



**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

January 1st, 2021 through January 31st, 2021

Approved for public release; distribution is unlimited

DCN: GLBN-0005-4332-0056



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**HUNTERS POINT NAVAL SHIPYARD, SAN
FRANCISCO, CALIFORNIA**

January 1st, 2021 through January 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**

Prepared by:



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

**Contract Number: N62473-17-D-0005; Task Order No. N6247317F4332
DCN: GLBN-0005-4332-0056**

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Acronyms and Abbreviations

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

1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by Gilbane Federal (Gilbane) as requested by the United States Department of the Navy (Navy) under Radiological Environmental Multiple Award Contract N62473-17-D-0005, Contract Task Order (CTO) N6247317F4332. Gilbane is performing air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Final Dust Monitoring and Control Plan (DMCP), included as Appendix E to *Final Remedial Action Work Plan, Parcel E Remedial Action Phase 2, Hunters Point Naval Shipyard, San Francisco, California* (RAWP; Gilbane, 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 January 1st, 2021 through January 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 (KCSANFR994) 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

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.

Table 4-1: Air Monitoring Threshold Criteria

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 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 Concentration Values	Occupational and public air concentration limits for ROCs are published in 10 Code of Federal Regulations Part 20, Appendix B.

Notes:

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

ug/m³ = 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 January 19th to January 28th, 2021, during which Gilbane was drilling, grading, installing road in preparation for the turbidity curtain, laying out fence, and hammering concrete/rock 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 run on January 1st through January 14th, 2021 as the site was closed, and on January 18th and January 21st, 2021 as there were no earth moving activities.

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

Asbestos results from January 1st through January 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 January 1st through January 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 January 1st through January 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 January 1st through January 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 were subjected to cursory review by the Project Chemist. No data quality issues were noted with the following exception:

- The chains-of-custody for SDGs 21020119, 21011621, and 21012014 state that custody seals were present on the container used to ship the samples. However, the sample receipt log state no custody seals were present.
- When contacted, the laboratory stated that the sample receipt staff had been directed to use the check box for coolers only and that going forward, a statement clarify the discrepancy would be provided in the report case narrative.

Analytical laboratory reports are included as Attachment 7.

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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Parcel E
Hunters Point Naval Shipyard
San Francisco, California

Figure 2-1
Air Monitoring Stations

ATTACHMENTS

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ATTACHMENT 1

AMBIENT PRESSURE AND TEMPERATURE MONITORING RESULTS

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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
1/20/2021	30.07	57.14	NW
1/26/2021	29.92	46.19	SE
1/27/2021	29.85	48.47	SE
1/28/2021	29.77	49.82	ESE

Notes:

Data collected using wunderground.com from Hunters Point Station - KCASANSFR994.

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2

ASBESTOS MONITORING RESULTS

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



Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date ¹	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm ³)	Exceedance (Yes/No)
MSE01-011921	01/19/21	1	580	1160	10.0	0.004	No
MSE02-011921	01/19/21	2	508	1016	8.5	0.004	No
MSE01-012521	01/25/21	1	681	1362	12.5	0.005	No
MSE02-012521	01/25/21	2	622	1244	10.5	0.004	No
MSE01-012621	01/26/21	1	517	1034	9.0	0.004	No
MSE02-012621	01/26/21	2	501	1002	11.0	0.005	No
MSE01-012721	01/27/21	1	330	660	11.0	0.008	No
MSE02-012721	01/27/21	2	345	690	10.5	0.007	No
MSE01-012821	01/28/21	1	350	700	8.0	0.006	No
MSE02-012821	01/28/21	2	339	678	7.5	0.005	No

Notes:

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

min = minutes

L = liter

fibers/cm³ = fibers per cubic centimeter

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ATTACHMENT 3

PM10 MONITORING RESULTS

Sample, Date and Station Information			Sampler Run Information	PM10s							
Sample ID	Monitoring Station	Sample Start Date ¹	Total Air Volume Monitored (m ³)	Total Mass (mg)	Concentration in Air (mg/m ³)	Delta between Downwind and Upwind (mg/m ³)	Delta between Downwind and Upwind (ug/m ³)	Cal/OSHA PEL (ug/m ³)	Exceedance (Yes/No)	HERO Action Level ² (ug/m ³)	Exceedance (Yes/No)
Q0374014-MSE01	1	1/20/21	1792.46	73	0.041				No		No
Q0374015-MSE02	2	1/20/21	1576.32	59	0.038	-0.003	-3.0	5,000	No	50	No
Q0374016-MSE01	1	1/26/21	1680.79	27	0.016				No		No
Q0374017-MSE02	2	1/26/21	1625.07	21	0.013	0.003	3.0	5,000	No	50	No
Q0374018-MSE01	1	1/27/21	1762.39	32	0.018				No		No
Q0374019-MSE02	2	1/27/21	809.81	19	0.023	-0.005	-5.0	5,000	No	50	No
Q0374021-MSE01	1	1/28/21	1584.98	23	0.014				No		No
Q0374020-MSE02	2	1/28/21	1559.99	10	0.0065	0.008	7.5	5,000	No	50	No
Q0374022-MSE01	1	1/28/21	408.52	2	0.005				No		No
Q0374023-MSE02	2	1/28/21	373.86	2	0.0053	0.000	-0.3	5,000	No	50	No

