112-	Sample ID: MBLK-73112-73112					ample	Anal	ysis Date: 3/1	1/2021 01:	20 PM
Client ID:		Run ID:	ICP1_2	10311A		SeqNo: 2413	3805	Prep Date:	3/10/2021	DF: 1	
Analyte	Я	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-73112-	73112				I	Units: µg/s	ample	Analys	sis Date: 3/1	1/2021 01:2	24 PM
Client ID:		Run ID	: ICP1_21	10311A		Se	eqNo: 2413	806	Prep Date: 3/1	10/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper		450	100	450		0	100	75-125		0		
Lead		461.2	25	450		0	102	75-125		0		
Manganese		478.8	100	450		0	106	75-125		0		

LCSD	Sample ID: LCSD-73112	Sample ID: LCSD-73112-73112						ample	Analysis	Date: 3/11	/2021 01:3	B6 PM
Client ID:		Run IE): ICP1_21	10311A		S	eqNo: 241 3	807	Prep Date: 3/10	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	:	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		456.3	100	450		0	101	75-125	450	1.39	20	
Lead		465.8	25	450		0	104	75-125	461.2	0.971	20	
Manganese		474.8	100	450		0	106	75-125	478.8	0.849	20	

MS	Sample ID: 21030347-0		Units: µg/s	ample	Analysi	Analysis Date: 3/11/2021 02:12 PM					
Client ID: 9764	121-MSE02	Run ID	: ICP1_21	10311A		SeqNo: 2413	3816	Prep Date: 3/1	0/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		677.2	100	450	242.		75-125	0			Qua
Lead		479.7	25	450	2.94		75-125	0)		
Manganese		489.6	100	450	15.2	4 105	75-125	0			

MSD	Sample ID: 21030347-0	8A MSD				Units: µg/	sample	Analysis	Analysis Date: 3/11		
Client ID: 976412	9764121-MSE02 Run ID: ICP1_210311A				SeqNo: 241	3817	Prep Date: 3/10	/2021	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		689	100	450	242	.3 99.3	75-125	677.2	1.71	20	
Lead		487.4	25	450	2.94	108	75-125	479.7	1.58	20	
Manganese		489.2	100	450	15.2	24 105	75-125	489.6	0.092	20	
The following sa	ne following samples were analyzed in this batch: 21030347-02A 21030347-08A			030347-04A	21	030347-06A					

 * Value exceeds Regulatory Limit a Not accredited B Analyte detected in the associated Method Blank above the Reporting Limit E Value above quantitation range H 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 limits S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL 	Client: Project: WorkOrder:	Gilbane Company HPNS Parcel E-2; J310000400 21030347	QUALIFIERS, ACRONYMS, UNITS
a Not accredited B Analyte detected in the associated Method Blank above the Reporting Limit E Value above quantitation range H Analyte detected below quantitation limit J Analyte detected below quantitation limit n Not Offeed 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 limits U Analyzed but not detected above the MDL Accromym Description DUP Method Duplicate E EPA Method LCSD Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MBLK Method Detection Limit MQL Method Quantitation Limit MSD Matrix Spike MSD Matrix Spike PDS Post Digestion Spike PQL Practical Quantitation Limit SW SW-846 Method	Qualifier	Description	
BAnalyte detected in the associated Method Blank above the Reporting LimitEValue above quantitation rangeHAnalyzed outside of Holding TimeJAnalyte detected below quantitation limitnNot Offered for accreditationNDNot Detected at the Reporting LimitOSample amount is > 4 times amount spikedPDual Column results percent difference > 40%RRPD above laboratory control limitsUAnalyzed but not detected above the MDLAcronymDescriptionDUPMethod DuplicateEEPA MethodLCSDLaboratory Control SampleLCSDLaboratory Control SampleLCSDLaboratory Control SampleMBLKMethod Detection LimitMDLMethod Detection LimitMDLMethod Detection LimitMDLMethod Quantitation LimitMDLMethod Quantitation LimitMSDMatrix SpikePDSPost Digestion SpikePQLPost Digestion SpikePQLSpike Accoverion LimitSDLSample Detection Limit <trr>SNSV-846 Me</trr>	*	Value exceeds Regulatory Limit	
E Value above quantitation range H 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 LCS Laboratory Control Sample LCS Laboratory Control Sample LCS Laboratory Control Sample LCS Laboratory Control Sample Duplicate MBLK Method MDL Method Detection Limit MQL Method Quantitation Limit MS Matrix Spike MSD Matrix Spike PDS Post Digestion Spike PQL Practical Quantitation Limit SW SW-846 Method	а	Not accredited	
HAnalyzed outside of Holding TimeJAnalyte detected below quantitation limitnNot offered for accreditationNDNot Detected at the Reporting LimitOSample amount is > 4 times amount spikedPDual Column results percent difference > 40%RRPD above laboratory control limitSSpike Recovery outside laboratory control limitsUAnalyzed but not detected above the MDLAcronymDescriptionDUPMethod DuplicateEEPA MethodLCSDLaboratory Control SampleLCSDLaboratory Control SampleLCSDLaboratory Control Sample DuplicateMBLKMethod BlankMDLMethod Detection LimitMSDMatrix SpikeMSDMatrix SpikePDSPost Digsstion SpikePDSPost Digsstion SpikePQLPost Digsstion SpikePQLSmaple Detection LimitSpikeSpike DuplicateSpikeSpike DuplicateMSDMatrix SpikeMSDSpike DuplicatePDSPost Digsstion SpikePQLPractical Quantitation LimitSpikeSmaple Detection LimitSpikeSmaple Detection LimitSpikeSmaple Detection LimitSpikeSmaple Detection LimitSpikeSmaple Detection LimitSpikeSmaple Detection LimitSpikeSw-846 Method	В	Analyte detected in the associated Method Blank above the Reporting Limit	
JAnalyte detected below quantitation limitnNot offered for accreditationNDNot Detected at the Reporting LimitOSample amount is > 4 times amount spikedPDual Column results percent difference > 40%RRPD above laboratory control limitSSpike Recovery outside laboratory control limitsUAnalyzed but not detected above the MDLAcronymDescriptionDUPMethod DuplicateEEPA MethodLCSLaboratory Control SampleLCSLaboratory Control Sample DuplicateMBLKMethod Detection LimitMDLMethod Detection LimitMDLMethod DuplicateFEPA MethodLCSLaboratory Control Sample DuplicateMBLKMethod Detection LimitMDLMethod Detection LimitMDLMethod DuplicateMSMatrix SpikeMSDMatrix SpikePDSPost Digestion SpikePDSPost Digestion SpikePQLPractical Quantitation LimitSDLSample Detection LimitSWSW-846 Method			
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LCSDLaboratory Control Sample DuplicateMBLKMethod BlankMDLMethod Detection LimitMQLMethod Quantitation LimitMSMatrix SpikeMSDMatrix Spike DuplicatePDSPost Digestion SpikePQLPractical Quantitation LimitSDLSample Detection LimitSWSW-846 Method	Е	EPA Method	
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MSDMatrix Spike DuplicatePDSPost Digestion SpikePQLPractical Quantitaion LimitSDLSample Detection LimitSWSW-846 Method	MQL	Method Quantitation Limit	
PDS Post Digestion Spike PQL Practical Quantitaion Limit SDL Sample Detection Limit SW SW-846 Method	MS	Matrix Spike	
PQLPractical Quantitaion LimitSDLSample Detection LimitSWSW-846 Method	MSD	Matrix Spike Duplicate	
SDLSample Detection LimitSWSW-846 Method	PDS	Post Digestion Spike	
SW SW-846 Method	PQL	Practical Quantitaion Limit	
	SDL	Sample Detection Limit	
Units Reported Description	SW	SW-846 Method	
	<u>Units Reporte</u>	d Description	

mg/sample

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK		Date/Time R	Received:	<u>05-Mar-21</u>	<u>11:08</u>
Work Order: <u>21030347</u>		Received by	:	<u>SNH</u>	
Checklist completed by: Stephanie H arrington	05-Mar-21 Date	Reviewed by:	R ob Niem	nan	08-Mar-21 Date
Matrices: Carrier name: <u>FedEx</u>					I
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Prese	ent	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗌	Not Prese	ent 🗌	
Custody seals intact on sample bottles?	Yes	No 🗌	Not Prese	ent 🗹	
Chain of custody present?	Yes 🔽	No 🗌			
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌			
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌			
Samples in proper container/bottle?	Yes 🔽	No 🗌			
Sample containers intact?	Yes 🔽	No 🗌			
Sufficient sample volume for indicated test?	Yes 🔽	No 🗌			
All samples received within holding time?	Yes 🔽	No 🗌			
Container/Temp Blank temperature in compliance?	Yes 🔽	No 🗌			
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes 🗌	No 🗹			
Cooler(s)/Kit(s):					
Date/Time sample(s) sent to storage:					
Water - VOA vials have zero headspace?	Yes	No	No VOA vials	submitted	\checkmark
Water - pH acceptable 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:		
Comments:			
CorrectiveAction:			
			SF
			0.

_	IAIN-OF-CUSTODY			ine Federal Grant Street	t. Suite 1	200.	Con	cord	20 7	03	2	COC # KT	F-03042	1			Gilbane
Pro	ect Name: Hunters Point Sh	lpyard, F	Parcel E RA Pl	nase 2		Lab	orate	ory: /	pratory Group,	, Cincinna	ati, C)H					arcel E Phase 2 Air
	ect Number: J310000400					PO	C									Monitori	ng
WB	S Code: J310000400		,			Shi	o to:	4388	le Milford Rd.,	, Blue Asl	n, Ol	H 45242					
	nments: lipment:				Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP			Code 1 1	e Matrix Air Container/Preservative 1x 250-mL Plastic, 4 D 1x Envelope, None	regrees C				
-	Event: Parcel E Phase 2 Air M	Monitorin	g		1	1	1	1									
					Samp	1							Sample	Depth	(ft bgs)		
	Sample ID	Matrix	Date	Time	Init.							Location ID	Туре	Top - I	Bottom	Cooler	Comments
1	Q0374030-MSE01	A	03/03/2021	0750	KT	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1606.27
2	9764118-MSE01	A	03/03/2021	0750	KT		X	Х				AMSE1	N1	0.00	0.00	1	VOLUME: 1599.71
3	Q0374031-MSE02	A	03/03/2021	0801	КТ	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1673.11
4	9764119-MSE02	A	03/03/2021	0801	КТ	\square	x	x			_	AMSE2	N1	0.00	0.00	1	VOLUME: 1656.90
5	Q0374032-MSE01	A	03/04/2021	0820	KT	X					_	AMSE1	N1	0.00	0.00	1	VOLUME: 1677.08
6	9764120-MSE01	A	03/04/2021	0820	кт	\square	x	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1680.04
7	Q0374033-MSE02	A	03/04/2021	0805	кт	X						AMSE2	N1	0.00	0.00	1	VOLUME: 570.07
8	9764121-MSE02	A	03/04/2021	0805	КТ	T	x	X				AMSE2	N1	0.00	0.00	1	VOLUME: 612.31
Tur	naround Time: 5 days															_	

Relinguished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
40	3/4/21	1400	Fid for 2	742	1400	Shipping Date: 3/4/2021 / FedEx 7730 7057 5481
			2	10121	1108	Received by Laboratory: (Signature, Date, Time) & conditionR
						Custody seal

p.a.



17-Mar-2021

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

Re: HPNS Parcel E-2; J310000400-016

Work Order: 21030712

Dear Brett,

ALS Environmental received 8 samples on 10-Mar-2021 11:15 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 11.

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

Sincerely,



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

Environmental 🐊

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Date: 17-Mar-21

Client:	Gilbane Company
Project:	HPNS Parcel E-2; J310000400-016
Work Order:	21030712

Work Order Sample Summary

Lab Samp II	<u>) Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received H	<u> Iold</u>
21030712-01	Q0374034-MSE01	Air		3/4/2021 14:30	3/10/2021 11:15	
21030712-02	9764122-MSE01	Air		3/4/2021 14:30	3/10/2021 11:15	
21030712-03	Q0374035-MSE02	Air		3/4/2021 14:40	3/10/2021 11:15	
21030712-04	9764123-MSE02	Air		3/4/2021 14:40	3/10/2021 11:15	
21030712-05	Q0374036-MSE01	Air		3/9/2021 09:30	3/10/2021 11:15	
21030712-06	9764124-MSE01	Air		3/9/2021 09:30	3/10/2021 11:15	
21030712-07	Q0374037-MSE02	Air		3/9/2021 09:02	3/10/2021 11:15	
21030712-08	9764125-MSE02	Air		3/9/2021 09:02	3/10/2021 11:15	

Client:	Gilbane Company	
Project:	HPNS Parcel E-2; J310000400-016	Case Narrative
Work Order:	21030712	

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:	: 21030712		
Project:	HPNS Parcel E-2; J310	000400-016			14		
				Analytical R	lesults		
Lab ID:	21030712-01A		С	Collection Date: 3/4/2021 2:30):00 PM		
Client Sample ID	• Q0374034-MSE01			Matrix: AIR			
Analyses							
PM : PM10 40CFI	R 50 APPDIX J		Method: PM10	Air Volume (L): 436280	Analyst: SRL		
Date Analyzed: 3/2	16/2021		Reporting Limit				
		mg/sample	mg/sample	mg/m3			
Particulate as PM	10	23	1.0	0.052			
Lab ID:	21030712-02A		С	Collection Date: 3/4/2021 2:30):00 PM		
Client Sample ID	9764122-MSE01			Matrix: AIR			
Analyses							
TSP 40 CFR 50 A	PPDX B		Method: TSP	Air Volume (L): 448920	Analyst: SRL		
Date Analyzed: 3/2	16/2021		Reporting Limit				
		mg/sample	mg/sample	mg/m3			
Total suspended	particulate	26	1.0	0.058			
METALS BY EPA	METHOD 12 MOD.		Method: E12	Air Volume (L): 448920	Analyst: AZ		
Date Analyzed: 3/	17/2021 12:16		Reporting Limit				
		µg/sample	µg/sample	mg/m3			
Copper		98	25	0.00022			
Lead		ND	25	<0.000056			
Manganese		ND	25	<0.000056			
Lab ID:	21030712-03A		С	Collection Date: 3/4/2021 2:40):00 PM		
Client Sample ID	C Q0374035-MSE02			Matrix: AIR			
Analyses							
PM : PM10 40CFI	R 50 APPDIX J		Method: PM10	Air Volume (L): 452730	Analyst: SRL		
Date Analyzed: 3/2	16/2021		Reporting Limit				
		mg/sample	mg/sample	mg/m3			
Particulate as PM10		18	1.0	0.039			

Date: 17-Mar-21

Gilbane Company

Project:	HPNS Parcel E-2; J310000400-016	Analytical Results
Lab ID:	21030712-04A	Collection Date: 3/4/2021 2:40:00 PM
Client Sampl	e ID: 9764123-MSE02	Matrix: AIR

Analyses

Client:

Analyses					
TSP 40 CFR 50 APP	PDX B		Method: TSP	Air Volume (L): 459100	Analyst: SRL
Date Analyzed: 3/16/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended par	rticulate	24	1.0	0.052	
METALS BY EPA M	IETHOD 12 MOD.		Method: E12	Air Volume (L): 459100	Analyst: AZ
Date Analyzed: 3/17/2021 12:27			Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		130	25	0.00028	
Lead		ND	25	<0.000054	
Manganese		ND	25	<0.000054	
Lab ID:	21030712-05A			Collection Date: 3/9/2021 9:30	·00 AM
Client Sample ID:	Q0374036-MSE01			Matrix: AIR	
Cheft Sample ID.	Q0574050-1015E01				
Analyses					
PM : PM10 40CFR 5	50 APPDIX J		Method: PM10	Air Volume (L): 1657150	Analyst: SRI
Date Analyzed: 3/16/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		23	1.0	0.014	
Lab ID:	21030712-06A		(Collection Date: 3/9/2021 9:30	:00 AM
Client Sample ID:	9764124-MSE01			Matrix: AIR	
Analyses					
TSP 40 CFR 50 APF	PDX B		Method: TSP	Air Volume (L): 1639760	Analyst: SRL
Date Analyzed: 3/16/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended par	rticulate	23	1.0	0.014	
METALS BY EPA M	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1639760	Analyst: AZ
Date Analyzed: 3/17/2	2021 12:31		Reporting Limit		
•				ma ar loss D	
		µg/sample	µg/sample	mg/m3	
Copper		μg/sample 440	μg/sample 25	0.00027	

Note:

Date: 17-Mar-21

Work Order: 21030712

lts

Client:	Gilbane Company	Work Order: 21030712
Project:	HPNS Parcel E-2; J310000400-016	
		Analytical Results

Lab ID:	21030712-07A		0	Collection Date: 3/9/2021 9:02	:00 AM				
Client Sample ID:	Q0374037-MSE02			Matrix: AIR					
Analyses									
PM : PM10 40CFR \$	50 APPDIX J		Method: PM10	Air Volume (L): 1663280	Analyst: SRL				
Date Analyzed: 3/16/	2021		Reporting Limit						
		mg/sample	mg/sample	mg/m3					
Particulate as PM10		83	1.0	0.050					
Lab ID:	21030712-08A		(Collection Date: 3/9/2021 9:02	:00 AM				
Client Sample ID:	9764125-MSE02		Matrix: AIR						
Analyses									
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1688410	Analyst: SRL				
Date Analyzed: 3/16/	2021		Reporting Limit						
		mg/sample	mg/sample	mg/m3					
Total suspended pa	rticulate	25	1.0	0.015					
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1688410	Analyst: AZ				
Date Analyzed: 3/17/	2021 12:35		Reporting Limit						
		µg/sample	µg/sample	mg/m3					
Copper		110	25	0.000066					
Lead		ND	25	<0.000015					
Manganese		ND	25	<0.000015					

Date: 17-Mar-21

Client:	Gilbane Company
Work Order:	21030712
Project:	HPNS Parcel E-2; J310000400-016

QC BATCH REPORT

Batch ID: R189781	Instrument ID: BA	L2		Method	: TSP							
DUP	Sample ID: 21030712-0	2A DUP				ι	Jnits: mg/	sample	Analys	sis Date: 3/16	6/2021	
Client ID: 9764122-M	ISE01	Run ID:	BAL2_2	210316A		Se	qNo: 241	7713	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	26.7	1.0	0		0	0		26.	.1 2.27	20	
The following sample	es were analyzed in this	batch:		1030712-02A 1030712-08A		1030	712-04A	21	030712-06A			

Batch ID: 73250	Instrument ID: ICP	'1		Method	d: E12								
MBLK	Sample ID: MBLK-73250-73250					Units: µg/sample			Analysis Date: 3/17/2021 12:04 PM				
Client ID:		Run ID: ICP1_2103		210317B		Se	SeqNo: 2417960		Prep Date: 3/17/2021		DF: 1	DF: 1	
					SPK Ref			Control	RPD Ref		RPD		
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual	
Copper		ND	100										
Lead		ND	25										
Manganese		ND	100										
LCS	Sample ID: LCS-73250-	-73250				ι	Jnits: µg/s	ample	Analysis	Date: 3/17	7/2021 12:	08 PM	
Client ID:		Run ID: ICP1_210317B			Se	SeqNo: 2417961		Prep Date: 3/17/2021		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
-		401.3	100	450		0	80.2	75-125	0				
Copper Lead		436.8	100 25	450		0	89.2 97.1	75-125	0				
Manganese		416	100	450		0	92.4	75-125	0				
LCSD	Sample ID: LCSD-7325	0 72250				1	Inite: unla	ample	Analysis	Date: 2/47	7/2024 42.	12 DM	
Client ID:	Sample 1D. LC3D-7323		ICP1_210317B				Units: µg/sample SeqNo: 2417962		Analysis Date: 3/17 Prep Date: 3/17/2021		DF: 1		
					SPK Ref Value	UC		Control Limit	RPD Ref Value		RPD Limit	Qual	
Analyte		Result	PQL	SPK Val			%REC			%RPD		Quai	
Copper		396.4 429.2	100 25	450		0	88.1 95.4	75-125 75-125	401.3	1.23	20		
Lead Manganese		429.2 408.5	25 100	450 450		0 0	95.4 90.8	75-125	436.8 416	1.76 1.83	20 20		
MS	Sample ID: 21030712-0		MS Run ID: ICP1_210317B			Units: µg/sample		Analysis Date: 3/17					
Client ID: 9764122	-WSEU1	Kumb.	ICP1_4	2103178		SeqNo: 2417964		Prep Date: 3/17/2021		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper		482.8	100	450	98.	14	85.5	75-125	0				
Lead		428.1	25	450	2.3		94.6	75-125	0				
Manganese		406	100	450	13.	52	87.2	75-125	0				
MSD	Sample ID: 21030712-0)30712-02A MSD			ι	Units: µg/sample		Analysis Date: 3/17		7/2021 12:23 PM			
Client ID: 9764122	-MSE01				SeqNo: 2417965		Prep Date: 3/17/2021		DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper		463.5	100	450	98.	14	81.2	75-125	482.8	4.09	20		
Lead		423.1	25	450	2.3		93.5	75-125	402.0	1.18	20		
Manganese		387.5	100	450	13.		83.1	75-125	406	4.65	20		
The following samples were analyzed in this batch: 21030712-02A 21030712-04A 21030712-06A 21030712-08A 21030712-08A 21030712-08A 21030712-06A 21030712-06A													

Client:	Gilbane Company	QUALIFIERS ,				
Project:	HPNS Parcel E-2; J310000400-016	ACRONYMS, UNITS				
WorkOrder:	21030712	ACKONTINS, UNITS				

Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	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	
0	Sample amount is > 4 times amount spiked	
Р	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	
µg/sample		

mg/sample

Sample Receipt Checklist

Werk Mreiner 12 Mar-21 esignature Reviewed by: Rod Niaman esignature 12 Mar-21 esignature 12 Mar-21 esig	Client Name:	GILBANE-WALNUTCREEK			Date/Time F	Received:	<u>10-Mar-2</u>	<u>1 11:15</u>	
asignature Date asignature Date Matrices: Carrier name: FedEx Date Date <th>Work Order:</th> <th><u>21030712</u></th> <th></th> <th></th> <th>Received by</th> <th>/:</th> <th>DNS</th> <th></th> <th></th>	Work Order:	<u>21030712</u>			Received by	/:	DNS		
Carrier name: FedEx Shipping container/cooler in good condition? Yes No Not Present Custody seals intact on shipping container/cooler? Yes No Not Present Custody seals intact on sample bottles? Yes No Not Present Chain of custody present? Yes No No Not Present Chain of custody signed when relinquished and received? Yes No	Checklist comp				Reviewed by:		man		-
Custody seals intact on shipping container/cooler? Yes No Not Present Custody seals intact on sample bottles? Yes No Not Present Chain of custody present? Yes No Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Samples in proper container/bottle? Yes No Container/bottle? Sample containers intact? Yes No Container/bottle? Sufficient sample volume for indicated test? Yes No Container/Temp Blank temperature in compliance? Sample(s) received on ice? Yes No Sample(s) received on ice? Yes No Date/Time sample(s) sent to storage:		<u>FedEx</u>	I						
Custody seals intact on sample bottles? Yes No Not Present Chain of custody present? Yes No Chain of custody signed when relinquished and received? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Container/Temp Blank temperature in compliance? Yes No Sample(s) received on ice? Yes No Temperature(s)/Thermometer(s):	Shipping contai	ner/cooler in good condition?		Yes 🔽	No 🗌	Not Pres	sent 🗌		
Chain of custody present? Yes No Chain of custody signed when relinquished and received? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Container/Temp Blank temperature in compliance? Yes No Sample(s) received on ice? Yes No Temperature(s)/Thermometer(s):	Custody seals i	ntact on shipping container/cooler?		Yes 🗹	No 🗌	Not Pres	sent 🗌		
Chain of custody signed when relinquished and received? Yes ✓ No Chain of custody agrees with sample labels? Yes ✓ No Samples in proper container/bottle? Yes ✓ No Sample containers intact? Yes ✓ No Sufficient sample volume for indicated test? Yes ✓ No All samples received within holding time? Yes ✓ No Container/Temp Blank temperature in compliance? Yes ✓ No Sample(s) received on ice? Yes ✓ No Temperature(s)/Thermometer(s):	Custody seals i	ntact on sample bottles?		Yes 🔳	No 📃	Not Pres	sent 🔲		
Chain of custody agrees with sample labels? Yes ✓ No Samples in proper container/bottle? Yes ✓ No Sample containers intact? Yes ✓ No Sufficient sample volume for indicated test? Yes ✓ No All samples received within holding time? Yes ✓ No Container/Temp Blank temperature in compliance? Yes ✓ No Sample(s) received on ice? Yes ✓ No Temperature(s)/Thermometer(s):	Chain of custor	ly present?		Yes 🗹	No 🗌				
Samples in proper container/bottle? Yes Sample containers intact? Yes Sufficient sample volume for indicated test? Yes Sufficient sample volume for indicated test? Yes Yes No All samples received within holding time? Yes No Container/Temp Blank temperature in compliance? Yes No Sample(s) received on ice? Temperature(s)/Thermometer(s): Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Yes No No N/A PH adjusted?	Chain of custor	ly signed when relinquished and received?		Yes 🗹	No 🗌				
Sample containers intact? Yes Sufficient sample volume for indicated test? Yes Sufficient sample volume for indicated test? Yes All samples received within holding time? Yes Yes No Container/Temp Blank temperature in compliance? Yes Yes No Sample(s) received on ice? Yes Temperature(s)/Thermometer(s):	Chain of custor	ly agrees with sample labels?		Yes 🗹	No 🗌				
Sufficient sample volume for indicated test? Yes All samples received within holding time? Yes All samples received within holding time? Yes Container/Temp Blank temperature in compliance? Yes Yes No Sample(s) received on ice? Yes No Yes No Temperature(s)/Thermometer(s): Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Yes No NA PH adjusted? Yes No No<	Samples in pro	per container/bottle?		Yes 🗹	No 🗌				
All samples received within holding time? Yes No Container/Temp Blank temperature in compliance? Yes No Sample(s) received on ice? Yes No Temperature(s)/Thermometer(s):	Sample contain	ers intact?		Yes 🗹	No 🗌				
Container/Temp Blank temperature in compliance? Yes Sample(s) received on ice? Yes Temperature(s)/Thermometer(s):	Sufficient samp	le volume for indicated test?		Yes 🗹	No 🗌				
Sample(s) received on ice? Yes Temperature(s)/Thermometer(s): Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Yes No No No No No No No No No NA	All samples rec	eived within holding time?		Yes 🔽	No 🗌				
Temperature(s)/Thermometer(s):	Container/Tem	p Blank temperature in compliance?		Yes 🔽	No 🗌				
Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Yes No No No NA PH adjusted? Yes No NA	• • • •			Yes	No 🗹				
Water - VOA vials have zero headspace? Yes No No VOA vials submitted Water - pH acceptable upon receipt? Yes No N/A pH adjusted? Yes No N/A	Cooler(s)/Kit(s)	:							
Water - pH acceptable upon receipt? Yes No N/A pH adjusted? Yes No N/A	Date/Time sam	ple(s) sent to storage:							
pH adjusted? Yes No N/A	Water - VOA vi	als have zero headspace?		Yes	No	No VOA vial	s submitted	\checkmark	
	Water - pH acc	eptable upon receipt?		Yes 🔲	No 📃	N/A			
				Yes 🔳	No 📃	N/A			

Login Notes:

Client Contacted:	Date Contacted:	Person Contacted:	
Contacted By:	Regarding:		
Comments:			
CorrectiveAction:			
			SF
			0.

	AIN-OF-CUST CORD	ODY	7	Gilk	ane Federal			-	1	i a''	30	7	12		COC # K	Г-0309	21			Gilbane		
Proj	ect Name: Hunters P	oint Sh	ipyard,	Parcel E RA F	hase 2		La	bora	tory:	ALS	Labo	ratory	Group	, Cir	ncinnati, OH	-			Event:	Parcel E Phase 2 Air		
Proj	ect Number: J310000	0400			·														Monitor	Monitoring		
WBS	6 Code: J310000400-	016					Sh	ip to	: 438	38 Gle	əndale	e Milfo	ord Rd	., Blu	ie Ash, OH 45242				1			
	pment:					Analytical Test Method	- Air PM10	Pb Mn Cu	Air TSP						Code Matrix A Air Code Container/Preservative 1 1x 250-mL 1 1x Envelope, None	egrees C						
	Event: Parcel E Phase	o 2 Air I	Ionitorin	0		Analytics	- CAAIR -	- E12 - Air	- N0500 -													
		O L T W P		9		1.	<u> </u>				-		-	+		Sample	Depth	(ft bae)	_			
	Sample ID		Matrix	Date	Time	Samp Init.	İ.								Location ID	Туре		Bottom	Cooler	Comments		
1	Q0374034-MSE01	61	A	03/04/2021	1430	KT	x							1	AMSE1	N2	0.00	0.00	1	VOLUME: 436,28		
2	9764122-MSE01	62	A	03/04/2021	1430	кт		x	x					+	AMSE1	N2	0.00	0.00	1	VOLUME: 448.92		
3	Q0374035-MSE02	53	A	03/04/2021	1440	КТ	x				+			+	AMSE2	N2	0.00	0.00	1	VOLUME: 452.73		
4	9764123-MSE02	04	A	03/04/2021	1440	КТ		x	X		+			1-	AMSE2	N2	0.00	0.00	1	VOLUME: 459.10		
5	Q0374036-MSE01	15	Α	03/09/2021	0930	КТ	X				+			\vdash	AMSE1	N1	0.00	0.00	1	VOLUME: 1657.15		
6	9764124-MSE01	ii.	A	03/09/2021	0930	KT		x	X					\top	AMSE1	N1	0.00	0.00	1	VOLUME: 1639.76		
7	Q0374037-MSE02	53	A	03/09/2021	0902	КТ	Х					Π		1	AMSE2	N1	0.00	0.00	1	VOLUME: 1663.28		
8	9764125-MSE02	08	A	03/09/2021	0902	КТ		х	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1688.41		
Turn	around Time: 5 days																·					

	Relinquished by:	(Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Alrbill Number
_	IN		3/9/4	1400	(Fuber	3/9/21	1400	Shipping Date: 3/9/2021 / FedEx 7731 1016 4804
					JONIA	3/10/21	11:15	·
					Vague 22			Received by Laboratory: (Signature, Date, Time) & condition

Cust, seal on package



19-Mar-2021

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

Re: HPNS Parcel E RA Phase 2; J310000400-016

Work Order: 21030851

Dear Brett,

ALS Environmental received 8 samples on 12-Mar-2021 09:51 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,



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

Environmental 💭

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client:	Gilbane Company
Project:	HPNS Parcel E RA Phase 2; J310000400-016
Work Order:	21030851

Work Order Sample Summary

Lab Samp ID Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
21030851-01 Q0374038-MSE01	Air		3/10/2021 08:34	3/12/2021 09:51	
21030851-02 9764127-MSE01	Air		3/10/2021 08:34	3/12/2021 09:51	
21030851-03 Q0374039-MSE02	Air		3/10/2021 08:42	3/12/2021 09:51	
21030851-04 9764126-MSE02	Air		3/10/2021 08:42	3/12/2021 09:51	
21030851-05 Q0374040-MSE01	Air		3/11/2021 08:04	3/12/2021 09:51	
21030851-06 9764128-MSE01	Air		3/11/2021 08:04	3/12/2021 09:51	
21030851-07 Q0374041-MSE02	Air		3/11/2021 07:47	3/12/2021 09:51	
21030851-08 9764129-MSE02	Air		3/11/2021 07:47	3/12/2021 09:51	

Client:Gilbane CompanyProject:HPNS Parcel E RA Phase 2; J310000400-016Case NarrativeWork Order:21030851

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
Project:	HPNS Parcel E RA Phase 2; J310000400-016

Work Order: 21030851

Analytical Results

Lab ID:	21020951 01 4			Collection Date: 3/10/2021 8:3	4.00 AM
	21030851-01A				4:00 AM
Client Sample ID:	Q0374038-MSE01			Matrix: AIR	
Analyses					
PM : PM10 40CFR 5	50 APPDIX J		Method: PM10	Air Volume (L): 1581520	Analyst: SRL
Date Analyzed: 3/16/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		76	1.0	0.048	
Lab ID:	21030851-02A			Collection Date: 3/10/2021 8:3-	4:00 AM
Client Sample ID:	9764127-MSE01			Matrix: AIR	
Analyses					
rsp 40 CFR 50 APF	PDX B		Method: TSP	Air Volume (L): 1567040	Analyst: SRL
Date Analyzed: 3/16/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended par	rticulate	21	1.0	0.014	
METALS BY EPA M	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1567040	Analyst: AZ
Date Analyzed: 3/17/2	2021 12:47		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		130	25	0.000085	
Lead		ND	25	<0.000016	
Manganese		ND	25	<0.000016	
Lab ID:	21030851-03A			Collection Date: 3/10/2021 8:4	2:00 AM
Client Sample ID:	Q0374039-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFR 5	50 APPDIX J		Method: PM10	Air Volume (L): 1615850	Analyst: SRL
Date Analyzed: 3/16/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		65	1.0	0.040	

Client:Gilbane CompanyProject:HPNS Parcel E RA Phase 2; J310000400-016

Lab ID: 21030851-04A Collection Date: 3/10/2021 8:42:00 AM Client Sample ID: 9764126-MSE02 Matrix: AIR Analyses TSP 40 CFR 50 APPDX B Method: TSP Analyst: SRL Air Volume (L): 1629900 Date Analyzed: 3/16/2021 **Reporting Limit** mg/sample mg/sample mg/m3 Total suspended particulate 1.0 0.0093 15 METALS BY EPA METHOD 12 MOD. Method: E12 Analyst: AZ Air Volume (L): 1629900 Date Analyzed: 3/17/2021 12:50 Reporting Limit µg/sample µg/sample mg/m3 290 25 0.00018 Copper Lead ND 25 < 0.000015 ND 25 < 0.000015 Manganese Lab ID: Collection Date: 3/11/2021 8:04:00 AM 21030851-05A Client Sample ID: Q0374040-MSE01 Matrix: AIR Analyses PM : PM10 40CFR 50 APPDIX J Method: PM10 Air Volume (L): 779360 Analyst: SRL Date Analyzed: 3/16/2021 **Reporting Limit** mg/sample mg/sample mg/m3 1.0 Particulate as PM10 45 0.058 Lab ID: 21030851-06A Collection Date: 3/11/2021 8:04:00 AM Client Sample ID: 9764128-MSE01 Matrix: AIR Analyses TSP 40 CFR 50 APPDX B Method: TSP Analyst: SRL Air Volume (L): 1572230 Date Analyzed: 3/16/2021 **Reporting Limit** mg/sample mg/sample mg/m3 Total suspended particulate 12 1.0 0.0078 METALS BY EPA METHOD 12 MOD. Method: E12 Analyst: AZ Air Volume (L): 1572230 Date Analyzed: 3/17/2021 12:54 **Reporting Limit** µg/sample µg/sample mg/m3 Copper 270 25 0.00017 Lead ND 25 < 0.000016 ND < 0.000016 Manganese 25

Work Order: 21030851

Analytical Results

Note:

Client:Gilbane CompanyProject:HPNS Parcel E RA Phase 2; J310000400-016

Work Order: 21030851

Date: 19-Mar-21

Analytical Results

Lab ID:	21030851-07A		C	Collection Date: 3/11/2021 7:4	7:00 AM
Client Sample ID:	Q0374041-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFR \$	50 APPDIX J		Method: PM10	Air Volume (L): 459100	Analyst: SRL
Date Analyzed: 3/16/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		52	1.0	0.11	
Lab ID:	21030851-08A		(Collection Date: 3/11/2021 7:4	7:00 AM
Client Sample ID:	9764129-MSE02			Matrix: AIR	
Analyses					
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 461020	Analyst: SRL
Date Analyzed: 3/16/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	3.6	1.0	0.0079	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 461020	Analyst: AZ
Date Analyzed: 3/17/	2021 12:58		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		90	25	0.00020	
Lead		ND	25	<0.000054	
Manganese		ND	25	<0.000054	

QC BATCH REPORT

Client:Gilbane CompanyWork Order:21030851Project:HPNS Parcel E RA Phase 2; J310000400-016

Batch ID: R189781	Instrument ID: BA	L2		Method	: TSP							
DUP	Sample ID: 21030712-0	2A DUP				U	nits: mg/	sample	Analysis	s Date: 3/16	6/2021	
Client ID:		Run ID	BAL2_	210316A		Sec	No: 241	7713	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	iculate	26.7	1.0	0		0	0		26.1	2.27	20	
The following sampl	es were analyzed in this	batch:		1030851-02A 1030851-08A		10308	851-04A	21	030851-06A			

Batch ID: 73250 Instrument ID: ICP1 Method: E12 MBLK Sample ID: MBLK-73250-73250 Units: µg/sample Analysis Date: 3/17/2021 12:04 PM Prep Date: 3/17/2021 Client ID: Run ID: ICP1_210317B SeqNo: 2417960 DF: 1 RPD Ref RPD SPK Ref Control Value Limit Value Limit Analyte Result PQL SPK Val %REC %RPD Qual ND 100 Copper ND Lead 25 ND Manganese 100

LCS	Sample ID: LCS-73250-	ample ID: LCS-73250-73250							Analysi	Analysis Date: 3/17/2021 12:08 PM			
Client ID:		Run IE	D: ICP1_21	10317B		S	eqNo: 2417	961	Prep Date: 3/1	7/2021	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper		401.3	100	450		0	89.2	75-125	C)		Qua	
Lead		436.8	25	450		0	97.1	75-125	C)			
Manganese		416	100	450		0	92.4	75-125	C)			

LCSD	Sample ID: LCSD-73250			Units: µg/s	ample	Analysis Date: 3/17/2021 12:12 PM						
Client ID:		Run ID:	ICP1_2	10317B		SeqNo: 2417962			Prep Date: 3/17	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		396.4	100	450		0	88.1	75-125	401.3	1.23	20	
Lead		429.2	25	450		0	95.4	75-125	436.8	1.76	20	
Manganese		408.5	100	450		0	90.8	75-125	416	1.83	20	

MS	Sample ID: 21030712-02	2AMS				Units: µg/ s	sample	Analys	Analysis Date: 3/17/2021 12:20 PM			
Client ID:		Run ID:	Run ID: ICP1_210317B				7964	Prep Date: 3/1	7/2021	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper		482.8	100	450	98.1	4 85.5	75-125	()			
Lead		428.1	25	450	2.35	68 94.6	75-125	()			
Manganese		406	100	450	13.5	87.2	75-125	()			

MSD	Sample ID: 21030712-024	Sample ID: 21030712-02A MSD							Analysis	Date: 3/17	/2021 12:	23 PM
Client ID:		Run ID: ICP1_210317B				Se	qNo: 2417	965	Prep Date: 3/17	/2021	DF: 1	
Analyte	R	Result	PQL	SPK Val	SPK Rei Value	f	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	2	463.5	100	450	98	.14	81.2	75-125	482.8	4.09	20	
Lead	2	423.1	25	450	2.3	358	93.5	75-125	428.1	1.18	20	
Manganese		387.5	100	450	13	.52	83.1	75-125	406	4.65	20	
The following sar	mples were analyzed in this ba	atch:		1030851-02A 1030851-08A		21030)851-04A	21	030851-06A			

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Client: Project: WorkOrder:	Gilbane Company HPNS Parcel E RA Phase 2; J310000400-016 21030851	QUALIFIERS, ACRONYMS, UNITS		
Qualifier	Description			
*	Value exceeds Regulatory Limit			
а	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			
0	Sample amount is > 4 times amount spiked			
Р	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	1 Description			
µg/sample				

mg/sample

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK		Date/Time R	Received:	<u>12-Mar-21</u>	<u>09:51</u>
Work Order: <u>21030851</u>		Received by	<i>r</i> :	<u>DNS</u>	
Checklist completed by: J an WIIC0X	12-Mar-21 Date	Reviewed by:	R ob N ien eSignature	nan	16-Mar-21 Date
Matrices: <u>air</u> Carrier name: <u>FedEx</u>					I
Shipping container/cooler in good condition?	Yes 🔽	No 🗌	Not Prese	ent	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗌	Not Prese	ent	
Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Prese	ent 🗹	
Chain of custody present?	Yes 🗹	No 🗌			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌			
Samples in proper container/bottle?	Yes 🗹	No 🗌			
Sample containers intact?	Yes 🗹	No 🗌			
Sufficient sample volume for indicated test?	Yes 🔽	No 🗌			
All samples received within holding time?	Yes 🔽	No 🗌			
Container/Temp Blank temperature in compliance?	Yes 🔽	No 🗌			
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes	No 🗹			
Cooler(s)/Kit(s):					
Date/Time sample(s) sent to storage:					_
Water - VOA vials have zero headspace?	Yes	No	No VOA vials	submitted	\checkmark
Water - pH acceptable 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:	
Comments:		
CorrectiveAction:		
		SF

SRC Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Gilbane Federal

21036851



Ргој	ect Name: Hunters Point	ase 2			Laboratory: ALS Laboratory Group, Cincinnati, OH POC: Please insert point of contact , insert laboratory phone number , insert email						Event: Parcel E Phase 2 Air Monitoring						
	ect Number: J310000400					POC	C: PI	ease	ert point of co	ntact, ins	sert labora	tory phone numb	er, insert er	nail			,
-	S Code: J310000400-016					Ship	o to:										
	ipment:				Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP			1	Matrix Air Container/Preservativ 1x 250-mL Plastic, 4 1x Envelope, None					
-	Event: Parcel E Phase 2	Air Monitoring	g			1	1	1									
		Matrix	Date	Time	Samp Init.							Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
-	Sample ID Q0374038-MSE01	Matrix A	03/10/2021	0834	KT	x						AMSE1	N1	0.00	0.00	1	VOLUME: 1581.52
1		A	03/10/2021	0834	кт		X	x			1	AMSE1	N1	0.00	0.00	1	VOLUME: 1567.04
2	9764127-MSE01		03/10/2021	0834	KT	X	-		+++	++		AMSE2	N1	0.00	0.00	1	VOLUME: 1615.85
3	Q0374039-MSE02	A		0842	KT		x	x	-+-+-+		-	AMSE2	N1	0.00	0.00	1	VOLUME: 1629.90
4	9764126-MSE02	A	03/10/2021		KT	X	L~			++	1	AMSE1	N1	0.00	0.00	1	VOLUME: 779.36
5	Q0374040-MSE01	A	03/11/2021	0804	KT	1^	x	x				AMSE1	N1	0.00	0.00	1	VOLUME: 1572.23
6	9764128-MSE01	A	03/11/2021	0804	-	x	-			++		AMSE2	N1	0.00	0.00	1	VOLUME: 459.10
7	Q0374041-MSE02	A	03/11/2021	0747	KT	×	+	V		++		AMSE2	N1	0.00	0.00	1	VOLUME: 461.02
8	9764129-MSE02	A	03/11/2021	0747	КТ		X	X									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
Water and the second se	3/11/4	1400	Fed (4 Dave	3/11/21 3/12/21	1705	Shipping Date: 3/11/2021 / FedEx 7731 3403 3800 Received by Laboratory: (Signature, Date, Time) & condition
Gilban ono rus				0	0]	De tal Bore tal

Gilbane.COC_Field March 11, 2021

Tella Clustualy Seal

Page 1 of 1



26-Mar-2021

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

Re: HPNS Parcel E; J310000400-016

Work Order: 21031181

Dear Brett,

ALS Environmental received 8 samples on 19-Mar-2021 10:10 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,



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

Environmental 💭

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Date: 26-Mar-21

Client:	Gilbane Company
Project:	HPNS Parcel E; J310000400-016
Work Order:	21031181

Work Order Sample Summary

Lab Samp ID Client	t Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	<u>Hold</u>
21031181-01 Q0374	4044-MSE01	Air		3/17/2021 07:41	3/19/2021 10:10	
21031181-02 97641	30-MSE01	Air		3/17/2021 07:41	3/19/2021 10:10	
21031181-03 Q0374	4045-MSE02	Air		3/17/2021 06:59	3/19/2021 10:10	
21031181-04 97641	32-MSE02	Air		3/17/2021 06:59	3/19/2021 10:10	
21031181-05 Q0374	4043-MSE01	Air		3/18/2021 08:34	3/19/2021 10:10	
21031181-06 98942	34-MSE01	Air		3/18/2021 08:34	3/19/2021 10:10	
21031181-07 Q0374	4042-MSE02	Air		3/18/2021 08:15	3/19/2021 10:10	
21031181-08 98942	33-MSE02	Air		3/18/2021 08:15	3/19/2021 10:10	

Client:	Gilbane Company	
Project:	HPNS Parcel E; J310000400-016	Case Narrative
Work Order:	21031181	

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.