Notes:

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

²PM10 data is additionally compared to the recommended dust action level of 50 ug/m³ for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

DTSC = Department of Toxic Substances Control

m³ = cubic meters

mg = milligrams

mg/m³ = milligrams per cubic meter

PM₁₀-particulate matter smaller than 10 microns in diameter

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ATTACHMENT 4

TSP MONITORING RESULTS

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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 Start Date ¹	Total Air Volume Monitored (m ³)	Total Mass (mg)	Concentration in Air (mg/m ³)	Delta between Downwind and Upwind (mg/m ³)	Basewide HPNS Level (mg/m ³)	Exceedance (Yes/No)
9764101-MSE01	1	1/20/21	1538.04	87	0.056			No
9764102-MSE02	2	1/20/21	1694.82	100	0.061	0.005	0.5	No
9764103-MSE01	1	1/26/21	1694.37	43	0.025			No
9764104-MSE02	2	1/26/21	1596.17	29	0.018	0.007	0.5	No
9764105-MSE01	1	1/27/21	1764.57	62	0.035			No
9764106-MSE02	2	1/27/21	826.69	22	0.026	0.009	0.5	No
9764107-MSE01	1	1/28/21	1647.20	17	0.01			No
9764108-MSE02	2	1/28/21	1533.38	19	0.012	-0.002	0.5	No
9764109-MSE01	1	1/28/21	424.98	15	0.035			No
9764110-MSE02	2	1/28/21	316.93	4.5	0.014	0.021	0.5	No

Notes:

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

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

m³ = cubic meters

NA = not applicable

ug = micrograms

ATTACHMENT 5
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 Start Date ¹	Total Air Volume Monitored (m ³)	Result (ug)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Result (ug)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Result (ug)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)
9764101-MSE01	1	1/20/21	1538.04	710	0.00046	No	ND	<0.000016	No	80	0.000052	No
9764102-MSE02	2	1/20/21	1694.82	610	0.00036	No	ND	<0.000015	No	71	0.000042	No
9764103-MSE01	1	1/26/21	1694.37	210	0.00012	No	ND	<0.000015	No	ND	<0.000059	No
9764104-MSE02	2	1/26/21	1596.17	230	0.00015	No	ND	<0.000016	No	ND	<0.000063	No
9764105-MSE01	1	1/27/21	1764.57	140	0.000077	No	ND	<0.000014	No	ND	<0.000057	No
9764106-MSE02	2	1/27/21	826.69	150	0.00018	No	ND	<0.000030	No	ND	<0.000012	No
9764107-MSE01	1	1/28/21	1647.20	84	0.000051	No	ND	<0.000015	No	ND	<0.000015	No
9764108-MSE02	2	1/28/21	1533.38	230	0.00015	No	ND	<0.000016	No	ND	<0.000065	No
9764109-MSE01	1	1/28/21	424.98	ND	<0.00024	No	ND	<0.000059	No	ND	<0.00024	No
9764110-MSE02	2	1/28/21	316.93	ND	<0.00032	No	ND	<0.000079	No	ND	<0.00032	No

Notes:
¹Air sample was not collected on days with rain or when contaminated soil was not disturbed.
 Samples analyzed by ALS Environmental
 Sample locations are shown on Figure 2-1
 mg = milligrams
 mg/m³ = milligrams per cubic meter
 < = below detection limit
 m³ = cubic meters
 ug = micrograms

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ATTACHMENT 6
RADIOLOGICAL AIR MONITORING RESULTS



AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information									Effluent Air Concentration			Sampling Period				Color Codes						
Contract / Task Order Number: N62473-17-D-0005 / F4332			Project Title / Location: Parcel E RA HPNS, SF, CA			Gilbane Project Number: J310000400				Alpha	Beta	Air samples collected between January 1, 2021 and January 31, 2021				Value < MDC		Value < 0.1 x Effluent Conc				
Information effective as of: 2/18/2021									Radionuclide	Ra-226	Sr-90					< 72 hr decay time		Value > 0.1 x Effluent Conc				
									Effluent Conc (µCi/ml)	9.E-13	6.E-12	Data reviewed				Value > Effluent Conc						
Sample Collection									Count Information				Sample Results				Initials					
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0073	Perimeter	MSE02	PE05	40	1/19/21 8:30	1/19/21 14:15	345	1.4E+07	C	2/2/21	1	cpm	0.200	3.300	0.6	6.0	1.8E-14	1.9E-13	2.0%	3.2%	DVT	CB
AS-0074	Perimeter	MSE01	PE06	40	1/19/21 7:55	1/19/21 14:25	390	1.6E+07	C	2/2/21	1	cpm	0.100	2.850	0.3	4.7	8.1E-15	1.4E-13	0.9%	2.3%	DVT	CB
AS-0075	Perimeter	MSE02	PE05	60	1/25/21 8:19	1/25/21 15:15	416	2.5E+07	C	2/2/21	1	cpm	0.200	2.700	0.6	4.3	1.0E-14	7.7E-14	1.1%	1.3%	DVT	CB
AS-0076	Perimeter	MSE01	PE06	40	1/25/21 8:40	1/25/21 15:00	380	1.5E+07	C	2/2/21	1	cpm	0.050	2.650	0.1	4.1	4.2E-15	1.2E-13	0.5%	2.0%	DVT	CB
AS-0077	Perimeter	MSE02	PE05	60	1/26/21 7:00	1/26/21 13:35	395	2.4E+07	C	2/2/21	1	cpm	0.150	3.800	0.4	7.4	8.0E-15	1.4E-13	0.9%	2.3%	DVT	CB
AS-0078	Perimeter	MSE01	PE06	40	1/26/21 6:55	1/26/21 13:30	395	1.6E+07	C	2/2/21	1	cpm	0.250	3.100	0.7	5.4	2.0E-14	1.5E-13	2.2%	2.6%	DVT	CB
AS-0079	Perimeter	MSE02	PE05	60	1/27/21 9:10	1/27/21 14:48	338	2.0E+07	C	2/2/21	1	cpm	0.150	3.850	0.4	7.5	9.4E-15	1.7E-13	1.0%	2.8%	DVT	CB
AS-0080	Perimeter	MSE01	PE06	40	1/27/21 9:05	1/27/21 14:55	350	1.4E+07	C	2/2/21	1	cpm	0.200	3.850	0.6	7.5	1.8E-14	2.4E-13	2.0%	4.0%	DVT	CB
AS-0081	Perimeter	MSE02	PE05	60	1/28/21 6:50	1/28/21 13:45	415	2.5E+07	C	2/2/21	1	cpm	0.050	4.200	0.1	8.5	2.5E-15	1.5E-13	0.3%	2.6%	DVT	CB
AS-0082	Perimeter	MSE01	PE06	40	1/28/21 6:45	1/28/21 13:30	405	1.6E+07	C	2/2/21	1	cpm	0.100	3.650	0.3	7.0	7.8E-15	1.9E-13	0.9%	3.2%	DVT	CB

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ATTACHMENT 7

LABORATORY REPORTS

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09-Feb-2021

[REDACTED]

Gilbane Company

[REDACTED]

[REDACTED]

Re: **HPNS Parcel E RA Phase 2; J310000400**

Work Order: **21010739**

Dear [REDACTED]

ALS Environmental received 4 samples on 22-Jan-2021 10:00 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 10.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

[REDACTED]

Electronically approved by: Rob Nieman

[REDACTED]

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
Work Order: 21010739

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21010739-01	Q0374014-MSE01	Air		1/20/2021 07:45	1/22/2021 10:00	<input type="checkbox"/>
21010739-02	9764101-MSE01	Air		1/20/2021 07:45	1/22/2021 10:00	<input type="checkbox"/>
21010739-03	Q0374015-MSE02	Air		1/20/2021 08:00	1/22/2021 10:00	<input type="checkbox"/>
21010739-04	9764102-MSE02	Air		1/20/2021 08:00	1/22/2021 10:00	<input type="checkbox"/>

Client: Gilbane Company
Project: HPNS Parcel E RA Phase 2; J310000400
Work Order: 21010739

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.

This report was revised as follows: Analyte list was updated.

Client: Gilbane Company
Project: HPNS Parcel E RA Phase 2; J310000400

Work Order: 21010739

Analytical Results

Lab ID: 21010739-01A
Client Sample ID: Q0374014-MSE01

Collection Date: 1/20/2021 7:45:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1792460	Analyst: SRL
Date Analyzed: 1/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	73	1.0	0.041	

Lab ID: 21010739-02A
Client Sample ID: 9764101-MSE01

Collection Date: 1/20/2021 7:45:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1538040	Analyst: SRL
Date Analyzed: 1/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	87	1.0	0.056	

METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1538040	Analyst: AZ
Date Analyzed: 1/29/2021 14:54		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	710	25	0.00046	
Lead	ND	25	<0.000016	
Manganese	80	25	0.000052	

Lab ID: 21010739-03A
Client Sample ID: Q0374015-MSE02

Collection Date: 1/20/2021 8:00:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1576320	Analyst: SRL
Date Analyzed: 1/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	59	1.0	0.038	