Gilbane Company

Client:

	HPNS Parcel E; J31000	00400-016	Analytical Results					
				J J J J J J J J J J J J J J J J J J J				
Lab ID:	21031181-01A		C	Collection Date: 3/17/2021 7:4	1:00 AM			
Client Sample ID:	Q0374044-MSE01			Matrix: AIR				
Analyses								
PM : PM10 40CFR	50 APPDIX J		Method: PM10	Air Volume (L): 1480410	Analyst: SRL			
Date Analyzed: 3/24	4/2021		Reporting Limit					
		mg/sample	mg/sample	mg/m3				
Particulate as PM10		28	1.0	0.019				
Lab ID: 21031181-02A			(Collection Date: 3/17/2021 7:4	1:00 AM			
Client Sample ID: 9764130-MSE01				Matrix: AIR				
Analyses								
FSP 40 CFR 50 A	PPDX B		Method: TSP	Air Volume (L): 1479960	Analyst: SRL			
Date Analyzed: 3/24	4/2021		Reporting Limit					
		mg/sample	mg/sample	mg/m3				
Total suspended p	articulate	25	1.0	0.017				
METALS BY EPA METHOD 12 MOD.			Method: E12	Air Volume (L): 1479960	Analyst: AZ			
Date Analyzed: 3/24	4/2021 13:47		Reporting Limit					
		µg/sample	µg/sample	mg/m3				
Copper		310	25	0.00021				
Lead		ND	25	<0.000017				
Manganese		ND	25	<0.000017				
Lab ID:	21031181-03A		0	Collection Date: 3/17/2021 6:5	9:00 AM			
Client Sample ID:	Q0374045-MSE02			Matrix: AIR				
Analyses								
PM : PM10 40CFR	50 APPDIX J		Method: PM10	Air Volume (L): 1493870	Analyst: SRL			
Date Analyzed: 3/24	4/2021		Reporting Limit					
		mg/sample	mg/sample	mg/m3				
Particulate as PM1	0	3.0	1.0	0.0020				

Date: 26-Mar-21

Work Order: 21031181

< 0.000015

< 0.000015

ALS Environmental

Client:

Project:

Lab ID:	21031181-04A			Collection Date: 3/17/2021 6:5	9:00 AM
Client Sample ID:	9764132-MSE02			Matrix: AIR	
Analyses					
TSP 40 CFR 50 AP	PDX B		Method: TSP	Air Volume (L): 1512150	Analyst: SR
Date Analyzed: 3/24/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended particulate		8.5	1.0	0.0056	
METALS BY EPA METHOD 12 MOD.			Method: E12	Air Volume (L): 1512150	Analyst: AZ
Date Analyzed: 3/24/	2021 13:59		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		170	25	0.00011	
Lead		ND	25	<0.000017	
Manganese		ND	25	<0.000017	
Lab ID:	21031181-05A			Collection Date: 3/18/2021 8:3	4:00 AM
Client Sample ID:	O0374043-MSE01			Matrix: AIR	

Analyses

Lead

Note:

Manganese

PM : PM10 40CFR \$	50 APPDIX J		Method: PM10	Air Volume (L): 1557590	Analyst: SRL
Date Analyzed: 3/24/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		58	1.0	0.037	
Lab ID:	21031181-06A			Collection Date: 3/18/2021 8:3	4:00 AM
Client Sample ID:	9894234-MSE01			Matrix: AIR	
Analyses					
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1671280	Analyst: SRL
Date Analyzed: 3/24/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	25	1.0	0.015	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1671280	Analyst: AZ
Date Analyzed: 3/24/	2021 14:10		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		300	25	0.00018	

25

25

ND

ND

Gilbane Company

HPNS Parcel E; J310000400-016

Date: 26-Mar-21

Work Order: 21031181

Analytical Results

Client:	Gilbane Company	Work Order: 2103118
Project:	HPNS Parcel E; J310000400-016	
		Analytical Results

Lab ID:	21031181-07A		C	Collection Date: 3/18/2021 8:1	5:00 AM
Client Sample ID:	Q0374042-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFR \$	50 APPDIX J		Method: PM10	Air Volume (L): 1715990	Analyst: SRL
Date Analyzed: 3/24/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		73	1.0	0.042	
Lab ID:	21031181-08A		C	Collection Date: 3/18/2021 8:1	5:00 AM
Client Sample ID:	9894233-MSE02			Matrix: AIR	
Analyses					
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1751800	Analyst: SRL
Date Analyzed: 3/24/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	14	1.0	0.0078	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1751800	Analyst: AZ
Date Analyzed: 3/24/	2021 14:14		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		400	25	0.00023	
Lead		ND	25	<0.000014	
Manganese		ND	25	<0.000014	

Date: 26-Mar-21

Client:	Gilbane Company
Work Order:	21031181
Project:	HPNS Parcel E; J310000400-016

QC BATCH REPORT

Batch ID: R190108	Instrument ID: BA	L2		Method	t: TSP							
DUP	Sample ID: 21031181-	02A DUP				U	nits: mg/ s	sample	Analysis	Date: 3/24	/2021	
Client ID: 9764130-M	SE01	Run ID	BAL2_	210324A		Seq	No: 2424	4736	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	26.62	1.0	0		0	0		25.19	5.52	20	
The following sample	es were analyzed in this	batch:		1031181-02A 1031181-08A		10311	81-04A	21	031181-06A			

Client: Work Order: Project:	Gilbane Company 21031181 HPNS Parcel E; J310	000400-02	16						QCI	BATC	H REI	PORT
Batch ID: R190109	Instrument ID: BA	L2		Method	d: PM10							
DUP	Sample ID: 21031181-0	7A DUP					Units: mg/ s	sample	Analysis	Date: 3/24	1/2021	
Client ID: Q0374042	2-MSE02	Run ID:	BAL2_2	10324B		Se	eqNo: 2424	4744	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		72.72	1.0	0		0	0		72.55	0.234	20	
The following samp	bles were analyzed in this	batch:		031181-01A 031181-07A		103′	1181-03A	21	031181-05A			

Batch ID: 73384 Instrument ID: ICP1 Method: E12

MBLK	Sample ID: MBLK-7338	4-73384				Units: µg/s	sample	Analys	sis Date: 3/2	4/2021 01:	36 PM
Client ID:		Run ID	CP1_2	10324A		SeqNo: 2422	2954	Prep Date: 3/	24/2021	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-73384-7	73384				I	Units: µg/s	ample	Analys	sis Date: 3/2	4/2021 01:	39 PM
Client ID:		Run ID:	ICP1_21	10324A		Se	eqNo: 2422	955	Prep Date: 3/	24/2021	DF: 1	
A web to		Decult	DOI	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Analyte		Result	PQL	SPK vai	value		%REC	Linin	Value	%RPD		Quai
Copper		420	100	450		0	93.3	75-125		0		
Lead		433.5	25	450		0	96.3	75-125		0		
Manganese		399.2	100	450		0	88.7	75-125		0		

LCSD	Sample ID: LCSD-73384	-73384				l	Units: µg/s	ample	Analysis	Date: 3/24	/2021 01:4	I3 PM
Client ID:		Run II	D: ICP1_21	0324A		Se	eqNo: 2422	956	Prep Date: 3/24	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		403	100	450		0	89.6	75-125	420	4.14	20	
Lead		418.4	25	450		0	93	75-125	433.5	3.56	20	
Manganese		391.1	100	450		0	86.9	75-125	399.2	2.05	20	

MS	Sample ID: 21031181-04	4AMS				Units: µg/s	ample	Analysi	s Date: 3/2	4/2021 02:0	2 PM
Client ID:	9764132-MSE02	Run ID:	ICP1_2	10324A		SeqNo: 2422	2959	Prep Date: 3/2	4/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		548.6	100	450	169		75-125	0			
Lead		409.2	25	450	2.54	90.4	75-125	0)		
Manganes	se	357.2	100	450	4.29	6 78.4	75-125	0			

MSD	Sample ID: 21031181-	04AMSD				Units:	ıg/sample	Analysis	s Date: 3/24	/2021 02:	06 PM
Client ID: 976413	32-MSE02	Run ID	CP1_2	10324A		SeqNo: 2	422960	Prep Date: 3/24	!/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%RE	Contro C Limit	I RPD Ref Value	%RPD	RPD Limit	Qual
Copper		550.4	100	450	169	.7 84	6 75-125	5 548.6	0.328	20	
Lead		406.1	25	450	2.5	47 89	7 75-12	5 409.2	0.762	20	
Manganese		364.1	100	450	4.2	96 8	0 75-12	5 357.2	1.91	20	
The following sa	mples were analyzed in this	batch:		1031181-02A 1031181-08A		031181-0	4A 2	1031181-06A			

Client: Project: WorkOrder:	Gilbane Company HPNS Parcel E; J310000400-016 21031181	QUALIFIERS, ACRONYMS, UNITS
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
Е	Value above quantitation range	
Н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
n	Not offered for accreditation	
ND O	Not Detected at the Reporting Limit	
P	Sample amount is > 4 times amount spiked 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	
	Method Blank	
MBLK	Method brank	
MBLK MDL	Method Detection Limit	
MDL	Method Detection Limit	
MDL MQL	Method Detection Limit Method Quantitation Limit	
MDL MQL MS	Method Detection Limit Method Quantitation Limit Matrix Spike	
MDL MQL MS MSD	Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate	
MDL MQL MS MSD PDS	Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate Post Digestion Spike	
MDL MQL MS MSD PDS PQL	Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate Post Digestion Spike Practical Quantitaion Limit	

mg/sample

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK		Date/Time F	Received: <u>19</u>	-Mar-21	<u>10:10</u>	
Work Order: <u>21031181</u>		Received by	r: <u>SI</u>	<u>NH</u>		
Checklist completed by: Stephanie H arrington	19-Mar-21 Date	Reviewed by:	R ob Nieman			23-Mar-21 Date
Matrices: Carrier name: <u>FedEx</u>			-		I	
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present			
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗌	Not Present			
Custody seals intact on sample bottles?	Yes	No 🗌	Not Present	\checkmark		
Chain of custody present?	Yes 🗹	No 🗌				
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌				
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌				
Samples in proper container/bottle?	Yes 🗹	No 🗌				
Sample containers intact?	Yes 🗹	No 🗌				
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌				
All samples received within holding time?	Yes 🗹	No 🗌				
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌				
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes 🗌	No 🗹				
Cooler(s)/Kit(s):						
Date/Time sample(s) sent to storage:						
Water - VOA vials have zero headspace?	Yes	No	No VOA vials sub	mitted	\checkmark	
Water - pH acceptable 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:		
Comments:]
CorrectiveAction:			1
			SF

CHAIN-OF-CUSTODY Gilbane Feder				ne Federal							\sim		COC # K	T-03182	21			Gilbane
n	CORD									a construction of the second sec	4	l	031181					Instance
Pro	ject Name: Hunters Point	Shipyard, F	Parcel E RA P	hase 2		Lat	orat	ory:	.S Lab	oratory	Group	, Cino	cinnati, OH					arcel E Phase 2 Air
Pro	ject Number: J310000400																Monitori	ıg
WB	S Code: J310000400-016					Shi	p to:	438	Glenda	ale Milf	ord Rd.	, Blue	Ash, OH 45242]	
Col	nments:												Code Matrix A Air					······
													Code Container/Preservativ					
													1 1x 250-mL Plastic, 4	Degrees C				
					ğ								1 1x Envelope, None					
					otho													
Eqi	Jipment:				Analytical Test Method		E12 - Aii	N0500 - Air TSP										
	Event: Parcel E Phase 2 /	Air Monitorin	9			1	1	1										
					Samp									Sample	<u></u>	(ft bgs)		
	Sample ID	Matrix	Date	Time	Init.								Location ID	Туре		Bottom	Cooler	Comments
1	Q0374044-MSE01	A	03/17/2021	0741	KT	X	ļ						AMSE1	N1	0.00	0.00	1	VOLUME: 1480.41
2	9764130-MSE01	A	03/17/2021	0741	KT		Х	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1479.96
3	Q0374045-MSE02	A	03/17/2021	0659	KT	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1493.87
4	9764132-MSE02	A	03/17/2021	0659	KT		Х	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1512.15
5	Q0374043-MSE01	A	03/18/2021	0834	KT	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1557.59
6	9894234-MSE01	A	03/18/2021	0834	KT		X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1671.28
7	Q0374042-MSE02	A	03/18/2021	0815	KT	X							AMSE2	Nt	0.00	0.00	1	VOLUME: 1715.99
8	9894233-MSE02	A	03/18/2021	0815	KT		X	X					AMSE2	Nt	0.00	0.00	1	VOLUME: 1751.80
Tu	naround Time: 5 days		<u>د</u>	£i		-£		<u></u>	<u></u>				A	<u>.</u>	3	1		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
Water >	3 18 21	1400	Edlex	3/12/21	1400	Shipping Date: 3/18/2021 / FedEx 7731 9982 3635
	<i></i>			12		
				3/19/21	1010	Received by Laboratory: (Signature, Date, Time) & condition
						Codar
Gilbane.COC_Field March 18, 2021						CUSTORY SEAL Page 1 of 1



01-Apr-2021

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

Re: HPNS Parcel E; J310000400-016

Work Order: 21031380

Dear Brett,

ALS Environmental received 12 samples on 24-Mar-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 14.

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

Sincerely,



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

Environmental 🐊

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client:	Gilbane Company
Project:	HPNS Parcel E; J310000400-016
Work Order:	21031380

Work Order Sample Summary

Lab Samp ID Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
21031380-01 Q0424237-MSE01	Air		3/19/2021 08:45	3/24/2021 10:30	
21031380-02 9894235-MSE01	Air		3/19/2021 08:45	3/24/2021 10:30	
21031380-03 Q0424236-MSE02	Air		3/19/2021 08:18	3/24/2021 10:30	
21031380-04 9894236-MSE02	Air		3/19/2021 08:18	3/24/2021 10:30	
21031380-05 Q0424238-MSE01	Air		3/19/2021 14:28	3/24/2021 10:30	
21031380-06 9894237-MSE01	Air		3/19/2021 14:28	3/24/2021 10:30	
21031380-07 Q0424239-MSE02	Air		3/19/2021 14:45	3/24/2021 10:30	
21031380-08 9894238-MSE02	Air		3/19/2021 14:45	3/24/2021 10:30	
21031380-09 Q0424241-MSE01	Air		3/23/2021 08:00	3/24/2021 10:30	
21031380-10 9894239-MSE01	Air		3/23/2021 08:00	3/24/2021 10:30	
21031380-11 Q0424240-MSE02	Air		3/23/2021 07:30	3/24/2021 10:30	
21031380-12 9894240-MSE02	Air		3/23/2021 07:30	3/24/2021 10:30	

Date: 01-Apr-21

Client:	Gilbane Company	
Project:	HPNS Parcel E; J310000400-016	Case Narrative
Work Order:	21031380	

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: 21031380			
Project:	HPNS Parcel E; J31000	00400-016		Analytical R	esults		
Lab ID: Client Sample ID	21031380-01A • Q0424237-MSE01			Collection Date: 3/19/2021 8:4 Matrix: AIR	5:00 AM		
Analyses							
PM : PM10 40CFF Date Analyzed: 3/3		<i></i>	Method: PM10 Reporting Limit	Air Volume (L): 1638660	Analyst: SRL		
Particulate as PM	10	mg/sample 18	mg/sample 1.0	mg/m3 0.011			
Lab ID: Client Sample ID Analyses	21031380-02A 9894235-MSE01			Collection Date: 3/19/2021 8:4 Matrix: AIR	5:00 AM		
TSP 40 CFR 50 A Date Analyzed: 3/3		mg/sample	Method: TSP Reporting Limit mg/sample	Air Volume (L): 1631840 mg/m3	Analyst: SRL		
Total suspended	particulate	23	1.0	0.014			
	METHOD 12 MOD.		Method: E12	Air Volume (L): 1631840	Analyst: AZ		
Date Analyzed: 3/3	31/2021 17:30	µg/sample	Reporting Limit µg/sample	mg/m3			
Copper		460	25	0.00028			
Lead Manganese		ND ND	25 25	<0.000015 <0.000015			
Lab ID: Client Sample ID	21031380-03A • Q0424236-MSE02			Collection Date: 3/19/2021 8:1 Matrix: AIR	8:00 AM		
Analyses							
PM : PM10 40CFF Date Analyzed: 3/3		mg/sample	Method: PM10 Reporting Limit mg/sample	Air Volume (L): 1484060 mg/m3	Analyst: SRL		
	10	9.2	1.0	0.0062			

Gilbane Company

HPNS Parcel E; J310000400-016

Client:

Project:

Copper		190	25	0.00011	
Date / malyzea. 3/31/	2021 17.41	µg/sample	µg/sample	mg/m3	
Date Analyzed: 3/31/	2021 17.41		Reporting Limit	()	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1666390	Analyst: AZ
Total suspended pa	rticulate	16	1.0	0.0098	
		mg/sample	mg/sample	mg/m3	
Date Analyzed: 3/31/2021			Reporting Limit		
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1666390	Analyst: SRI
Analyses					
Client Sample ID:	9894236-MSE02			Matrix: AIR	
Lab ID:	21031380-04A			Collection Date: 3/19/2021 8:1	8:00 AM

Total suspended par	rticulate	16	1.0	0.0098	
METALS BY EPA M	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1666390	Analyst: AZ
Date Analyzed: 3/31/2021 17:41			Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		190	25	0.00011	
Lead		ND	25	<0.000015	
Manganese		ND	25	<0.000015	
Lab ID:	21031380-05A		(Collection Date: 3/19/2021 2:2	8:00 PM
Client Sample ID:	Q0424238-MSE01			Matrix: AIR	
Analyses					
PM : PM10 40CFR 5	50 APPDIX J		Method: PM10	Air Volume (L): 382890	Analyst: SRL
Date Analyzed: 3/31/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		9.4	1.0	0.025	
Lab ID:	21031380-06A		(Collection Date: 3/19/2021 2:2	8:00 PM
Client Sample ID:	9894237-MSE01			Matrix: AIR	
Analyses					
TSP 40 CFR 50 APF	PDX B		Method: TSP	Air Volume (L): 383770	Analyst: SRL
Date Analyzed: 3/31/2	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended par	rticulate	17	1.0	0.044	
METALS BY EPA M	IETHOD 12 MOD.		Method: E12	Air Volume (L): 383770	Analyst: AZ
Date Analyzed: 3/31/2	2021 17:45		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		73	25	0.00019	
		ND	25	<0.000065	
Lead			-		

Note:

Date: 01-Apr-21

Work Order: 21031380

Analytical Results

ALS Environmental

Client:

Client: Project:	Gilbane Company HPNS Parcel E; J31000	00400-016		Work Order: 21031380			
				Analytical R	esults		
Lab ID:	21031380-07A			Collection Date: 3/19/2021 2:4	5:00 PM		
Client Sample ID	: Q0424239-MSE02			Matrix: AIR			
Analyses							
PM : PM10 40CFF	8 50 APPDIX J		Method: PM10	Air Volume (L): 305380	Analyst: SRL		
Date Analyzed: 3/3	1/2021		Reporting Limit				
		mg/sample	mg/sample	mg/m3			
Particulate as PM1	0	10	1.0	0.033			
Lab ID:	21031380-08A			Collection Date: 3/19/2021 2:4	.5:00 PM		
Client Sample ID				Matrix: AIR			
Analyses							
TSP 40 CFR 50 A	PPDX B		Method: TSP	Air Volume (L): 349800	Analyst: SRL		
Date Analyzed: 3/3	1/2021		Reporting Limit				
		mg/sample	mg/sample	mg/m3			
Total suspended p	particulate	17	1.0	0.049			
METALS BY EPA	METHOD 12 MOD.		Method: E12	Air Volume (L): 349800	Analyst: AZ		
Date Analyzed: 3/3	1/2021 17:57		Reporting Limit				
		µg/sample	µg/sample	mg/m3			
Copper		50	25	0.00014			
Lead		ND	25	<0.000071			
Manganese		ND	25	<0.000071			
Lab ID:	21031380-09A			Collection Date: 3/23/2021 8:0	0:00 AM		
Client Sample ID	: Q0424241-MSE01			Matrix: AIR			
Analyses							
PM : PM10 40CFF	8 50 APPDIX J		Method: PM10	Air Volume (L): 1630520	Analyst: SRL		
Date Analyzed: 3/3	1/2021		Reporting Limit				
Particulate as PM1	0	mg/sample 20	mg/sample	mg/m3 0.012			
	U	20	1.0	0.012			

ALS Environmental

Gilbane Company

HPNS Parcel E; J310000400-016

Client:

Project:

Lab ID:	21031380-10A			Collection Date: 3/23/2021 8:0	0:00 AM
Client Sample ID:	9894239-MSE01			Matrix: AIR	
Analyses					
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1596060	Analyst: SRI
Date Analyzed: 3/31/	2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	54	1.0	0.034	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1596060	Analyst: AZ
Date Analyzed: 3/31/	2021 18:00		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		380	25	0.00024	
Lead		ND	25	<0.000016	
Manganese		ND	25	<0.000016	

Lab ID: Client Sample ID: Q0424240-MSE02

21031380-11A

Collection Date: 3/23/2021 7:30:00 AM

Matrix: AIR

Analyses

PM : PM10 40CFR (50 APPDIX J		Method: PM10	Air Volume (L): 1562370	Analyst: SRL		
Date Analyzed: 3/31/	2021		Reporting Limit				
		mg/sample	mg/sample	mg/m3			
Particulate as PM10		19	1.0	0.012			
Lab ID:	21031380-12A		(Collection Date: 3/23/2021 7:3	0:00 AM		
Client Sample ID: 9894240-MSE02				Matrix: AIR			
Analyses							
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1680050	Analyst: SRL		
Date Analyzed: 3/31/	2021		Reporting Limit				
		mg/sample	mg/sample	mg/m3			
Total suspended pa	rticulate	40	1.0	0.024			
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1680050	Analyst: AZ		
Date Analyzed: 3/31/	2021 18:04		Reporting Limit				

	µg/sample	µg/sample	mg/m3	
Copper	71	25	0.000042	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.00015	

Note:

Date: 01-Apr-21

Work Order: 21031380

Analytical Results

Client:	Gilbane Company
Work Order:	21031380
Project:	HPNS Parcel E; J310000400-016

QC BATCH REPORT

Batch ID: R190246	Instrument ID: BA	L2		Method	t SP						
DUP Sample ID: 21031380-02A DUP					Units: mg	/sample	Analysis	s Date: 3/31	/2021		
Client ID: 9894235-W	ISE01	Run ID:	BAL2_2	210331A		SeqNo: 242	7652	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	iculate	22.95	1.0	0		0 0		23.09	0.608	20	
The following sampl	les were analyzed in this	batch:		031380-02A		031380-04A		031380-06A 031380-12A			

Client: Work Order: Project:	Gilbane Company 21031380 HPNS Parcel E; J310	000400-01	.6						QC I	BATC	H REI	PORT
Batch ID: R190248	Instrument ID: BA	L2		Method	: PM10							
DUP	Sample ID: 21031380-1	1A DUP				U	nits: mg/ s	sample	Analysis	Date: 3/31	/2021	
Client ID: Q0424240	D-MSE02	Run ID:	BAL2_2	10331B		Sec	No: 2427	7735	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		18.84	1.0	0		0	0		18.73	0.586	20	
The following samp	bles were analyzed in this	batch:		031380-01A 031380-07A			380-03A 380-09A		031380-05A 031380-11A			

Batch ID: 73549 Instrument ID: ICP1 Method: E12

MBLK	K Sample ID: MBLK-73549-73549						ample	Analy	sis Date: 3/3	1/2021 05:	18 PM
Client ID:		Run ID	ICP1_2	10331B		SeqNo: 2428	3605	Prep Date: 3/	31/2021	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-73549-7	73549					Units: µg/s	ample	Analy	sis Date: 3/3	1/2021 05:	22 PM
Client ID:		Run ID	: ICP1_21	10331B		S	eqNo: 2428	606	Prep Date: 3	/31/2021	DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper		390	100	450		0	86.7	75-125		0		
Lead		391.9	25	450		0	87.1	75-125		0		
Manganese		365	100	450		0	81.1	75-125		0		

LCSD	Sample ID: LCSD-7354	9-73549				ι	Jnits: µg/s	ample	Analysis	Date: 3/31	/2021 05:2	26 PM
Client ID:		Run ID	: ICP1_21	0331B		Se	eqNo: 2428	8607	Prep Date: 3/31	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		400.9	100	450		0	89.1	75-125	390	2.77	20	
Lead		397.5	25	450		0	88.3	75-125	391.9	1.43	20	
Manganese		379.4	100	450		0	84.3	75-125	365	3.88	20	

MS	Sample ID: 21031380-0	Units: µg/s	sample	Analysi	s Date: 3/3	1/2021 05:4	19 PM				
Client ID:	9894237-MSE01	Run ID	: ICP1_2	10331B		SeqNo: 242	8611	Prep Date: 3/3	1/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		463.5	100	450	73.3	85 86.7	75-125	0	1		
Lead		402.6	25	450		0 89.5	75-125	0			
Manganes	se	379.1	100	450	24.4	7 78.8	75-125	0			

MSD	Sample ID: 21031380-06	6A MSD				Units	: µg/s	sample	Analy	ysis D	Date: 3/31	/2021 05:	53 PM
Client ID: 989423	7-MSE01	Run ID	ICP1_2	210331B		SeqNo	: 242	8612	Prep Date: 3	3/31/2	2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value		%RPD	RPD Limit	Qual
Copper		465.3	100	450	73.	35 8	37.1	75-125	463	3.5	0.388	20	
Lead		405	25	450		0	90	75-125	402	2.6	0.613	20	
Manganese		375.2	100	450	24.	47 7	77.9	75-125	379	9.1	1.04	20	
The following san	nples were analyzed in this k	patch:		21031380-02A 21031380-08A		031380 031380	-		031380-06A 031380-12A		_		

Client: Project: WorkOrder:	Gilbane Company HPNS Parcel E; J310000400-016 21031380	QUALIFIERS, 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	
0	Sample amount is > 4 times amount spiked	
Р	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	
μg/sample	2 USURPHUN	

mg/sample

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK		Date/Time F	Received:	24-Mar-21	10:30	
Work Order: <u>21031380</u>		Received by	r:	<u>RDN</u>		
Checklist completed by: Stephanie H arrington	25-Mar-21 Date	Reviewed by:	R ob Niema	an	26	5-Mar-21 Date
Matrices: Carrier name: <u>FedEx</u>					I	
Shipping container/cooler in good condition?	Yes 🖌	No 🗌	Not Preser	nt 🗌		
Custody seals intact on shipping container/cooler?	Yes 🔽	No 🗌	Not Preser	nt 🗌		
Custody seals intact on sample bottles?	Yes	No 🗌	Not Preser	nt 🗹		
Chain of custody present?	Yes 🔽	No 🗌				
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌				
Chain of custody agrees with sample labels?	Yes 🖌	No 🗌				
Samples in proper container/bottle?	Yes 🗹	No 🗌				
Sample containers intact?	Yes 🗹	No 🗌				
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌				
All samples received within holding time?	Yes 🖌	No 🗌				
Container/Temp Blank temperature in compliance?	Yes 🖌	No 🗌				
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes	No 🗹				
Cooler(s)/Kit(s):						
Date/Time sample(s) sent to storage:						
Water - VOA vials have zero headspace?	Yes	No	No VOA vials s	submitted	\checkmark	
Water - pH acceptable 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:		
Comments:			
CorrectiveAction:			
			SF
			0.

03138	1
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COC # KT-032321



CHAIN-OF-CUST	ODY
RECORD	

Gilbane Federal

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2							Laboratory: ALS Laboratory Group, Cincinnati, OH													Event: Parcel E Phase 2 Air				
	ect Number: J31000																					Monitoring		
WB	S Code: J310000400	-016					Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242																	
Comments:															A	Matrix Air	reservativ	<i>'θ</i>						
						ethod		-									(250-mL F (Envelope,		Degrees C					
Equ	lpment:					Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP															
	Event: Parcel E Phas	se 2 Air N	Ionitorin	g			1	1	1										1	11.				
	Sample ID		Matrix	Date	Time	Samp Init.										Lo	ocation II	D	Sample Type	Depth Top - I	(ft bgs) Bottom	Cooler	Comments	
1	Q0424237-MSE01	01	A	03/19/2021	0845	КТ	X									/	AMSE1		N1	0.00	0.00	1	VOLUME: 1638.66	
2	9894235-MSE01	02	A	03/19/2021	0845	KT		Х	X							1	AMSE1		N1	0.00	0.00	1	VOLUME: 1631.84	
3	Q0424236-MSE02	03	A	03/19/2021	0818	KT	X									1	AMSE2		N1	0.00	0.00	1	VOLUME: 1484.06	
4	9894236-MSE02	44	A	03/19/2021	0818	KT		X	X							1	AMSE2		N1	0.00	0.00	1	VOLUME: 1666.39	
5	Q0424238-MSE01	05	A	03/19/2021	1428	KT	X									J	AMSE1		N1	0.00	0.00	1	VOLUME: 382.89	
6	9894237-MSE01	16	A	03/19/2021	1428	КТ		X	X							i	AMSE1		N1	0.00	0.00	1	VOLUME: 383.77	
7	Q0424239-MSE02	FO	A	03/19/2021	1445	КТ	X									j	AMSE2		N1	0.00	0.00	1	VOLUME: 305.38	
8	9894238-MSE02	08	A	03/19/2021	1445	КТ		X	X								AMSE2		N1	0.00	0.00	1	VOLUME: 349.80	
9	Q0424241-MSE01	09	A	03/23/2021	0800	KT	X		\square	1						1	AMSE1		N1	0.00	0.00	1	VOLUME: 1630.52	
10	9894239-MSE01	10	A	03/23/2021	0800	KT		X	X	1						,	AMSE1		N1	0.00	0.00	1	VOLUME: 1596.06	
11	Q0424240-MSE02	11	A	03/23/2021	0730	KT	X										AMSE2		N1	0.00	0.00	1	VOLUME: 1562.37	
Del	Inquished by: (Signa	adressa)	-	Date	Time	Receive	el lass	× /Q	Lan	-	1			-r	-	Date	Тт	Ime	Shipping D	ate / Ca	erlor / A	Arbii Nu	Imber	
riei	Inquisited by: (Signa	iture)	-	1			/		gin	<i>atui</i> 6	/		_	-		197	_						3239479439	
Ë	V			3/23/21	(YW)	Fed	0	< <u> </u>	_	/	/	7	n	+		23/21		110						
						2	-1	1	/		_(\rightarrow	12	4121	10	130	Received t	y Labo	ratory:	(Signatur	re, Date, Time) & condition	
_	_									V	ast	45.	als									• mm ⁻		
										V	ast	45.	als										-,	

21031380

Gilbane Federal

COC # KT-032321/℃



CHAIN-OF-CUST	ODY
RECORD	

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2							orat	ory: /	ALS La	borato	ory Gro	up, Cin	cinnati, O	Н				Event: Parcel E Phase 2 Air Monitoring		
Pro	Ject Number: J310000400						POC: Stella Hanis 916-374-4414 Stella.Hanis@ALSGlobal.com											Monitoring		
WB	S Code: J310000400-016					Shi	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242													
Comments:						Π							Code	Matrix						
													A	Air						
													Code	Container/Preservati	Və					
													1	1x 250-mL Plastic, 4	Degrees C					
							1						1	1x Envelope, None						
					8															
					leth		G													
Equ	Ipment:				st N	MIC	An C	6												
					E E	- Air PM10	P N	Air TSP												
					Analytical Test Method	- F	Air Pb Mn													
					laly la	CAAIR	- L	N0500			1									
					2	-	E12		_	\vdash	_									
	Event: Parcel E Phase 2 Air I	Monitorin	g	_	-	1	1	1	_		-							<u>г г</u>		
					Samp										Sample		(ft bgs)			
	Sample ID	Matrix	Date	Time	Init.						_		<u> </u>	Location ID	Туре	Top - Bottom		Cooler	Comments	
12	9894240-MSE02	A	03/23/2021	0730	KT		Х	Х						AMSE2	N1	0.00	0.00	1	VOLUME: 1680.05	
13	the second se																			
14																_				
15						-	-	-												
16		1									-									
17		-							-	\square	-			4			-			
18		-			-	+			+		-						-		-A	
-	naround Time: 5 days					1							-					<u> </u>	P	

Relinguished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbili Number
AT .	3/23/21	1.400	Fed Ex	3 27 4	1400	Shipping Date: 3/23/2021/Fedex 773239479439
			12/1	3/24/21	10:30	Received by Laboratory: (Signature, Date, Time) & condition



02-Apr-2021

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

Re: HPNS Parcel E; J310000400-016

Work Order: 21031526

Dear Brett,

ALS Environmental received 8 samples on 26-Mar-2021 10:02 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,



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

Environmental 🐊

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Date: 02-Apr-21

Client:	Gilbane Company
Project:	HPNS Parcel E; J310000400-016
Work Order:	21031526

Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	Matrix	Tag Number	Collection Date	Date Received	Hold
21031526-01	Q0424242-MSE01	Air		3/24/2021 08:20	3/26/2021 10:02	
21031526-02	9894241-MSE01	Air		3/24/2021 08:20	3/26/2021 10:02	
21031526-03	Q0424243-MSE02	Air		3/24/2021 07:55	3/26/2021 10:02	
21031526-04	9894242-MSE02	Air		3/24/2021 07:55	3/26/2021 10:02	
21031526-05	Q0424244-MSE01	Air		3/25/2021 08:07	3/26/2021 10:02	
21031526-06	9894243-MSE01	Air		3/25/2021 08:07	3/26/2021 10:02	
21031526-07	Q0424245-MSE02	Air		3/25/2021 07:48	3/26/2021 10:02	
21031526-08	9894244-MSE02	Air		3/25/2021 07:48	3/26/2021 10:02	

Client:	Gilbane Company	
Project:	HPNS Parcel E; J310000400-016	Case Narrative
Work Order:	21031526	

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.

Gilbane Company

Client:

Project:	HPNS Parcel E; J31000	00400-016		Analytical R	esults
Lab ID:	21031526-01A		(Collection Date: 3/24/2021 8:2	0:00 AM
Client Sample ID	• Q0424242-MSE01			Matrix: AIR	
Analyses					
PM : PM10 40CFF	R 50 APPDIX J		Method: PM10	Air Volume (L): 1658890	Analyst: SRL
Date Analyzed: 4/2	2/2021	, .	Reporting Limit		
Particulate as PM	10	mg/sample	mg/sample	mg/m3 0.017	
Farticulate as Fivi	10	20	1.0	0.017	
Lab ID:	21031526-02A		(Collection Date: 3/24/2021 8:2	0:00 AM
Client Sample ID	• 9894241-MSE01			Matrix: AIR	
Analyses					
TSP 40 CFR 50 A	PPDX B		Method: TSP	Air Volume (L): 1651770	Analyst: SRL
Date Analyzed: 4/2	2/2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended		47	1.0	0.028	
_	METHOD 12 MOD.		Method: E12	Air Volume (L): 1651770	Analyst: AZ
Date Analyzed: 4/2	2/2021 15:11	u <i>n la</i> ammila	Reporting Limit		
Connor		µg/sample	μg/sample	mg/m3	
Copper Lead		390 ND	25 25	0.00023 <0.000015	
Manganese		34	25	0.000021	
Lab ID:	21031526-03A		(Collection Date: 3/24/2021 7:5	5:00 AM
Client Sample ID	• Q0424243-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFF	R 50 APPDIX J		Method: PM10	Air Volume (L): 1669170	Analyst: SRL
Date Analyzed: 4/2	2/2021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
	10	10	1.0	0.0060	

Work Order: 21031526

Gilbane Company

HPNS Parcel E; J310000400-016

Client:

Project:

		Collection Date: 3/24/2021 7:5	5:00 AM
2		Matrix: AIR	
	Method: TSP	Air Volume (L): 1706990	Analyst: SRL
	Reporting Limit		
mg/sample	mg/sample	mg/m3	
13	1.0	0.0078	
	Method: E12	Air Volume (L): 1706990	Analyst: AZ
	Reporting Limit		
µg/sample	µg/sample	mg/m3	
47	25	0.000028	
ND	25	<0.000015	
ND	25	<0.000015	
	13 μg/sample 47 ND	Method: TSP Reporting Limit mg/sample 13 1.0 . Method: E12 Reporting Limit μg/sample 47 25 ND 25	Method: TSP Air Volume (L): 1706990 Reporting Limit mg/m3 13 1.0 0.0078 . Method: E12 Air Volume (L): 1706990 Reporting Limit mg/m3 13 1.0 0.0078 . Method: E12 Air Volume (L): 1706990 Reporting Limit μg/sample mg/m3 47 25 0.000028 ND 25 <0.000015

Lab ID:

21031526-05A Client Sample ID: Q0424244-MSE01 Collection Date: 3/25/2021 8:07:00 AM Matrix: AIR

Analyses

PM : PM10 40CFR \$	50 APPDIX J		Method: PM10	Air Volume (L): 1595640	Analyst: SRL				
Date Analyzed: 4/2/2	021		Reporting Limit						
		mg/sample	mg/sample	mg/m3					
Particulate as PM10		33	1.0	1.0 0.021					
Lab ID:	21031526-06A		(Collection Date: 3/25/2021 8:0	7:00 AM				
Client Sample ID:	9894243-MSE01			Matrix: AIR					
Analyses									

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1612730	Analyst: SRL
Date Analyzed: 4/2/2021		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): 1612730	Analyst: AZ
Date Analyzed: 4/2/2021 15:27		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	220	25	0.00014	
Lead	ND	25	<0.000016	
Manganese	ND	25	<0.000016	

Date: 02-Apr-21

Work Order: 21031526

Client:	Gilbane Company	Work Order: 21031526
Project:	HPNS Parcel E; J310000400-016	
		Analytical Results

Lab ID:	21031526-07A		C	Collection Date: 3/25/2021 7:4	8:00 AM
Client Sample ID:	Q0424245-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFR \$	50 APPDIX J		Method: PM10	Air Volume (L): 1647080	Analyst: SRL
Date Analyzed: 4/2/2	021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10		22	1.0	0.014	
Lab ID:	21031526-08A		C	Collection Date: 3/25/2021 7:4	8:00 AM
Client Sample ID:	9894244-MSE02			Matrix: AIR	
Analyses					
TSP 40 CFR 50 AP	PDX B		Method: TSP	Air Volume (L): 1695120	Analyst: SRL
Date Analyzed: 4/2/2	021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	27	1.0	0.016	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1695120	Analyst: AZ
	021 15:39		Reporting Limit		
Date Analyzed: 4/2/2			µg/sample	mg/m3	
Date Analyzed: 4/2/2		µg/sample	µg/sample		
Date Analyzed: 4/2/2		µg/sample 61	25	0.000036	
-			10 1	•	

Date: 02-Apr-21

Client:	Gilbane Company
Work Order:	21031526
Project:	HPNS Parcel E; J310000400-016

QC BATCH REPORT

Batch ID: R190354	Instrument II	D: BAL2		Method	t: TSP								
DUP	Sample ID: 21031	526-02A dup				ι	Jnits: mg/	sample	Ana	alysis	Date: 4/2/	2021	
Client ID: 9894241-N	SE01	Run ID	BAL2_2	210402A		Se	qNo: 242	9907	Prep Date:			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Re Value		%RPD	RPD Limit	Qua
Total suspended parti	culate	48.71	1.0	0		0	0		4	6.86	3.87	20	
The following sampl	es were analyzed i	n this batch:		1031526-02A 1031526-08A		1031	526-04A	21	031526-06A	١			

Client: Work Order: Project:	Gilbane Company 21031526 HPNS Parcel E; J310	000400-03	16						QCI	BATC	H REI	PORT
Batch ID: R190356	Instrument ID: BA	L2		Method	d: PM10							
DUP	Sample ID: 21031526-0	7A DUP				ι	Jnits: mg/ s	sample	Analysis	B Date: 4/2/	2021	
Client ID: Q042424	5-MSE02	Run ID:	BAL2_2	210402B		Se	qNo: 2429	9915	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		23.27	1.0	0		0	0		22.36	3.99	20	
The following samp	bles were analyzed in this	batch:		031526-01A 031526-07A		1031	526-03A	21	031526-05A			

Batch ID: 73608 Instrument ID: ICP1 Method: E12

MBLK	Sample ID: MBLK-73608-73608							Analysis Date: 4/2/2021 02:59			9 PM
Client ID:			SeqNo: 2430	0617	Prep Date:	4/2/2021	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-73608-7	Sample ID: LCS-73608-73608							Ana	Analysis Date: 4/2/2021 03:03 PM		
Client ID:		Run ID: ICP1_210402A					SeqNo: 2430618 Pro			4/2/2021	DF: 1	
					SPK Ref			Control	RPD Re	f	RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper		367.2	100	450		0	81.6	75-125		0		
Lead		381.9	25	450		0	84.9	75-125		0		
Manganese		360.5	100	450		0	80.1	75-125		0		

LCSD	Sample ID: LCSD-73608	Units: µg/sample			Analysis Date: 4/2/2021 03:07 Pl			PM				
Client ID:		Run ID: ICP1_210402A					eqNo: 2430	619	Prep Date: 4/2/	2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		379.8	100	450		0	84.4	75-125	367.2	3.39	20	
Lead		390.3	25	450		0	86.7	75-125	381.9	2.17	20	
Manganese		378.6	100	450		0	84.1	75-125	360.5	4.88	20	

MS 5	S Sample ID: 21031526-04A MS						ample	Analy	Analysis Date: 4/2/2021 03:19 PM			
Client ID: 9894242-MSI	E02	Run ID: 🛛	CP1_21	0402A		SeqNo: 243	0622	Prep Date: 4	/2/2021	DF: 1		
Analyte	R	esult	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	4	29.3	100	450	47.1	2 84.9	75-125		0			
Lead		400	25	450	2.35	67 88.4	75-125		0			
Manganese	3	90.2	100	450	12.4	6 83.9	75-125		0			

MSD	MSD Sample ID: 21031526-04A MSD							Units: µg/sample Analysis Date: 4/2/2			2021 03:23	3 PM
Client ID: 989424	42-MSE02	Run ID	Run ID: ICP1_210402A			Sec	qNo: 2430	0623	Prep Date: 4/2/2	2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		422.6	100	450	47.	12	83.4	75-125	429.3	1.58	20	
Lead		400.5	25	450	2.3	57	88.5	75-125	400	0.135	20	
Manganese		388.5	100	450	12.	46	83.6	75-125	390.2	0.428	20	
The following sa	mples were analyzed in this	batch:		1031526-02A 1031526-08A		1031	526-04A	21	031526-06A			

Qualifier Description * Value exceeds Regulatory Limit a Not accredited B Analyte detected in the associated Method Blank above the Reporting Limit E Value above quantitation range H Analyte detected below quantitation limit a Not offered for accreditation ND Not offered for accreditation ND Not offered for accreditation A 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 Accronvm Description DUP Method Duplicate E EPA Method LCS Laboratory Control Sample LCS Laboratory Control Sample Duplicate MBLK Method Duplicate MS Matrix Spike MSD Matrix Spike Duplicate PDS Post Digestion Spike PDS Sor Digestion Spike	Client: Project: WorkOrder:	Gilbane Company HPNS Parcel E; J310000400-016 21031526	QUALIFIERS, ACRONYMS, UNITS
a Not accredited B Analyte detected in the associated Method Blank above the Reporting Limit E Value above quantitation range H Analyte detected of Holding Time J Analyte detected below quantitation limit n Not offeed 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 limits S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL Accronym Description DUP Method Duplicate E EPA Method LCSD Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MBLK Method Duplicate MBLK Method Quanitation Limit MQL Method Quanitation Limit MSD Matrix Spike MSD Matrix Spike PDS Post Digestion Spike PQL Particia Quanitation L	Qualifier	Description	
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PDS Post Digestion Spike PQL Practical Quantitaion Limit SDL Sample Detection Limit SW SW-846 Method	MS	Matrix Spike	
PQLPractical Quantitaion LimitSDLSample Detection LimitSWSW-846 Method	MSD	Matrix Spike Duplicate	
SDLSample Detection LimitSWSW-846 Method	PDS	Post Digestion Spike	
SW SW-846 Method	PQL	Practical Quantitaion Limit	
	SDL	Sample Detection Limit	
Units Reported Description	SW	SW-846 Method	
	Units Reported	Description	

mg/sample

Sample Receipt Checklist

	Date/Time F	Received:	<u>26-Mar-21</u>	<u>10:02</u>
	Received by	/:	<u>SNH</u>	
26-Mar-21 Date	Reviewed by:	R ob Niem	nan	30-Mar-21 Date
		-		I
Yes 🔽	No 🗌	Not Prese	ent	
Yes 🗹	No 🗌	Not Prese	ent 🗌	
Yes	No 🗌	Not Prese	ent 🗹	
Yes 🗸	No 🗌			
Yes 🗸	No 🗌			
Yes 🗸	No 🗌			
Yes 🗹	No 🗌			
Yes 🗹	No 🗌			
Yes 🗸	No 🗌			
Yes 🗸	No 🗌			
Yes 🗸	No 🗌			
Yes 🗌	No 🗸			
		,		
Vac	No		ou braitte d	
res 🛄			submitted	_
Yes	No	N/A 🖌		
Yes	No 🗌	N/A 🗹		
	Date Yes Yes	26-Mar-21 Reviewed by: Date No Yes No	Date eSignature Yes No Not Prese Yes No Yes Yes No No Yes No No Yes No No VOA vials Yes No N/A	Received by: SNH 26-Mar-21 Reviewed by: R db N ieman Date eSignature Yes No No Not Present Yes No Yes No

Login Notes:

Client Contacted:	Date Contacted:	Person Contacted:	
Contacted By:	Regarding:		
Comments:			
CorrectiveAction:			
			SR
			•

	AIN-OF-CUSTODY	7	Gilba	ne Federal		$\int 0352(0)$										Gilbane				
Pro	ect Name: Hunters Point Sh	lipyard, F	Parcel E RA Pl	nase 2		Lab	orat	lory:	ALS L	.abora	atory 6	iroup,	Cinc	innati, (OH		······			Parcel E Phase 2 Air
Pro	ect Number: J310000400																		Monitori	ing
WB	S Code: J310000400-016					Shi	p to:	: 438	8 Gler	ndale	Milfor	d Rd.,	Blue	Ash, C	H 45242					
	iments:				Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP						Code 1						
	Event: Parcel E Phase 2 Air	Monitorin	g			1	1	1												· · ·
					Samp											Sample	<u> </u>			
	Sample ID	Matrix	Date	Time	Init.	ļ									Location ID	Туре		Bottom	Cooler	Comments
1	Q0424242-MSE01	A	03/24/2021	0820	KT	X	ļ								AMSE1	N1	0.00	0.00	1	VOLUME: 1658.89
2	9894241-MSE01	A	03/24/2021	0820	КТ		X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1651.77
3	Q0424243-MSE02	A	03/24/2021	0755	КТ	X									AMSE2	N1	0.00	0.00	1	VOLUME: 1669.17
4	9894242-MSE02	A	03/24/2021	0755	KT		Х	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1706.99
5	Q0424244-MSE01	A	03/25/2021	0807	кт	X									AMSE1	N1	0.00	0.00	1	VOLUME: 1595.64
6	9894243-MSE01	A	03/25/2021	0807	кт		Х	X			T				AMSE1	N1	0.00	0.00	1	VOLUME: 1612.73
7	Q0424245-MSE02	A	03/25/2021	0748	KT	X									AMSE2	N1	0.00	0.00	1	VOLUME: 1647.08
8	9894244-MSE02	A	03/25/2021	0748	KT		X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1695.12
Tur	naround Time: 5 days		L								<u> </u>	*					-			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
Sintral >	3/25/4	1400	July Cally	32521	1400	Shipping Date: 3/25/2021 / FedEx 7732 6492 5878
				2/10/21	101	0
		<u> </u>		CY LEIL!		Received by Laboratory: (Signature, Date, Time) & condition
		-	0	No.		Mistaely sear
					1	



08-Apr-2021

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

Re: HPNS Parcel E; J310000400-016

Work Order: 21031834

Dear Brett,

ALS Environmental received 12 samples on 31-Mar-2021 04:00 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 13.

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

Sincerely,

'Nieman

Electronically approved by: Danielle Strasinger

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:	21031834

Date: 08-Apr-21

Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received	Hold
21031834-01	Q0424246-MSE01	Air		3/26/2021 08:00	3/31/2021 16:00	
21031834-02	9894245-MSE01	Air		3/26/2021 08:00	3/31/2021 16:00	
21031834-03	Q0424247-MSE02	Air		3/26/2021 07:32	3/31/2021 16:00	
21031834-04	9894246-MSE02	Air		3/26/2021 07:32	3/31/2021 16:00	
21031834-05	Q0424248-MSE01	Air		3/26/2021 13:10	3/31/2021 16:00	
21031834-06	9894248-MSE01	Air		3/26/2021 13:10	3/31/2021 16:00	
21031834-07	Q0424249-MSE02	Air		3/26/2021 13:25	3/31/2021 16:00	
21031834-08	9894247-MSE02	Air		3/26/2021 13:25	3/31/2021 16:00	
21031834-09	Q0424250-MSE01	Air		3/30/2021 07:36	3/31/2021 16:00	
21031834-10	9894249-MSE01	Air		3/30/2021 07:36	3/31/2021 16:00	
21031834-11	Q0424251-MSE02	Air		3/30/2021 07:20	3/31/2021 16:00	
21031834-12	9894250-MSE02	Air		3/30/2021 07:20	3/31/2021 16:00	

Client:Gilbane CompanyProject:HPNS Parcel E; J310000400-016Work Order:21031834

Date: 08-Apr-21

Case Narrative

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.

Gilbane Company

HPNS Parcel E; J310000400-016

Client:

Project:

Work Order:	21031834
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Lab ID:	21031834-01A		(Collection Date: 3/26/2021 8:0	0:00 AM
Client Sample ID:	Q0424246-MSE01			Matrix: AIR	
Analyses					
PM : PM10 40CFR {	50 APPDIX J		Method: PM10	Air Volume (L): 1605860	Analyst: SRL
Date Analyzed: 4/7/2021			Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10)	46	1.0	0.029	
Lab ID:	21031834-02A		(Collection Date: 3/26/2021 8:0	0:00 AM
Client Sample ID:	9894245-MSE01			Matrix: AIR	
Analyses					
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1602990	Analyst: SRL
Date Analyzed: 4/7/2	021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	articulate	60	1.0	0.038	
METALS BY EPA N	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1602990	Analyst: AZ
Date Analyzed: 4/7/2	021 17:14		Reporting Limit		
		µg/sample	µg/sample	mg/m3	
Copper		420	25	0.00026	
Lead		ND	25	<0.000016	
Manganese		ND	25	<0.000016	
Lab ID:	21031834-03A		(Collection Date: 3/26/2021 7:3	2:00 AM
Client Sample ID:	Q0424247-MSE02			Matrix: AIR	
Analyses					
PM : PM10 40CFR {	50 APPDIX J		Method: PM10	Air Volume (L): 1619900	Analyst: SRL
Date Analyzed: 4/7/2	021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Particulate as PM10)	36	1.0	0.022	

Date:	08-Apr-21
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Client:	Gilbane Company
Project:	HPNS Parcel E; J310000400-016

Work Order: 21031834

Lab ID: 21031834-04A		Collection Date: 3/26/2021 7:32:00 AM							
Client Sample ID: 9894246-MSE02			Matrix: AIR						
Analyses									
TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1663460	Analyst: SRL					
Date Analyzed: 4/7/2021		Reporting Limit		, –					
	mg/sample	mg/sample	mg/m3						
Total suspended particulate	46	1.0 0.028							
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1663460	Analyst: AZ					
Date Analyzed: 4/7/2021 17:18		Reporting Limit	(),	2					
	µg/sample	µg/sample	mg/m3						
Copper	140	25	0.000084						
Lead	ND	25	<0.000015						
Manganese	ND	25	<0.000015						
Lab ID: 21031834-05A			Collection Date: 3/26/2021 1:1	0:00 PM					
Client Sample ID: Q0424248-MSE01			Matrix: AIR						
Analyses									
PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 351990	Analyst: SRL					
Date Analyzed: 4/7/2021		Reporting Limit							
	mg/sample	mg/sample	mg/sample mg/m3						
Particulate as PM10	4.8	1.0	0.014						
Lab ID: 21031834-06A		(Collection Date: 3/26/2021 1:1	0:00 PM					
Client Sample ID: 9894248-MSE01			Matrix: AIR						
Analyses									
TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 356260	Analyst: SRL					
Date Analyzed: 4/7/2021		Reporting Limit							
	mg/sample	mg/sample	mg/m3						
Total suspended particulate	12	1.0	0.035						
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 356260	Analyst: AZ					
Date Analyzed: 4/7/2021 17:30		Reporting Limit							
	µg/sample	µg/sample	mg/m3						
Copper	130	25	0.00036						
Lead	ND	25	<0.000070						
	ND	25	<0.000070						

Gilbane Company

HPNS Parcel E; J310000400-016

Client:

Project:

Work Order:	21031834
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Lab ID:	21031834-07A	Collection Date: 3/26/2021 1:25:00 PM								
Client Sample ID:	Q0424249-MSE02			Matrix: AIR						
Analyses										
PM : PM10 40CFR {	50 APPDIX J		Method: PM10	Air Volume (L): 395590	Analyst: SRL					
Date Analyzed: 4/7/2	021		Reporting Limit							
		mg/sample	mg/sample	mg/m3						
Particulate as PM10)	3.8	1.0	0.0096						
Lab ID:	21031834-08A			Collection Date: 3/26/2021 1:2	25:00 PM					
Client Sample ID:	9894247-MSE02			Matrix: AIR						
Analyses										
TSP 40 CFR 50 APPDX B			Method: TSP	Air Volume (L): 410870	Analyst: SRL					
Date Analyzed: 4/7/2021			Reporting Limit							
		mg/sample	mg/sample	mg/m3						
Total suspended pa	articulate	13	1.0	0.032						
METALS BY EPA METHOD 12 MOD. Date Analyzed: 4/7/2021 17:34			Method: E12	Air Volume (L): 410870	Analyst: AZ					
			Reporting Limit							
		µg/sample	µg/sample	mg/m3						
Copper		62	25	0.00015						
Lead		ND	25	<0.000061						
Manganese		ND	25	<0.000061						
Lab ID:	21031834-09A			Collection Date: 3/30/2021 7::	36:00 AM					
Client Sample ID:	Q0424250-MSE01			Matrix: AIR						
Analyses										
PM : PM10 40CFR {	50 APPDIX J		Method: PM10	Air Volume (L): 450550	Analyst: SRL					
Date Analyzed: 4/7/2	021		Reporting Limit							
		mg/sample	mg/sample	mg/m3						
Particulate as PM10)	9.4	1.0	0.021						

Date:	08-Apr-21
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Client:	Gilbane Company
Project:	HPNS Parcel E; J310000400-016

Work Order: 21031834

Lab ID: 21031834-10A		Collection Date: 3/30/2021 7:36:00 AM							
Client Sample ID: 9894249-MSE01			Matrix: AIR						
Analyses									
TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 571130	Analyst: SRL					
Date Analyzed: 4/7/2021		Reporting Limit	()						
	mg/sample	mg/sample	mg/m3						
Total suspended particulate	18	1.0	0.031						
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 571130	Analyst: AZ					
Date Analyzed: 4/7/2021 17:47		Reporting Limit	()						
	µg/sample	µg/sample	mg/m3						
Copper	65	25	0.00011						
Lead	ND	25	<0.000044						
Manganese	ND	25	<0.000044						
Lab ID: 21031834-11A		(Collection Date: 3/30/2021 7:2	0:00 AM					
Client Sample ID: Q0424251-MSE02			Matrix: AIR						
Analyses									
PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 572410	Analyst: SRL					
Date Analyzed: 4/7/2021		Reporting Limit							
	mg/sample	mg/sample	mg/m3						
Particulate as PM10	14	1.0	0.025						
Lab ID: 21031834-12A		(Collection Date: 3/30/2021 7:2	0:00 AM					
Client Sample ID: 9894250-MSE02			Matrix: AIR						
Analyses									
TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 583390	Analyst: SRL					
Date Analyzed: 4/7/2021		Reporting Limit							
	mg/sample	mg/sample	mg/m3						
Total suspended particulate	19	1.0	0.032						
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 583390	Analyst: AZ					
Date Analyzed: 4/7/2021 17:51		Reporting Limit							
	µg/sample	µg/sample	mg/m3						
Copper	42	25	0.000072						
Lead	ND	25	<0.000043						

ALS Environmental **Client:** Gilbane Company **QC BATCH REPORT** Work Order: 21031834 **Project:** HPNS Parcel E; J310000400-016 Batch ID: R190501 Instrument ID BAL2 Method: TSP DUP Sample ID: 21031834-02A DUP Units: mg/sample Analysis Date: 4/7/2021 Client ID: 9894245-MSE01 Run ID: BAL2_210407A SeqNo: 2433792 Prep Date: DF: 1 RPD SPK Ref Control RPD Ref Limit Value Limit Value %REC %RPD Qual Analyte Result PQL SPK Val 60.35 Total suspended particulate 1.0 0 0 0 60.2 0.249 20

21031834-04A

21031834-10A

21031834-02A

21031834-08A

The following samples were analyzed in this batch:

21031834-06A

21031834-12A

Client:	Gilbane Company							OC I	BATC	H REJ	PORT
Work Order:	21031834							X			
Project:	HPNS Parcel E; J310	0000400-0	16								
Batch ID: R190502	Instrument ID BA	L2		Method	: PM10						
DUP	Sample ID: 21031834-0	D1A DUP				Units: m	g/sample	Analysis	Date: 4/7/	2021	
Client ID: Q0424240	6-MSE01	Run ID:	BAL2_2	210407B		SeqNo: 24	33799	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)	45.77	1.0	0		0 0		45.8	0.0655	20	
The following sam	ples were analyzed in th	is batch:		031834-01A 031834-07A		1031834-03/ 1031834-09/		1031834-05A 1031834-11A			

Gilbane Company **Client:**

Work Order: 21031834

Manganese

QC BATCH REPORT

Work Ordere	21051051											
Project:	HPNS Parcel E; J3100	000400-0	016									
Batch ID: 73710	Instrument ID ICP	3		Metho	d: E12							
MBLK	Sample ID: MBLK-7371			Units: µg/s	ample	Analysis	s Date: 4/7/	2021 05:0	2 PM			
Client ID:		Run II	D: ICP3_2	10407B		S	eqNo: 2434	4626	Prep Date: 4/7	/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-73710-	73710					Units: µg/s	ample	Analysis	s Date: 4/7/	2021 05:0	6 PM
Client ID:		Run II	D: ICP3_2	10407B		S	eqNo: 2434	4627	Prep Date: 4/7/	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		359.3	100	450		0	79.8	75-125	0			
Lead		373.6	25	450		0	83	75-125	0			
Manganese		352.4	100	450		0	78.3	75-125	0			
LCSD	Sample ID: LCSD-7371	0-73710					Units: µg/s	ample	Analysis	a Date: 4/7/	2021 05:1	0 PM
Client ID:		Run II	D: ICP3_2	10407B		SeqNo: 2434628 Prep Da		Prep Date: 4/7/	/2021	DF: 1		
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper		342.3	100	450		0	76.1	75-125	359.3	4.85	20	
Lead		363.5	25	450		0	80.8	75-125	373.6	2.76	20	
LCSD	Sample ID: LCSD-7371	0-73710				Units: µg/sample		Analysis Date: 4/8/		2021 02:5	53 PM	
Client ID:		Run II	D: ICP1_2	10408A		S	eqNo: 243	5111	Prep Date: 4/7/	/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese		460.4	100	450		0	102	75-125	352.4	26.6	20	R
MS	Sample ID: 21031834-04	4A MS					Units: µg/s	ample	Analysis	s Date: 4/7/	2021 05:2	2 PM
Client ID: 9894246	·		D: ICP3_2	10407B			eqNo: 243	•	Prep Date: 4/7/		DF: 1	
					SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Copper		500	100	450	140).4	79.9	75-125	0			
Lead		376.2	25	450	3.9	99	82.7	75-125	0			

352

100

450

6.008

75-125

76.9

0

Client: Gilbane Company

Work Order: 21031834

Project: HPNS Parcel E; J310000400-016

Batch ID: 73710 Instrument ID ICP3 Method: E12

MSD	Sample ID: 21031834-	04A MSD				Units: µg/s	ample	Analysis	Analysis Date: 4/8/2021 02:56 PM			
Client ID: 9894246	-MSE02	Run ID	ICP1_2	10408A	:	SeqNo: 243	5112	Prep Date: 4/7	/2021	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper		621	100	450	140.4	107	75-125	500	21.6	20	R	
Lead		454.5	25	450	3.99	9 100	75-125	376.2	2 18.9	20		
Manganese		495.4	100	450	6.008	3 109	75-125	352	33.9	20	R	
The following sam	ples were analyzed in th	nis batch:		031834-02A 031834-08A	-	31834-04A 31834-10A		031834-06A 031834-12A				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Gilbane Company

21031834

HPNS Parcel E; J310000400-016

Client:

Project:

WorkOrder:

Date:	08-Apr-21
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QUALIFIERS,	
ACRONYMS,	UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
а	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
Е	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
0	Sample amount is > 4 times amount spiked
Р	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

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK		Date/Time I	Received: <u>31-Ma</u>	r-21 16:00
Work Order: <u>21031834</u>		Received by	/: <u>RDN</u>	
Checklist completed by Stephanie Harrington eSignature	01-Apr-21 Date	Reviewed by:	Rob Nieman eSignature	02-Apr-21 Date
Matrices: Carrier name: <u>FedEx</u>				I I
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Present	
Chain of custody present?	Yes 🗹	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No		
Samples in proper container/bottle?	Yes 🗸	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌		
All samples received within holding time?	Yes 🗸	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌		
Sample(s) received on ice? Temperature(s)/Thermometer(s): Cooler(s)/Kit(s):	Yes	No 🗹		
Date/Time sample(s) sent to storage:				
Water - VOA vials have zero headspace?	Yes	No	No VOA vials submit	ted 🗸
Water - pH acceptable upon receipt?	Yes 🗌	No 🗌	N/A	
pH adjusted? pH adjusted by:	Yes 🗌	No 🗌	N/A	

Login Notes:

Client Contacted:	Date Contacte	ed: Perso	n Contacted:
Contacted By:	Regarding:		
Comments:			
CorrectiveAction:			

CHAIN-OF-CUSTODY RECORD

2	10	31	834	1
				/

Gilbane Federal

COC # KT-033021



Monito	pring
	or Comments
0 1	VOLUME: 1605.86
0 1	VOLUME: 1602.99
0 1	VOLUME: 1619.90
0 1	VOLUME: 1663.46
0 1	VOLUME: 351.99
0 1	VOLUME: 356.26
0 1	VOLUME: 395.59
0 1	VOLUME: 410.87
0 1	VOLUME: 450.55
0 1	VOLUME: 571.13
0 1	VOLUME: 572.41
/ Airbill N	lumber
	73296313564
y: (Signati	ture, Date, Time) & condition
	ang sa kanang kanang kanang sa
	00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1

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

CHAIN-OF-CUSTODY

21031834 Gilbane Federal Brett Womack

1655 Grant Street, Suite 1200, Concord, CA 94520 bwomack@gilbaneco.com

COC # KT-033021



Event: Parcel E Phase 2 Air

Project Number: J310000400	POC: Stella Hanis Stella.Hanis@ALSGlobal.com	Monitoring
WBS Code: J310000400-016		
Comments:	Code Matrix A Air Code Code I 1x 250-mL I 1x 250-mL I 1x Envelope, None	
Equipment:	CAAIR - Air PM1 E12 - Air TSP N0500 - Air TSP	
Event: Parcel E Phase 2 Air Monitoring		· · · · · · · · · · · · · · · · · · ·
Sample ID Matrix Date Time In	Location ID Type Top - Botto	
12 9894250-MSE02 12 A 03/30/2021 0720 K	X X AMSE2 N1 0.00 0.	00 1 VOLUME: 583.39
13		
14		
15		
16		
17		
18		

Laboratory: ALS Laboratory Group, Cincinnati, OH

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
B	3 30/2	1400	FedGe	3/30/21	1400	Shipping Date: 3/30/2021/FedEx 773296313564
			J'al	3131/21	16:00	Received by Laboratory: (Signature, Date, Time) & condition



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,



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

Environmental 💭

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Date: 12-Apr-21

Client:	Gilbane Company
Project:	HPNS Parcel E; J310000400-016
Work Order:	21040210

Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received	<u>Hold</u>
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.

Particulate as PM1	0	31	1.0	0.019		
		mg/sample	mg/sample	mg/m3		
PM : PM10 40CFR Date Analyzed: 4/9/			Method: PM10 Reporting Limit	Air Volume (L): 1675090	Analyst: SRL	
Analyses			Mothed		Analyst CC	
Client Sample ID:	Q0424253-MSE02			Matrix: AIR		
Lab ID: 21040210-03A				Collection Date: 3/31/2021 7:3	0:00 AM	
L-L ID.	21040210 024			C-ll-4 D-4- 0/01/0001 5 0	0.00.414	
Manganese		50	25	0.000031	_	
Lead		ND	25	<0.000015		
Copper		710	25	0.00044		
Date Analyzed: 4/12	2/2021 14:12	µg/sample	Reporting Limit µg/sample	mg/m3		
-	METHOD 12 MOD.		Method: E12	Air Volume (L): 1618470	Analyst: AZ	
Total suspended p		66	1.0	0.041		
		mg/sample	mg/sample	mg/m3		
Date Analyzed: 4/9/			Reporting Limit		, maryor. SKL	
Analyses			Method: TSP	Air Volume (L): 1618470	Analyst: SRL	
-	9894251-MSE01			Matrix: AIR		
Lab ID:	21040210-02A			Collection Date: 3/31/2021 7:5	8:00 AM	
	21040210 02 1				0.00.417	
Particulate as PM1	0	42	1.0	0.027		
Date Analyzed: 4/9/	2021	mg/sample	Reporting Limit mg/sample	mg/m3		
PM : PM10 40CFR			Method: PM10	Air Volume (L): 1569210	Analyst: SRL	
Analyses						
Client Sample ID:	Q0424252-MSE01			Matrix: AIR		
Lab ID:	21040210-01A			Collection Date: 3/31/2021 7:5	8:00 AM	
				Analytical R	esuits	
Project:	HPNS Parcel E; J31000	00400-016		A polytical D	oculte	
	Gilbane Company		Work Order: 21040210			

Analyst: SRL

ALS Environmental

Gilbane Company

HPNS Parcel E; J310000400-016

Client:

Project:

Lab ID:	21040210-04A			Collection Date: 3/31/2021 7:3	0:00 AM
Client Sample ID:	9894252-MSE02			Matrix: AIR	
Analyses					
TSP 40 CFR 50 API	PDX B		Method: TSP	Air Volume (L): 1710930	Analyst: SRL
Date Analyzed: 4/9/2	021		Reporting Limit		
		mg/sample	mg/sample	mg/m3	
Total suspended pa	rticulate	49	1.0	0.029	
METALS BY EPA N	IETHOD 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: 4/9/2	021		Reporting Limit		

mg/sample mg/m3 mg/sample Particulate as PM10 0.036 59 1.0 Lab ID: Collection Date: 4/1/2021 7:58:00 AM 21040210-06A Client Sample ID: 9894253-MSE01 Matrix: AIR Analyses TSP 40 CFR 50 APPDX B Method: TSP Air Volume (L): 1682280

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): 1682280	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	

Note:

Work Order: 21040210

Analytical Results

Date: 12-Apr-21

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 5	50 APPDIX J		Method: PM10	Air Volume (L): 1669640	Analyst: SRL	
Date Analyzed: 4/9/2021			Reporting Limit			
		mg/sample	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 APF	PDX B		Method: TSP	Air Volume (L): 1702160	Analyst: SRL	
Date Analyzed: 4/9/2021			Reporting Limit			
		mg/sample	mg/sample	mg/m3		
Total suspended par	rticulate	51	1.0	0.030		
METALS BY EPA M	IETHOD 12 MOD.		Method: E12	Air Volume (L): 1702160	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		

Date: *12-Apr-21*

ALS Environmental

Client:Gilbane CompanyWork Order:21040210Project:HPNS Parcel E; J310000400-016

QC BATCH REPORT

Project: HPNS Parcel E; J310000400-016

Batch ID: R190607	Instrument ID: BA	AL2		Method	: TSP							
DUP	Sample ID: 21040210-	02A DUP				U	Inits: mg/ s	sample	Analysis	B Date: 4/9/	2021	
Client ID: 9894251-W	ISE01	Run ID	BAL2_2	210409A		SeqNo: 2436628		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	65.27	1.0	0		0	0		65.85	0.885	20	
DUP	Sample ID: 21040375-	02A DUP				U	Inits: mg/ s	sample	Analysis	B Date: 4/9/	2021	
Client ID:		Run ID	BAL2_2	210409A		Sec	qNo: 2436	6633	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	71.55	1.0	0		0	0		71.52	0.0419	20	
The following sampl	es were analyzed in this	s batch:		040210-02A 040210-08A		1040	210-04A	21	040210-06A			

Client:Gilbane CompanyWork Order:21040210Project:HPNS Parcel E; J310000400-016

Batch ID: R190608 Instrument ID: BAL2 Method: PM10

DUP	Sample ID: 21040210-0	1A DUP				ι	Jnits: mg/	sample	Analysis	Date: 4/9/	2021	
Client ID: Q0424252	-MSE01	Run ID:	BAL2_2	210409B		SeqNo: 2436656			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		41.94	1.0	0		0	0		42.15	0.499	20	
DUP	Sample ID: 21040375-0	1A DUP				ι	Jnits: mg/ s	sample	Analysis	Date: 4/9/	2021	
Client ID:		Run ID:	BAL2_2	210409B		Se	qNo: 243	6661	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		57.28	1.0	0		0	0		56.58	1.23	20	
The following samp	les were analyzed in this	batch:		040210-01A 040210-07A		1040	210-03A	21	040210-05A			

Project: HPNS Parcel E; J310000400-016

Batch ID: 73772 Instrument ID: ICP3 Method: E12

MBLK	Sample ID: MBLK-73772-	73772				Units: µg/s	ample	Anal	ysis Date: 4/1	2/2021 02:	00 PM
Client ID:		Run ID	ICP3_2	10412A		SeqNo: 2438	3001	Prep Date:	1/12/2021	DF: 1	
Analyte	R	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-73772-	73772					Units: µg/s	ample	Ana	lysis Date: 4/1	2/2021 02	:04 PM
Client ID:		Run ID	ICP3_21	10412A		S	eqNo: 2438	8002	Prep Date:	4/12/2021	DF: 1	
					SPK Ref	ŧ		Control	RPD Re	f	RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
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-73772	2-73772					Units: µg/s	ample	Analysis Date: 4/12/2021 02:08 PM			
Client ID:		Run ID	: ICP3_21		SeqNo: 2438003			Prep Date: 4/12	/2021	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	f	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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: 21040375-10	AMS				Uni	its: µg/s a	ample	Analy	sis Date: 4/12	2/2021 03:0	2 PM
Client ID:		Run ID:	ICP3_21	0412A		SeqN	lo: 2438	013	Prep Date: 4	/12/2021	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	ç	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper		390.2	100	450	41.	.5	77.5	75-125		0		
Lead		440.2	25	450		0	97.8	75-125		0		
Manganese		346.1	100	450		0	76.9	75-125		0		

MSD	Sample ID: 21040375-10A	MSD				ι	Jnits: µg/s	ample	Analysis	/2021 03:0	06 PM	
Client ID:		Run ID: ICP3_210412A				Se	qNo: 2438	8014	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	Qual
Copper	3	373.3	100	450	4	1.5	73.7	75-125	390.2	4.43	20	S
Lead	2	142.1	25	450		0	98.2	75-125	440.2	0.428	20	
Manganese	3	334.7	100	450		0	74.4	75-125	346.1	3.34	20	S
The following sa	amples were analyzed in this ba	atch:		1040210-02A 1040210-08A	-	1040	210-04A	21	040210-06A			

ALS Environmental

Client: Project: WorkOrder:	Gilbane Company HPNS Parcel E; J310000400-016 21040210	QUALIFIERS, 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	
1	Analyte detected below quantitation limit	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference $> 40\%$	
R	RPD above laboratory control limit	
S U	Spike Recovery outside laboratory control limits 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 Diank	
MQL	Method Quantitation Limit	
MQL	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

	Date/Time R	eceived: 0	5-Apr-21 1	1:49
	Received by:	: <u>S</u>	<u>MS</u>	
06-Apr-21 Date	Reviewed by:	R ob Nieman eSignature	n	09-Apr-21 Date
				I
Yes 🔽	No 🗌	Not Present		
Yes 🗹	No 🗌	Not Present		
Yes 🗹	No 🗌	Not Present		
Yes 🗹	No 🗌			
Yes 🗹	No 🗌			
Yes 🗹	No 🗌			
Yes 🗹	No 🗌			
Yes 🗹	No 🗌			
Yes 🗹	No 🗌			
Yes 🔽	No 🗌			
Yes 🔽	No 🗌			
Yes	No 🗹			
Yes	No	No VOA vials su	bmitted	\checkmark
Yes	No 🗌 I	N/A		
Yes	No 🗌 🛛	N/A		
	Date Yes Yes	06-Apr-21 Reviewed by: Date No Yes No	Received by: R ob Nieman 06-Apr-21 Reviewed by: R ob Nieman Date No Not Present Yes No Image: Comparison of the set	Received by: SMS 06-Apr-21 Reviewed by: R db N idman Date Reviewed by: R db N idman Yes No Not Present

Login Notes:

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	
Comments:		
CorrectiveAction:		
		SF

SRC Page 1 of 1

	AIN-OF-CUSTODY CORD	(ne Federal Grant Street	, Suite 12	200, 0					210	COC # K	T-04012	1			G ilbane
Prol	ect Name: Hunters Point Si	hipyard, P	arcel E RA Ph	nase 2		Labo	orato	ry: A	LS La	boratory	Group, Ci	ncinnati, OH				Event: Pa Monitoring	rcel E Phase 2 Air
	ect Number: J310000400												_			MOLINOILI	8
	Code: J310000400-016					Ship	o to:	4388	Glend	ale Milfo	ord Rd., Bl	ue Ash, OH 45242					
	Ipment:				Analytical Test Method	Air PM10	Mn Cu	ISP				Code Matrix A Air Code Container/Preservat	Vē				
					Analytical 1		E12 - Air Pb Mn	N0500 - Air TSP									
	Event: Parcel E Phase 2 Air	Monitorin	9		Analytical 1	- CAAIR - Air	- E12 - Air Pb	- N0500 - Air									
	Event: Parcel E Phase 2 Air			Time	Analytical 1 Samb Init	CAAIR -	E12 -					Location ID	Sample Type	Depth (Top - E	Bottom	Cooler	Comments
1	Sample ID	Monitorin Matrix A	g Date 03/31/2021	Time 0758	Samp	CAAIR -	E12 -					Location ID AMSE1				Cooler 1	VOLUME: 1569.21
1	Sample ID Q0424252-MSE01	Matrix	Date		Samp Init.	- CAAIR -	E12 -						Туре	Top - E	0.00 0.00	1 1	VOLUME: 1569.21 VOLUME: 1618.47
1 2 3	Sample ID Q0424252-MSE01 9894251-MSE01	Matrix	Date 03/31/2021	0758	Samp Init. KT	- CAAIR -	L E12-	1				AMSE1	Type N1	Top - E 0.00	Bottom 0.00	1	VOLUME: 1569.21 VOLUME: 1618.47 VOLUME: 1675.09
3	Sample ID Q0424252-MSE01 9894251-MSE01 Q0424253-MSE02	Matrix A A	Date 03/31/2021 03/31/2021	0758 0758	Samp Init. KT KT	X L CAAIR-	L E12-	1				AMSE1 AMSE1	Type N1 N1	Top - E 0.00 0.00	0.00 0.00	1 1	VOLUME: 1569.21 VOLUME: 1618.47 VOLUME: 1675.09 VOLUME: 1710.93
3	Sample ID Q0424252-MSE01 9894251-MSE01 Q0424253-MSE02 9894252-MSE02	Matrix A A A A	Date 03/31/2021 03/31/2021 03/31/2021	0758 0758 0730	Samp Init. KT KT	X L CAAIR-	X E12-	1 X				AMSE1 AMSE1 AMSE2	Type N1 N1 N1	Top - E 0.00 0.00 0.00	Bottom 0.00 0.00 0.00 0.00 0.00	1 1 1	VOLUME: 1569.21 VOLUME: 1618.47 VOLUME: 1675.09 VOLUME: 1710.93 VOLUME: 1647.67
3 4 5	Sample ID Q0424252-MSE01 9894251-MSE01 Q0424253-MSE02 9894252-MSE02 Q0424254-MSE01	Matrix A A A A A	Date 03/31/2021 03/31/2021 03/31/2021 03/31/2021 04/01/2021	0758 0758 0730 0730	Samp Init. KT KT KT KT	X X L CAAIR-	X E12-	1 X				AMSE1 AMSE1 AMSE2 AMSE2	Type N1 N1 N1 N1 N1	Top - E 0.00 0.00 0.00 0.00	Bottom 0.00 0.00 0.00 0.00 0.00	1 1 1 1	VOLUME: 1569.21 VOLUME: 1618.47 VOLUME: 1675.09 VOLUME: 1710.93 VOLUME: 1647.67 VOLUME: 1682.28
3	Sample ID Q0424252-MSE01 9894251-MSE01 Q0424253-MSE02 9894252-MSE02	Matrix A A A A A A A	Date 03/31/2021 03/31/2021 03/31/2021 03/31/2021	0758 0758 0730 0730 0730	Samp Init. KT KT KT KT KT	X X L CAAIR-	X X E12-	1 X X				AMSE1 AMSE1 AMSE2 AMSE2 AMSE1	Type N1 N1 N1 N1 N1 N1	Top - E 0.00 0.00 0.00 0.00 0.00	Bottom 0.00 0.00 0.00 0.00 0.00	1 1 1 1 1	VOLUME: 1569.21 VOLUME: 1618.47 VOLUME: 1675.09 VOLUME: 1710.93 VOLUME: 1647.67

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date		Shipping Date / Carrier / Airbill Number
- PS	4/2/21	1000	RdGx	4/2/21	1000	Shipping Date: 4/1/2021 7733 2047 2174
	.,		Sham Spec	4/5/21	1149	Received by Laboratory: (Signature, Date, Time) & condition
				- 11 - 10 - 10 - 10 - 10 - 10 - 10 - 10		
					_	

Job ID: 21030289



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 Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	03/03/2021 13:30
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-022521	Sample Collection Date & Time 2/25/2021 11:40	Matrix Cassette	A&B Job Sample ID 21030289.01
MSE02-022521	2/25/2021 11:42	Cassette	21030289.02
MSE01-030121	3/1/2021 15:42	Cassette	21030289.03
MSE02-030121	3/1/2021 15:46	Cassette	21030289.04

5-0

Released By: Senthilkumar Sevukan

Vice President Operations

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.



Date 3/8/2021

Job ID : 21030289 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilban	Client: Gilbane Project: HPNS Parcel E Phase II J310000400 A											Attn: Br	ttn: 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	
21030289.01	MSE01-022521	02/25/2021	Area	2			290	580	100	8.5	10.828	0.007		03/08/21	Habedi	
21030289.02	MSE02-022521	02/25/2021	Area	2			279	558	100	9	11.465	0.008		03/08/21	Habedi	
21030289.03	MSE01-030121	03/01/2021	Area	2			462	924	100	10.0	12.739	0.005		03/08/21	Habedi	
21030289.04	MSE02-030121	03/01/2021	Area	2			442	884	100	10.5	13.376	0.006		03/08/21	Habedi	



A&B	JobID : 21030289	Date Receive	ed: 03,	/03/2021		Time F	Received :	1:30PM		
Clier	t Name : Gilbane					I				
Tem	perature : 18.3°C	Sample pH :	N/A							
Ther	mometer ID : 102002320	pH Paper ID	: N/A							
Pers	ervative :									
		Che	ck 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-o	f-custody.						х		
5.	C-O-C signed and dated.							х		
6.	Sample(s) received with signed	sample custody se	al.						Х	
7.	Sample containers arrived intact	. (If no comment).						х		
	Matrix Water Soil L	iquid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.	•									
8.	·									
8. 9.	: Sample(s) were received in appr	opriate container(s						□ X		
		opriate container(s								x
9.	: Sample(s) were received in appr	opriate container(
9. 10.	Sample(s) were received in appr Sample(s) were received with pr	opriate container(s						X		
9. 10. 11.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label	opriate container(s oper preservative ed. D's								
9. 10. 11. 12.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II	opriate container(s oper preservative ed. D's oottles found.	s).					x x x x		
9. 10. 11. 12. 13.	: D Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches b	opriate container(soper preservative ed. D's pottles found.	s).					X X X X X X		
9. 10. 11. 12. 13. 14.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches b Sample volume is sufficient for a	opriate container(soper preservative ed. D's pottles found.	s).					X X X X X X X		
9. 10. 11. 12. 13. 14. 15.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches b Sample volume is sufficient for a Samples were received within th	opriate container(soper preservative ed. D's pottles found.	s).					X X X X X X X		X
9. 10. 11. 12. 13. 14. 15. 16.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches b Sample volume is sufficient for a Samples were received within th VOA vials completely filled.	opriate container(soper preservative ed. D's pottles found. nalyses requested e hold time.	s).					X X X X X X X X		X
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	: D Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches b Sample volume is sufficient for a Samples were received within th VOA vials completely filled. Sample accepted. Has client been contacted about ments : Include actions taken to r	opriate container(soper preservative ed. D's bottles found. inalyses requested ie hold time.	s).					X X X X X X X X		x
9. 10. 11. 12. 13. 14. 15. 16. 17. 18	: D Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches b Sample volume is sufficient for a Samples were received within th VOA vials completely filled. Sample accepted. Has client been contacted about ments : Include actions taken to r	opriate container(soper preservative ed. D's bottles found. inalyses requested ie hold time.	s).					X X X X X X X X		x

JMontemayor / 03/03/2021 Event ID: Air Monitoring

COC# \$7030221ASD

Gilbane												Ch	ain	-Of	-Cust	tody	
Project Name and Number: Project Manager: Site Location: <u>Hunters Point</u>	HPNS Parcel 1 at, San Franciso			0		abora ddres	Hous	0 East F ston TX	B Labs wy Ste. 10 77029	-	Contact N Phone:	Va			Date:S/2 Page: <u>1</u>	/ਪ of _1_	
							A	nalysis:	1 1	1	-		1				
Sample ID MSEO1-022521 MSEO2-022521 MSEO1-030121	Date Salas Date	TIMe Time	Sample Depth (top)	Sample Depth (bottom)	- No. of Containers	Sample Matrix	Preserval None Container Filter								Special Inst	vate = ymin ructions/Com volume OA CVA - 03A - 03A	ments (Mn)
MSE02-030121 Sampled By: KMbh Signature:	3/1/21	1546	- 1	Samole	R.	y/Affilia	Jy -a	Fr.	Dat	te:	Time:	Courier/A	rbill No.: F	FedEX/ 7	D:2103	80289)& 70 Time:
Special Instructions: Send Results to:	~			tin	belij	To	/ Cuilk	che	3/2	þ.	1400	Fid Carli	ý J			3/2/4 3/3/21	14W 1330
Turnaround Time: Standard									14			16.0	~				

N.S

18.30 10200 2 520

Job ID: 21030517



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 Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	03/05/2021 13:00
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-030221	Sample Collection Date & Time 3/2/2021 15:21	Matrix Cassette	A&B Job Sample ID 21030517.01
MSE02-030221	3/2/2021 15:34	Cassette	21030517.02
MSE01-030321	3/3/2021 15:24	Cassette	21030517.03
MSE02-030321	3/3/2021 15:32	Cassette	21030517.04

3-0

Released By: Senthilkumar Sevukan

Vice President Operations

Title:

Analyst:

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Date 3/10/2021

Job ID: 21030517 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	ient: Gilbane Project: HPNS Parcel E Phase II J310000400 A											Attn: Bro	ttn: 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	
21030517.01	MSE01-030221	03/02/2021	Area	2			424	848	100	13	16.561	0.008		03/10/21	Habedi	
21030517.02	MSE02-030221	03/02/2021	Area	2			452	904	100	9.5	12.102	0.005		03/10/21	Habedi	
21030517.03	MSE01-030321	03/03/2021	Area	2			456	912	100	15.5	19.745	0.008		03/10/21	Habedi	
21030517.04	MSE02-030321	03/03/2021	Area	2			442	884	100	11.0	14.013	0.006		03/10/21	Habedi	



A&B	JobID : 21030517	Date Receive	ed : 03	/05/2021		Time I	Received : 1:	00PM				
Clier	t Name : Gilbane											
Tem	perature : 17.6°C	Sample pH :	N/A									
Ther	mometer ID : 102002320	pH Paper ID	: N/A									
Pers	servative :											
		Cheo	ck 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	-custody.						Х				
5.	C-O-C signed and dated.							х				
6.	Sample(s) received with signed s	ample custody se	al.						Х			
7.	Sample containers arrived intact.	(If no comment).						Х				
	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other											
8	•									-		
8.]]		
8. 9.	•							X				
		priate container(s						 T		X		
9.	: Sample(s) were received in appro	priate container(s						 T				
9. 10.	Sample(s) were received in appro	priate container(s						x				
9. 10. 11.	: Sample(s) were received in appro Sample(s) were received with pro All samples were logged or labele	priate container(s per preservative d.						X X X				
9. 10. 11. 12.	: Sample(s) were received in appro Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID	priate container(s per preservative d. s ottles found.) .					X X X X				
9. 10. 11. 12. 13.	: Sample(s) were received in appro Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID Bottle count on C-O-C matches bo	priate container(s per preservative d. s ottles found. alyses requested.) .					x x x x x x				
9. 10. 11. 12. 13. 14.	: Sample(s) were received in appro Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID Bottle count on C-O-C matches bo Sample volume is sufficient for an	priate container(s per preservative d. s ottles found. alyses requested.) .					X X X X X X X				
9. 10. 11. 12. 13. 14. 15.	: Sample(s) were received in appro Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID Bottle count on C-O-C matches bo Sample volume is sufficient for an Samples were received within the	priate container(s per preservative d. s ottles found. alyses requested.) .					X X X X X X X		X		
9. 10. 11. 12. 13. 14. 15. 16.	: Sample(s) were received in approx Sample(s) were received with prox All samples were logged or labele Sample ID labels match C-O-C ID Bottle count on C-O-C matches bo Sample volume is sufficient for an Samples were received within the VOA vials completely filled.	priate container(s per preservative d. s ottles found. alyses requested.) .					x x x x x x x x		X		
9. 10. 11. 12. 13. 14. 15. 16. 17. 18	: Sample(s) were received in approx Sample(s) were received with prox All samples were logged or labeled Sample ID labels match C-O-C ID Bottle count on C-O-C matches bot Sample volume is sufficient for an Samples were received within the VOA vials completely filled. Sample accepted.	priate container(s per preservative d. s ottles found. alyses requested. hold time.	5).					x x x x x x x x		x		
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	: Sample(s) were received in approx Sample(s) were received with prove All samples were logged or labeled Sample ID labels match C-O-C ID Bottle count on C-O-C matches both Sample volume is sufficient for an Samples were received within the VOA vials completely filled. Sample accepted. Has client been contacted about	priate container(s per preservative d. s ottles found. alyses requested. hold time.	5).					x x x x x x x x		x		

Received by : CHendrix

Check in by/date : CHendrix / 03/05/2021

Event ID: Air Monitoring

COC# KTO30421ASB

Gilbane					a							Chain-O	f-Custo	ody	
Project Name and Number: Project Manager Site Location: <u>Hunters Point</u>	<u>HPNS Parcel I</u> , San Francisc			0		abora \ddres	s: <u>1</u>	0100 Ea	A&B Labs ast Fwy Ste TX 77029	e. 100	Contact Phone:		Date: Page: <u>1</u>	Ч <u>Ч</u>	
								Analys	is:						
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	ainer Typ	e:				Phow 1 2 C / Special Instruc Take f		
MS601-030221	3/4/21	1521	NA	NA	1	AA	1						424		
MSED2-030221 MSC01-030321 MSC02-030321	3/2/21 3/3/4 3/3/4	1534 1524 1532	\int)	J	7	X X X						452 456 442		
								{1,,2):2103051		
Sampled By: Kindely	to		_ [Sampl	~	Simb	ety	R	n			Courier/Airbill No.: FedEX	(1730 512		
Signature:				Relinqui		28	0	1- 1		Date:	Time:	Received By/ Affiliation:		Date:	Time:
Special Instructions: <u>N</u> M				Kiw	Vbert	12	m /	Ci lb	Che	3/2/4	1300	Fed (X Conley		3/1/4	1300
Send Results to:			_						9						
Turnaround Time: Standard			-					00	of 4 a la						

17.6 Page 4 of 4 D2002320

Job ID: 21030938



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 Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	03/10/2021 14:00
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-030421	Sample Collection Date & Time 3/4/2021 14:40	Matrix Cassette	A&B Job Sample ID 21030938.01
MSE02-030421	3/4/2021 14:47	Cassette	21030938.02
MSE01-030821	3/8/2021 15:48	Cassette	21030938.03
MSE02-030821	3/8/2021 15:42	Cassette	21030938.04

3-0

Released By: Senthilkumar Sevukan

Vice President Operations

Title:

Analyst:

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Date 3/19/2021

Job ID: 21030938 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPI	NS Parcel E F	Phase II .	131000040	00					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
21030938.01	MSE01-030421	03/04/2021	Area	2			384	768	100	10.5	13.376	0.007		03/19/21	Habedi
21030938.02	MSE02-030421	03/04/2021	Area	2			402	804	100	9.5	12.102	0.006		03/19/21	Habedi
21030938.03	MSE01-030821	03/08/2021	Area	2			421	842	100	9.0	11.465	0.005		03/19/21	Habedi
21030938.04	MSE02-030821	03/08/2021	Area	2			438	876	100	10.5	13.376	0.006		03/19/21	Habedi



A&B	JobID : 21030938	Date Receiv	ved : 03	/10/2021		Time I	Received : 2	2:00PM		
Clien	t Name : Gilbane									
Tem	perature : 20.1°C	Sample pH	: N/A	L.						
Ther	mometer ID : 102002320	pH Paper II): N/A							
Pers	ervative :									
		Che	eck 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-or	f-custody.						Х		
5.	C-O-C signed and dated.							х		
6.	Sample(s) received with signed	sample custody s	eal.						Х	
7.	Sample containers arrived intact	. (If no comment).					Х		
	Matrix Water Soil L	iquid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
Q		.q 0	Sona		1450	24				
8.	:									
8. 9.	•							□ x		
		opriate container	(s).							X
9.	:	opriate container	(s).							
9. 10.	: Sample(s) were received in approved in approxements apple(s) were received with preserved with	opriate container oper preservative ed.	(s).					X		
9. 10. 11.	: Control Cont	opriate container oper preservative ed. o's	(s).					x x x		
9. 10. 11. 12.	: Control Cont	opriate container oper preservative ed. o's ottles found.	(s).					x x x x		
9. 10. 11. 12. 13.	: Control Cont	opriate container oper preservative ed. O's ottles found. nalyses requeste	(s).					x x x x x		
 9. 10. 11. 12. 13. 14. 	: Sample(s) were received in approximately solver received with provide the sample of the sample solution of the sample solution of the sample volume is sufficient for a sample volume volume is sufficient for a sample volume vo	opriate container oper preservative ed. O's ottles found. nalyses requeste	(s).					x x x x x x x		
 9. 10. 11. 12. 13. 14. 15. 	: Sample(s) were received in approximately some received with proximately some received with proximately some some logged or labeley some logged or labeley some logged or labeley some some some some some some some some	opriate container oper preservative ed. O's ottles found. nalyses requeste	(s).					x x x x x x x		X
 9. 10. 11. 12. 13. 14. 15. 16. 	: Sample(s) were received in approximately some received with proximately some received with proximately some received with proximately some received with some some received within the VOA vials completely filled.	opriate container oper preservative ed. o's ottles found. nalyses requeste e hold time.	(s).					X X X X X X X X		X
9. 10. 11. 12. 13. 14. 15. 16. 17. 18	: Sample(s) were received in approximately some received with provide the sample of th	opriate container oper preservative ed. o's ottles found. nalyses requeste e hold time.	(s).					X X X X X X X X		x
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	: Construction of the second s	opriate container oper preservative ed. o's ottles found. nalyses requeste e hold time. t sub-out esolve discrepane	(s).					X X X X X X X X		x

JMontemayor / 03/10/2021

Event ID: Air Monitoring



COC#KTO 30921AVB

Chain-Of-Custody

Gilbane										Chain-O	f-Custo	ody	
Project Name and Number: Project Manager Site Location: <u>Hunters Point</u>	HPNS Parcel			00		abora. Addres	atory Name: <u>A&B La</u> ss: <u>10100 East Fwy S</u> <u>Houston TX 7702</u>	Ste. 100	Contact N Phone:		Date: Page: <u>1</u>	_of <u>1</u>	
Sample ID MX101-D30421 NA MS602-030421 02A MS601-030821 03A MS602-030821 040	N/8/2 N/8/2 N/8/2 N/8/2 N/8/2	الله ۱۲۷۷۵ ۱۲۹۲ ۱۶۹۶ ۱۶۹۲	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:				Flaw va 2-4. Special Instruc Total Min 384 40~ 421 438		
Sampled By: Signature: Special Instructions:N Send Results to: Turnaround Time: <u>Standard</u>				Samoli Relinqui	01100 0	1	augn: 5)X	Date:	Time: 1400	Courier/Airbill No.: FedEX Received By/ Affiliation:	3-111-2	Date:	Time:

Job ID: 21031125



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 1310000400

Report To :	Client Name:	Gilbane	Total Number of Pages:	5
	Attn:	Brett Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	03/12/2021 10:00
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-030921	Sample Collection Date & Time 3/9/2021	Matrix Cassette	A&B Job Sample ID 21031125.01
MSE02-030921	3/9/2021	Cassette	21031125.02
MSE01-031021	3/10/2021	Cassette	21031125.03
MSE02-031021	3/10/2021	Cassette	21031125.04

ausnu Hugues

Released By: Alisha Hughes

Title: Project Manager

Analyst:



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ab-q210-0321 4/20/2021



A&B Job ID: 21031125

Date: 04/20/21

Attn: Brett Womack

Client Name:GilbaneProject Name:HPNS Parcel E Phase II 1310000400Date Received:03/12/21Collected By:Kimberly Tom

REVISED REPORT -

The attached report was revised to update the collection dates for each sample per client email. The following changes were made.

Please revise the date collected on SDG 21031125 to match the date collected shown on the COC:

MES01-030921 ---> 03/09/21 MES02-030921 ---> 03/09/21 MES01-031021 ---> 03/10/21 MES02-031021 ---> 03/10/21

ausnu Hugues

Released By: Alisha Hughes

Title: Project Manager



Date 4/20/2021

Job ID: 21031125 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPN	NS Parcel E F	Phase II 🛛	13100004	00					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
21031125.01	MSE01-030921	03/09/2021	Area	2.0			366	732	100	10.5	13.376	0.007		03/25/21	Habedi
21031125.02	MSE02-030921	03/09/2021	Area	2.0			392	784	100	8.5	10.828	0.005		03/25/21	Habedi
21031125.03	MSE01-031021	03/10/2021	Area	2.0			401	802	100	7	8.917	0.004		03/25/21	Habedi
21031125.04	MSE02-031021	03/10/2021	Area	2.0			393	786	100	8.5	10.828	0.005		03/25/21	Habedi



A&B	JobID : 21031125	Date Receive	ed : 03	/12/2021		Time I	Received : :	10:00AM		
Clien	t Name : Gilbane									
Tem	perature : 19.2°C	Sample pH :	n/a							
Ther	mometer ID : 102002320	pH Paper ID	: n/a							
Pers	servative :									
		Che	ck 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-o	of-custody.						х		
5.	C-O-C signed and dated.							х		
6.	Sample(s) received with signed	sample custody se	eal.						Х	
7.	Sample containers arrived intact	t. (If no comment)						х		
	Matrix Water Soil I	Liquid Sludge		<u> </u>		Dulla	Badge	Food	Oth	er
Q		Liquiu Siuuye	Solid	Cassette	Tube	Bulk	вайуе	FUUU	Ulli	
8.				Cassette						-
8. 9.	•						5			-
		ropriate container(5			-
9.	: Sample(s) were received in appr	ropriate container(5			
9. 10.	: Sample(s) were received in appr Sample(s) were received with pr	ropriate container(roper preservative led.					5	х		
9. 10. 11.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label	ropriate container(roper preservative led. D's					5	x x x		
9. 10. 11. 12.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II	ropriate container(roper preservative led. D's bottles found.	□ s).				5	□		
9. 10. 11. 12. 13.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches t	ropriate container(roper preservative led. D's bottles found. analyses requested	□ s).				5	□		
 9. 10. 11. 12. 13. 14. 	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches the Sample volume is sufficient for a	ropriate container(roper preservative led. D's bottles found. analyses requested	□ s).				5	X X X X X X X X X X X		
 9. 10. 11. 12. 13. 14. 15. 	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches the Sample volume is sufficient for a Samples were received within the	ropriate container(roper preservative led. D's bottles found. analyses requested	□ s).				5	X X X X X X X X X X X		X
 9. 10. 11. 12. 13. 14. 15. 16. 	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches to Sample volume is sufficient for a Samples were received within th VOA vials completely filled.	ropriate container(roper preservative led. D's bottles found. analyses requested ne hold time.	□ s).				5	□ X X X X X X X X X		X
9. 10. 11. 12. 13. 14. 15. 16. 17. 18	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches to Sample volume is sufficient for a Samples were received within the VOA vials completely filled. Sample accepted.	ropriate container(roper preservative led. D's bottles found. analyses requested ne hold time.	s).				5	□ X X X X X X X X X		x
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches th Sample volume is sufficient for a Samples were received within th VOA vials completely filled. Sample accepted. Has client been contacted about	ropriate container(roper preservative led. D's bottles found. analyses requested he hold time. It sub-out resolve discrepanci	s).	✓			5	□ X X X X X X X X X		x

Received by : AOballe

JMontemayor / 03/12/2021

www.ablabs.com

Event ID: Air Monitoring

COC# KT031121ASBE

HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs Address: 10100 East Fwy Ste. 100 Contact Houston TX 77029 Phone: Address: 10100 East Fwy Ste. 100 Contact Bample Depth (lopp) Nample Depth (lopp) Phone: 3/9/20221 1520 NA 1 AA 3/9/20221 1528 NA 1 AA Sample Depth (lopp) Noic Noic Containers Bample Depth (lopp) Noic Analysis: Contact Bample Depth (lopp) Noic Sample Depth (lopp) Phone: Bample Depth (lopp) Noic Analysis: Analysis: Bample Depth (lopp) Noic Sample Depth (lopp) Phone: Bample Depth (lopp) Noic Sample Depth (lopp) Phone: Sampler Kowb.out Titleter Phoe: Contact Bampler Kowb.out Titleter Phoe: Contact Bampler Kowb.out Titleter A Contact Bampler Kowb.out Titleter Phoe: Contact	Gilbane										Chain-Of-Custody	lstody
Indicess Ioloo East Fray Ste. 100 Contact Image Houston TX 77029 Phone: Image Release Houston TX 77029 Image Release Analysis: Image Release Release	Project Name and Number:	HPNS Parcel E	Phase II [310	000400	Ĭ	Lab	oratory		abs		Date:	e: 3/11/2021
mille ID Date mille ID Date mille ID Date 339221 3392021 339221 3392021 339221 3392021 3392021 3392021 3392021 3392021 3392021 3392021 3392021 1524 M A A A M A A A 331021 310/2021 310221 310/2021 310213 310/2021 310214 A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A	Project Manager Site Location: Hunters Point	b San Francisco	o, CA 9412 [,]			Adc	Iress:	10100 East Fwy Houston TX 7702	Ste. 100 29	Contact Phone:	Page: 1	e: <u>1</u> of <u>1</u>
ImpleID ImpleID MapleID Maple Depth (bottom) 330921 3392021 339221 3392021 339221 3392021 339221 3392021 339221 3392021 339221 3392021 331021 310/202						-		Analysis:				
mple ID Date Time Time Time Time Time 330921 3/9/2021 1520 NA NA 1 AA X 330921 3/9/2021 1520 NA NA 1 AA X 330921 3/9/2021 1520 NA NA 1 AA X 331021 3/10/2021 1528 NA 1 AA X 34 X X				(top) (top)	(mottod) Atpa						* Job ID:21031125	1125
mple ID A Na 1 AA X 330921 3/9/2021 1520 NA NA 1 AA X 330921 3/9/2021 1520 NA NA 1 AA X 330921 3/9/2021 1521 NA NA 1 AA X 330921 3/9/2021 1521 NA NA 1 AA X 331021 3/10/2021 1528 NA NA 1 AA 331021 3/10/2021 1528 NA NA X 310 MA 1 AA X Mot K MA 1 AA X Mot K Na 1 AA X Mot K MA K Ma K Mot K K Ma K Ma Mot K K Ma<	Saman K	ə	əı	u əlqı	nple D			eservative: one			Flow	Flow Rate = 2 L/min
330921 39/2021 1520 NA NA 1 AA X 330921 33/2021 1521 NA NA 1 AA X 331021 33/10/2021 1528 NA NA 1 AA X 331021 3/10/2021 1528 NA NA X X 331021 3/10/2021 1528 NA NA X X 331021 3/10/2021 1528 NA NA X X W M 1 AA X X<	Sample ID	Dat	miT	nse	ues			ntainer Type: ilter			Special Total	Special Instructions/Comments Total Time (min)
330921 3/9/2021 1534 NA 1 AA X 331021 3/10/2021 1521 NA 1 AA X 331021 3/10/2021 1528 NA 1 AA X 031021 Ma 1 AA X Ma 031021 Ma Ma 1 AA X 04003 Ma Ma Ma Ma Ma	MSE01-030921	3/9/2021	1520		NA	1 4					366	
331021 3/10/2021 1521 NA NA 1 AA X 331021 3/10/2021 1528 NA NA 1 AA X 331021 3/10/2021 1528 NA NA 1 AA X W. M.	MSE02-030921	3/9/2021	1534		NA	1 4					392	
331021 3/10/2021 1528 NA NA 1 AA X W. K. M. R. M. K. M	MSE01-031021	3/10/2021	1521		NA	1 4					401	
W: K. K. Sampler: K.M. B.M. K. Sampler: K.M. B.M. K. Bate: Time: Time: Time: L. W. M.M. K. K. M. M.M. K. K. M.M. K. M.M. K. K. K. K. K. M. K.	MSE02-031021	3/10/2021	1528		NA	1 1 4		~			1 393	
W. K. M. Lander: K. M. Baulu, K. Sampler: K. M. Baulu, K. Bainder: K. M. Baulu, K. Bainder: K. M. Baulu, K. Baine: Time: Time: Time: Time: Time: The structions: Nie (K. M. K. Courses) (K. M. K. K. M. K. K. M. K												
W. K. K. Sampler: K.M. B. M. K. Bampler: K.M. B. M. K. Bander: K.M. B. M. K. Bander: K.M. B. M. K. M. K. Bander: Time: T						-						
With the Sampler: Kunberly the Time: Time: A structions: Non- structions: Non- Le U20023US Prodres 1/4/1/4 1/400 A filliation: July the Ju							1					
W: K. K. Sampler: N.M. B.Q. W. K. Belinquished By/Affiliation: Date: Time: P structions: Nor- Le U2002325 Front a July W. J. M. A.												¥
Relinquished By/Affiliation: Date: Time: Time: All of the Structions: Non- structions: Non- E- W2COUSTUS Transmission of the Study with the Study of	Sampled By:	100		- 00 1	ampler:	1º	when	in the		-	Courier/Airbill No.: FedEx/ 7731 3412 3992	3992
al Instructions: Nad 9.2 - 102002372 Is to: Teolex Teolex 1 - 101 leve 3/u/u 1400	Signature:			Re	linquish	ed By/A	ffiliation:	P	Date:	Time:	Received By/ Affiliation:	Date: Time:
ts to:	Special Instructions: <u>Na-</u> 19.2 - 16200	SIBIS			quit	h	1-2	14. bur	3/11/4	Cury 1	Rule	3/4/21 12/m
	Send Results to:			1	P	Jex					Amondeu	3.12.21 10Am
Turnaround Time: <u>Standard</u>	Turnaround Time: <u>Standard</u>											

Job ID: 21031698



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 Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	03/19/2021 10:08
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-031621	Sample Collection Date & Time 3/16/2021	Matrix Cassette	A&B Job Sample ID 21031698.01
MSE02-031621	3/16/2021	Cassette	21031698.02
MSE01-031721	3/17/2021	Cassette	21031698.03
MSE02-031721	3/17/2021	Cassette	21031698.04

ausnu Hugues

Released By: Alisha Hughes

Title: Project Manager

Analyst:

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Date 3/23/2021

Job ID: 21031698 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HP	NS Parcel E F	Phase II .	131000040	00					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
21031698.01	MSE01-031621	03/16/2021	Area	2			340	680	100	12.5	15.924	0.009		03/23/21	Habedi
21031698.02	MSE02-031621	03/16/2021	Area	2			442	884	100	9.5	12.102	0.005		03/23/21	Habedi
21031698.03	MSE01-031721	03/17/2021	Area	2			486	972	100	10.5	13.376	0.005		03/23/21	Habedi
21031698.04	MSE02-031721	03/17/2021	Area	2			504	1008	100	12.5	15.924	0.006		03/23/21	Habedi



A&B	JobID : 21031698	Date Receive	ed : 03 ,	/19/2021		Time	Received : :	10:08AM		
Clier	t Name : Gilbane									
Tem	perature : 20.1°C	Sample pH :	n/a							
Ther	mometer ID : 102002320	pH Paper ID	: n/a							
Pers	ervative :									
		Che	ck 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-o	of-custody.						х		
5.	C-O-C signed and dated.							х		
6.	Sample(s) received with signed	sample custody se	eal.						Х	
7.	Sample containers arrived intact	t. (If no comment).						х		
	Matrix Water Soil I	Liquid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8	•									-
8.				\checkmark						
8. 9.	: Sample(s) were received in appr	ropriate container(<u> </u>		
-								Ц Х		x
9.	Sample(s) were received in appr	roper preservative		V				x x x		X
9. 10.	Sample(s) were received in appr Sample(s) were received with pr	roper preservative								X
9. 10. 11.	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label	roper preservative led. D's						X		X
9. 10. 11. 12.	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C I	roper preservative led. D's pottles found.	s).					x x x		X
9. 10. 11. 12. 13.	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches t	roper preservative led. D's pottles found. analyses requested	s).					x x x x		X
9. 10. 11. 12. 13. 14.	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches the Sample volume is sufficient for a	roper preservative led. D's pottles found. analyses requested	s).					x x x x x x		x
9. 10. 11. 12. 13. 14. 15.	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches to Sample volume is sufficient for a Samples were received within th	roper preservative led. D's pottles found. analyses requested	s).					x x x x x x		
9. 10. 11. 12. 13. 14. 15. 16.	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches to Sample volume is sufficient for a Samples were received within the VOA vials completely filled.	roper preservative led. D's pottles found. analyses requested ne hold time.	s).					x x x x x x x x		
9. 10. 11. 12. 13. 14. 15. 16. 17. 18	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches the Sample volume is sufficient for a Samples were received within the VOA vials completely filled. Sample accepted.	roper preservative led. D's pottles found. analyses requested he hold time.	s).					x x x x x x x x		x
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	Sample(s) were received in appr Sample(s) were received with pr All samples were logged or label Sample ID labels match C-O-C II Bottle count on C-O-C matches th Sample volume is sufficient for a Samples were received within th VOA vials completely filled. Sample accepted. Has client been contacted about	roper preservative led. D's pottles found. analyses requested he hold time. It sub-out resolve discrepanci	s).	em:				x x x x x x x x x x		x

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Event ID: Air Monitoring

filbane



COC# KT031821ASB

Chain-Of-Custody

	Project Name and Number:	HPNS Parcel		3100004	00	-	Labora	atory I	lame: A&B	Labs			Date: 3/18/2021
	Project Manager: <u>Brett Wom</u>					-	Addres	ss:]	0100 East Fw	y Ste. 100		Name: <u>Alisha Hughes</u>	Page: <u>1</u> of _1
	Site Location: <u>Hunters Poin</u>	nt, San Francis	co, CA 941	24		-		Ī	Iouston TX 77	029	Phone:	713-453-6060	
									Analysis:				
ł	Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	iner Type:				Flow Rate = 2 L/min Special Instructions/Comment Total Time (min)
	MSE01-031621	3/16/2021	1530	NA	NA	1	AA	Х					340
ł	MSE02-031621	3/16/2021	1512	NA	NA	1	AA	Х		_			442
ŀ	MSE01-031721	3/17/2021	1555	NA	NA	1	AA	Х					486
	MSE02-031721	3/17/2021	1542	NA	NA	1	AA	Х					504
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	Sampled By: Krybuly	A		-	Sample	4	int	shy	th	Data		Courier/Airbill No.: FedEx/	
	Signature:			_ [eninquis	neu by	y/Annia	uong		Date:	Time:	Received By/ Affiliation:	Date: Time
	Special Instructions:N	ne		- 1	Zinb	erly	To F	n Ela	Cuilder	3/18/	2 1400	hd Gr	3-19-20 1008
	Send <u>kcarlyon@gilba</u> Results to: ktom@gilbanec			_			1						
į	Turnaround Time: Standard	urnaround Time: Standard										2	11-1 lambon
1									Page 4 of 4			NC (CS	n. j. C. loomeson

Job ID: 21031996



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 J3J10000400

Report To :	Client Name:	Gilbane	Total Number of Pages:	4
	Attn:	Brett Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	03/24/2021 12:00
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-031821	Sample Collection Date & Time 3/18/2021 15:38	Matrix Cassette	A&B Job Sample ID 21031996.01
MSE02-031821	3/18/2021 15:42	Cassette	21031996.02
MSE01-031921	3/19/2021 14:30	Cassette	21031996.03
MSE02-031921	3/19/2021 14:40	Cassette	21031996.04
MSE01-032221	3/22/2021 15:49	Cassette	21031996.05
MSE02-032221	3/22/2021 15:42	Cassette	21031996.06

5-(

Released By: Senthilkumar Sevukan

Vice President Operations

Title:

Analyst:

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Date 3/29/2021

Job ID: 21031996 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPN	NS Parcel E I	Phase II .	J3J100004	100					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
21031996.01	MSE01-031821	03/18/2021	Area	2			400	800	100	15.0	19.108	0.009		03/29/21	Habedi
21031996.02	MSE02-031821	03/18/2021	Area	2			442	884	100	14.5	18.471	0.008		03/29/21	Habedi
21031996.03	MSE01-031921	03/19/2021	Area	2			339	678	100	11.0	14.013	0.008		03/29/21	Habedi
21031996.04	MSE02-031921	03/19/2021	Area	2			383	766	100	12.0	15.287	0.008		03/29/21	Habedi
21031996.05	MSE01-032221	03/22/2021	Area	2			451	902	100	12	15.287	0.007		03/29/21	Habedi
21031996.06	MSE02-032221	03/22/2021	Area	2			477	954	100	11.5	14.650	0.006		03/29/21	Habedi



A&B	JobID : 21031996	Date Receiv	ved : 03	/24/2021		Time I	Received :	12:00PM		
Clier	t Name : Gilbane					I				
Tem	perature : 20.7°C	Sample pH	: N/A							
Ther	mometer ID : 102002320	pH Paper II): N/A							
Pers	ervative :									
		Che	eck 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	f-custody.						х		
5.	C-O-C signed and dated.							х		
6.	Sample(s) received with signed	sample custody s	eal.						Х	
7.	Sample containers arrived intact	. (If no comment)).					х		
	Matrix Water Soil L	iquid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.								<u> </u>		
8.				\checkmark						
8. 9.	: Sample(s) were received in appro							□ X		
-		opriate container	(s).							X
9.	Sample(s) were received in appro	opriate container	(s).							
9. 10.	Sample(s) were received in appro	opriate container oper preservative ed.	(s).					X		
9. 10. 11.	Sample(s) were received in appro Sample(s) were received with pro All samples were logged or labele	opriate container oper preservative ed. D's	(s).					x x x		
9. 10. 11. 12.	Sample(s) were received in approved in approved in approved with provement of the sample of the sample series of t	opriate container oper preservative ed. D's ottles found.	(s).					x x x x		
9. 10. 11. 12. 13.	Sample(s) were received in approx Sample(s) were received with pr All samples were logged or labele Sample ID labels match C-O-C ID Bottle count on C-O-C matches b	opriate container oper preservative ed. O's ottles found. nalyses requester	(s).					x x x x x x		
9. 10. 11. 12. 13. 14.	Sample(s) were received in appro Sample(s) were received with pr All samples were logged or labele Sample ID labels match C-O-C ID Bottle count on C-O-C matches b Sample volume is sufficient for a	opriate container oper preservative ed. O's ottles found. nalyses requester	(s).					x x x x x x x x		
 9. 10. 11. 12. 13. 14. 15. 	Sample(s) were received in approx Sample(s) were received with provide the sample of t	opriate container oper preservative ed. O's ottles found. nalyses requester	(s).					x x x x x x x x		X
 9. 10. 11. 12. 13. 14. 15. 16. 	Sample(s) were received in approx Sample(s) were received with provide the sample of t	opriate container oper preservative ed. D's ottles found. nalyses requester e hold time.	(s).					x x x x x x x x x		X
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	Sample(s) were received in approximately app	opriate container oper preservative ed. O's ottles found. nalyses requested e hold time. t sub-out						x x x x x x x x x		x
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	Sample(s) were received in approximately app	opriate container oper preservative ed. O's ottles found. nalyses requested e hold time. t sub-out	(s).					x x x x x x x x x		x

JMontemayor / 03/24/2021

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Gilbane												Cł	nain	-Of	-Cust	tody	
Project Name and Number:	HPNS Parcel E	Phase II J3	100004	00)	abora	atory N	ame:	A&B L	abs					Date: 3	/23/2021	
Project Manager:					- /	Addres	ss: <u>1(</u>	010 0 I	East Fwy	Ste. 100	Contac				– Page: 1	of	
Site Location: Hunters Poin	t, San Francisc	o, CA 941	24	_	-		H	ousto	n TX 770	129	_ Phone				-		
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			Sample Depth (top)	Sample Depth (bottom)	of Containers	i xi	Asbestos										
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Sample ID	Date	Time	Sam	Sam	No.	Sample Matrix		iner Ty	rpe:						Special Inst Total Tim	ructions/Con	nments
MSE01-031821	3/18/2021	1538	NA	NA	1	AA	х								400	OVA	
MSE02-031821	3/18/2021	1542	NA	NA	1	AA	х								442	AZO	
MSE01-031921	3/19/2021	1430	NA	NA	1	AA	х								339	034	
MSE02-031921	3/19/2021	1440	NA	NA	1	AA	X								383	14A	
MSE01-032221	3/22/2021	1549	NA	NA	1	AA	х								451	osA	
MSE02-032221	3/22/2021	1542	NA	NA	1	AA	Х								477	064	
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Send												/					
Results to:			_														
Turnaround Time: Standard															21.70	1000/120	-
randround rine.															01-10	1000/320	1

Job ID: 21032263



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 Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	03/26/2021 13:28
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-032321	Sample Collection Date & Time 3/23/2021 15:22	Matrix Cassette	A&B Job Sample ID 21032263.01
MSE02-032321	3/23/2021 15:26	Cassette	21032263.02
MSE01-032421	3/24/2021 17:02	Cassette	21032263.03
MSE02-032421	3/24/2021 17:09	Cassette	21032263.04

5-0

Released By: Senthilkumar Sevukan

Vice President Operations

Title:

Analyst:

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Date 3/30/2021

Job ID: 21032263 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPN	NS Parcel E F	Phase II .	131000040	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	
21032263.01	MSE01-032321	03/23/2021	Area	2			445	890	100	13.5	17.197	0.007		03/30/21	Habedi	
21032263.02	MSE02-032321	03/23/2021	Area	2			461	922	100	10.0	12.739	0.005		03/30/21	Habedi	
21032263.03	MSE01-032421	03/24/2021	Area	2			518	1036	100	12.5	15.924	0.006		03/30/21	Habedi	
21032263.04	MSE02-032421	03/24/2021	Area	2			549	1098	100	12.5	15.924	0.006		03/30/21	Habedi	



A&B	JobID : 21032263	Date Receive	ed : 03,	/26/2021		Time I	Received : 1	:28PM		
Clier	t Name : Gilbane	I								
Tem	perature : 20.1°C	Sample pH :	n/a							
Ther	mometer ID : 102002320	pH Paper ID	: n/a							
Pers	servative :									
	-									
		Cheo	ck 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-c	of-custody.						Х		
5.	C-O-C signed and dated.							Х		
6.	Sample(s) received with signed	sample custody se	al.						Х	
7.	Sample containers arrived intact	t. (If no comment).						Х		
	Matrix Water Soil	Liquid Sludge		<u> </u>	Tube	Bulk	Badge	Food	Oth	er
8		Liquid Siduge	Solid	Cassette	Tube	вик	bauge	1000	oth	•
8.				Cassette						
8. 9.										
		ropriate container(s								
9.	: Sample(s) were received in appr	ropriate container(s								
9. 10.	: Sample(s) were received in appr Sample(s) were received with p	ropriate container(s						<u> </u>		
9. 10. 11.	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or labe	ropriate container(s roper preservative led. D's						x x x		
9. 10. 11. 12.	: Sample(s) were received in appr Sample(s) were received with p All samples were logged or laber Sample ID labels match C-O-C I	ropriate container(s roper preservative led. D's pottles found.	□ ₅).					x x x x		
9. 10. 11. 12. 13.	: Sample(s) were received in appr Sample(s) were received with p All samples were logged or laber Sample ID labels match C-O-C I Bottle count on C-O-C matches I	ropriate container(s roper preservative led. D's pottles found.	□ ₅).					□ X X X X X X		
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9. 10. 11. 12. 13. 14. 15. 16. 17. 18	: Sample(s) were received in appr Sample(s) were received with pr All samples were logged or laber Sample ID labels match C-O-C I Bottle count on C-O-C matches I Sample volume is sufficient for a Samples were received within th VOA vials completely filled. Sample accepted.	ropriate container(s roper preservative led. D's pottles found. analyses requested. ne hold time.	5).					□ X X X X X X X X X		x
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Received by : AOballe

Check in by/date : CHendrix / 03/26/2021

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Event ID: Air Monitoring

Gilbane



COC# KT032521ASB

Chain-Of-Custody

	Project Name and Number:	HPNS Parcel I	E Phase II J	3100004	00			100	Name:	A&B L	abs			Date: 3/2	5/2021	
	Project Manager:- Site Location: <u>Hunters Poin</u>	t, San Franciso	co, CA 941	24			Addre	-	0100 E Iouston		<u>/ Ste. 100</u> 029	Contact	Name:	— Page: <u>1</u>	_of <u>1</u>	
							-		Analy	sis:				_		
	Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers		Nor	ainer Typ	D6:				Flow Rate	ctions/Corr	
IA	MSE01-032321	3/23/2021	1522	NA	NA	1	AA	Х						445	()	
ZA	MSE02-032321	1 3/23/2021 1 3/24/2021	1526	NA NA	NA	1	AA	X						461		
SA	MSE01-032421		1702		NA	1	AA	Х						518		
HA	MSE02-032421	3/24/2021	1709	NA	NA	1	AA 	X						549		
														₩.		
	Sampled By: KMDahy	tr			Sample	r: Ka	i nal -	1.	1	-			Courier/Airbill No.: FedEx/	7732 6492 5878		
5	Signature:			R	elinquis	shed B	y/Affilia	tion	-68	2	Date:	Time:	Received By/ Affiliation:		Date:	Time:
3	Special Instructions:		Kin	Joeli	Ŷ	6m	Cul	a	3/2/	1400	Fed Ga		3/25/21	170		
	Send Results to:				Tec	le×	4		_				Amanda	3.	2621	132
Į	Furnaround Time: <u>Standard</u>								Dago 4							



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Laboratory Analysis Report

Job ID: 21040031



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 Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	04/01/2021 09:57
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-032521	Sample Collection Date & Time 3/25/2021 16:33	Matrix Cassette	A&B Job Sample ID 21040031.01
MSE02-032521	3/25/2021 16:36	Cassette	21040031.02
MSE01-032621	3/26/2021 13:10	Cassette	21040031.03
MSE02-032621	3/26/2021 13:20	Cassette	21040031.04
MSE01-032921	3/29/2021 15:36	Cassette	21040031.05
MSE02-032921	3/29/2021 15:32	Cassette	21040031.06

5-0

Released By: Senthilkumar Sevukan

Vice President Operations

Title:

Analyst:

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

Date 4/7/2021

Job ID: 21040031 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPN	NS Parcel E I	Phase II .	J3100004(00					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
21040031.01	MSE01-032521	03/25/2021	Area	2			501	1002	100	10.0	12.739	0.005		04/06/21	Habedi
21040031.02	MSE02-032521	03/25/2021	Area	2			519	1038	100	8.0	10.191	0.004		04/06/21	Habedi
21040031.03	MSE01-032621	03/26/2021	Area	2			313	626	100	10.5	13.376	0.008		04/06/21	Habedi
21040031.04	MSE02-032621	03/26/2021	Area	2			340	680	100	9.5	12.102	0.007		04/06/21	Habedi
21040031.05	MSE01-032921	03/29/2021	Area	2			407	814	100	9.0	11.465	0.005		04/06/21	Habedi
21040031.06	MSE02-032921	03/29/2021	Area	2			441	882	100	9.5	12.102	0.005		04/06/21	Habedi

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

Sample Condition Checklist



A&B	JobID : 21040031	Date Rec	eived : 04	/01/2021		Time I	Received :	9:57AM		
Clier	t Name : Gilbane									
Tem	perature : 19.7°C	Sample p	H: na							
Ther	mometer ID : 102002320	pH Paper	ID: na							
Pers	ervative :									
		C	heck 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-o	of-custody.						Х		
5.	C-O-C signed and dated.							Х		
6.	Sample(s) received with signed	sample custody	seal.						Х	
7.	Sample containers arrived intac	t. (If no comme	ıt).					Х		
	Matrix Water Soil	Liquid Sludge	e Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8	•								-	-
8.										
8. 9.	:							□ X		
		ropriate contain	er(s).					<u>х</u>		x
9.	Sample(s) were received in app	ropriate contain	er(s).					□ X X X		X
9. 10.	Sample(s) were received in app Sample(s) were received with p	ropriate contain proper preservati	er(s).						×	X
9. 10. 11.	Sample(s) were received in app Sample(s) were received with p All samples were logged or labe	ropriate contain proper preservati eled.	er(s).						X	X
9. 10. 11. 12.	Sample(s) were received in app Sample(s) were received with p All samples were logged or labe Sample ID labels match C-O-C I	ropriate contain proper preservati eled. D's bottles found.	□ er(s). ve					X	X	X
9. 10. 11. 12. 13.	Sample(s) were received in app Sample(s) were received with p All samples were logged or labe Sample ID labels match C-O-C I Bottle count on C-O-C matches	ropriate contain proper preservation eled. D's bottles found. analyses reques	□ er(s). ve					x	X	X
9. 10. 11. 12. 13. 14.	Sample(s) were received in app Sample(s) were received with p All samples were logged or labe Sample ID labels match C-O-C I Bottle count on C-O-C matches Sample volume is sufficient for a	ropriate contain proper preservation eled. D's bottles found. analyses reques	□ er(s). ve					x x x x	X	x
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9. 10. 11. 12. 13. 14. 15. 16. 17. 18	Sample(s) were received in app Sample(s) were received with p All samples were logged or labe Sample ID labels match C-O-C I Bottle count on C-O-C matches Sample volume is sufficient for a Samples were received within th VOA vials completely filled. Sample accepted.	ropriate contain proper preservation eled. D's bottles found. analyses reques he hold time.	Led.					x x x x x x	X	x
9. 10. 11. 12. 13. 14. 15. 16. 17. 18 Com	Sample(s) were received in app Sample(s) were received with p All samples were logged or labe Sample ID labels match C-O-C I Bottle count on C-O-C matches Sample volume is sufficient for a Samples were received within th VOA vials completely filled. Sample accepted. Has client been contacted about	iropriate contain proper preservation eled. D's bottles found. analyses reques he hold time. ut sub-out resolve discrepa	er(s). ve ted.					x x x x x x	X	x

Received by : AOballe

Check in by/date : AOballe / 04/01/2021

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Manual Chain-Of-Custody Wer men Number Instruction Der 300201 Wer Mannego Latora Number Latora Number Der 300201 Wer Mannego Latora Number Latora Number Der 300201 Jacoban Manner Manner Manner Der 300201 Stein - 032221 Did Zastorani 1820 Mini 1 Mini 1 Stein - 032221 Did Zastorani 1820 Mini 1 Mini 1 Stein - 032221 Did Zastorani 1820 Mini 1 Mini 1 Stein - 032221 Did Zastorani 1820 Mini 1 Mini 1 Stein - 032221 Did Zastorani 1820 Mini 1 Mini 1 Stein - 032221 Did Zastorani 1820 Mini 1 Mini 1 Stein - 032221 Did Zastorani 1820	Event ID: Air Monitoring	Air N	Aonitor	ing						СОС# КТ033	KT033021ASB	
Internet. HDNS Parel E Place II 210000400 Lebra Status (Lob Lebra Fixy Sile, Lig) Date: 3000 Lebra Fixy Sile, Lig) Date: 3000 Lebra Fixy Sile, Lig) Hunters Point, Sin Fixancico, CA 91134 Housens in Contract Name Adress Louo Lias Fixy Sile, Lig) Date Table 2000000000000000000000000000000000000	Filba	Je								CI	hain-Of-Custody	
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SE02-032521	ULA	3/25/2021	1636	NA	AN	۲ ۲		×		519	
22821 UVA 3/26/2021 1320 NA NA 1 AA X 22921 UVA 3/29/2021 1536 NA NA 1 AA X 22921 UVA 3/29/2021 1532 NA NA 1 AA X 441 441 441 441 441 441 441 44	SE01-032621	03A	3/26/2021	1310	NA	AN	+		×		313	
32921 UCA 3/29/2021 1532 NA NA 1 AA X 32921 UCA 3/29/2021 1532 NA NA 1 AA X 32921 UCA 3/29/2021 1532 NA NA 1 AA X 32921 UCA 3/29/2021 1532 NA NA 1 AA X 32921 UCA 3/29/2021 1532 NA NA 1 AA 32921 Sampler: K-MPaA K K X 441 uctions: Naw Sampler: K-MPaA K 29/21152 ULCO23Lo Naw Martination Date: Time: Received By/Affiliation: Date: Time: Standard Martination Martination Martination 3/5/u Time: Standard Martination Martination 1/1.2	SE02-032621	AUDO	3/26/2021	1320	AA	AA	4 I		×		340	
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Page 4 of 5



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Laboratory Analysis Report

Job ID: 21040169



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 Womack	P.O.#. :	J310000400-0015
	Client Address:	1655 Grant Street, Suite 1200	Date Received :	04/05/2021 10:30
	City, State, Zip:	Concord, California, 94520	Sample Collected By :	Kimberly Tom

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

Client Sample ID MSE01-033021	Sample Collection Date & Time 3/30/2021 15:12	Matrix Cassette	A&B Job Sample ID 21040169.01
MSE02-033021	3/30/2021 15:16	Cassette	21040169.02
MSE01-033121	3/31/2021 16:52	Cassette	21040169.03
MSE02-033121	3/31/2021 16:58	Cassette	21040169.04

J. CT Like :-

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:



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ab-q210-0321

4/9/2021

Report Number: RPT210409033



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 4/9/2021

Job ID : 21040169 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPI	NS Parcel E F	Phase II .	131000040	00					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
21040169.01	MSE01-033021	03/30/2021	Area	2			455	910	100	13.0	16.561	0.007		04/09/21	Habedi
21040169.02	MSE02-033021	03/30/2021	Area	2			473	946	100	12.5	15.924	0.006		04/09/21	Habedi
21040169.03	MSE01-033121	03/31/2021	Area	2			530	1060	100	19.0	24.204	0.009		04/09/21	Habedi
21040169.04	MSE02-033121	03/31/2021	Area	2			556	1112	100	11.0	14.013	0.005		04/09/21	Habedi

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

Sample Condition Checklist



A&B	JobID : 21040169	Date Recei	ved : 04	/05/2021		Time	Received : 1	0:30AM		
Clier	t Name : Gilbane									
Tem	perature : 20.4°C	Sample pH	: NA							
Ther	mometer ID : 102002320	pH Paper I	D: NA							
Pers	ervative :									
										-
		Ch	eck Poin	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-or	f-custody.						х		
5.	C-O-C signed and dated.							х		
6.	Sample(s) received with signed	sample custody	seal.						х	
7.	Sample containers arrived intact	. (If no comment	:).					Х		
	Matrix Water Soil L	iquid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.	•						-		-	4
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Received by : AOballe

Check in by/date : AOballe / 04/05/2021

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ATTACHMENT 8 NONCONFORMANCE/CORRECTIVE ACTION REPORT

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CAR USA# 395 ALS LABORATORY GROUP NONCONFORMANCE/CORRECTIVE ACTION REPORT (NC/CAR)

(SIDE 1)

IH [x] ENV [] Asbestos []	Submitted by: Tracey Earle
(Print name) Work Order (s): <u>21030347, 21030712, 21031181, 2103</u>	0851 Method: 40CFR50 Appendices B and J
Samples:	Matrix/Media: Air Filters
Date Initiated: 4/28/21	Date of Occurrence: <u>3/12/21 (earliest occurrence)</u>
DESCRIBE NONCONFORMANCE (PROBLEM): Our client, Gilbane, contacted Stella, their ALS Project sytematically higher than the TSP for all sample pairs.	Manager, because their PM10 analyses was They had performed troubleshooting of their field ment and found no issues. They requested that the lab
REVIEWER/MANAGER COMMENTS:	
CORRECTIVE ACTION REQUIRED? [] YES [] NO If yes, go to side :	2 of this form.
Signature: Date:	05/04/21
QA REVIEW AND APPROVAL	QA COMMENTS
THE AFFECTED ANALYTICAL DATA ARE: [] USABLE [] USABLE (FLAGGED) *SEE COMMENT [] NOT USABLE *SEE COMMENT CORRECTIVE ACTION REQUIRED? [] YES [] NO Reviewed by QA:	DATE: <u>5-4-2</u> P-QA-NC/CAR

CORRECTIVE ACTION REPORT

(SIDE TWO)

If corrective action is required, complete this side of form also. See other side for details of nonconformance.

CTION TAKEN The QA Manager reviewed the tempera	HOW WAS ROOT CAUSE DETERMINED (INVESTIGATION)? The QA Manager reviewed the temperature and humidity readings in the Dust Lab. She also talked with the Section Manager and Lab Director.	
echnical irector/Designee omments:		
WHY DID THE PROBLEM OCCUR (ROOT CAUSE)? This is a multifaceted issue. The temperature and humidity acceptance limits are 17-23C and 40- 60% respectively. It was found that some of the humidity readings were 33.5% which is out of compliance on some of the preweights for PM10 and TSP for these three work orders. There were a few humidity readings of 33.1% on some of the PM10 and TSP sample final weights. The balance, which is checked before weighing, was in the acceptable limits.		
WHAT CORRECTIVE ACTION WAS IMPLEMENTED? We received a quote for a new balance since the current balance fluctuates when using the hanging apparatus. We will choose and purchase one of them that best meets our needs.		
The HVAC was checked to see if we can control the temperature and humidity in the Dust lab. They will send a quote to remove the current blowers and install an individual room unit with a thermostat.		
Corrective Action has been (will be) completed on:		
EVIDENCE OF CORRECTIVE ACTION RESOLU	EVIDENCE OF CORRECTIVE ACTION RESOLUTION AND NON-RECURRENCE:	
When complete, Manager:		
Date:		
A REVIEW AND APPROVAL	QA COMMENTS:	
CORRECTIVE ACTION ACCEPTABLE		
Reviewed by QA: 12 5-9-20 Initials Date		
Corrective Action has been (will be) completed on:		