Note:

Client: Gilbane Company
Project: HPNS Parcel E RA Phase 2; J310000400

Work Order: 21010739

Analytical Results

Lab ID: 21010739-04A
Client Sample ID: 9764102-MSE02

Collection Date: 1/20/2021 8:00:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1694820	Analyst: SRL
Date Analyzed: 1/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	100	1.0	0.061	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1694820	Analyst: AZ
Date Analyzed: 1/29/2021 14:58		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	610	25	0.00036	
Lead	ND	25	<0.000015	
Manganese	71	25	0.000042	

Note:

ALS Environmental

Date: 09-Feb-21

Client: Gilbane Company

QC BATCH REPORT

Work Order: 21010739

Project: HPNS Parcel E RA Phase 2; J310000400

Batch ID: R187348

Instrument ID BAL2

Method: TSP

DUP		Sample ID: 21010739-02a dup				Units: mg/sample		Analysis Date: 1/29/2021		
Client ID: 9764101-MSE01		Run ID: BAL2_210129A				SeqNo: 2389767		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	88.62	1.0	0	0	0		86.59	2.32	20	

The following samples were analyzed in this batch:

21010739-02a	21010739-04a
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gilbane Company
 Work Order: 21010739
 Project: HPNS Parcel E RA Phase 2; J310000400

QC BATCH REPORT

Batch ID: 72434 Instrument ID ICP1 Method: E12

MBLK		Sample ID: MBLK-72434-72434			Units: µg/sample		Analysis Date: 1/29/2021 02:42 PM			
Client ID:		Run ID: ICP1_210129B			SeqNo: 2390558		Prep Date: 1/29/2021		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-72434-72434			Units: µg/sample		Analysis Date: 1/29/2021 02:46 PM			
Client ID:		Run ID: ICP1_210129B			SeqNo: 2390559		Prep Date: 1/29/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	388.7	100	450	0	86.4	75-125	0			
Lead	391.1	25	450	0	86.9	75-125	0			
Manganese	425	100	450	0	94.4	75-125	0			

LCSD		Sample ID: LCSD-72434-72434			Units: µg/sample		Analysis Date: 1/29/2021 02:50 PM			
Client ID:		Run ID: ICP1_210129B			SeqNo: 2390560		Prep Date: 1/29/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	375.6	100	450	0	83.5	75-125	388.7	3.43	20	
Lead	381.5	25	450	0	84.8	75-125	391.1	2.5	20	
Manganese	417.9	100	450	0	92.9	75-125	425	1.7	20	

MS		Sample ID: 21010739-04A MS			Units: µg/sample		Analysis Date: 1/29/2021 03:02 PM			
Client ID: 9764102-MSE02		Run ID: ICP1_210129B			SeqNo: 2390563		Prep Date: 1/29/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	1038	100	450	609.8	95.1	75-125	0			
Lead	405.2	25	450	4.343	89.1	75-125	0			
Manganese	511.6	100	450	70.88	98	75-125	0			

MSD		Sample ID: 21010739-04A MSD			Units: µg/sample		Analysis Date: 1/29/2021 03:05 PM			
Client ID: 9764102-MSE02		Run ID: ICP1_210129B			SeqNo: 2390564		Prep Date: 1/29/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	1029	100	450	609.8	93.2	75-125	1038	0.827	20	
Lead	404.4	25	450	4.343	88.9	75-125	405.2	0.2	20	
Manganese	524.7	100	450	70.88	101	75-125	511.6	2.52	20	

The following samples were analyzed in this batch: 21010739-02A 21010739-04A

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

Client: Gilbane Company
Project: HPNS Parcel E RA Phase 2; J310000400
WorkOrder: 21010739

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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 limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	



Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK

Date/Time Received: 22-Jan-21 10:00

Work Order: 21010739

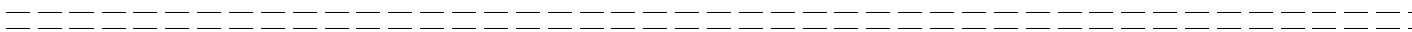
Received by: SNH

Checklist completed by: 	22-Jan-21	Reviewed by: 	25-Jan-21
eSignature	Date	eSignature	Date

Matrices: air
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	

Comments:

CorrectiveAction:

**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT-012021



21010739

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: ALS Laboratory Group, Cincinnati, OH	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400	Ship to: [Redacted]	

Comments:	Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP										Code	Matrix
														A	Air
Equipment:														Code	Container/Preservative
														1	1x 250-mL Plastic, 4 Degrees C
														1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																Top	Bottom		
1	Q0374014-MSE01	A	01/20/2021	0745	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1792.46
2	9764101-MSE01	A	01/20/2021	0745	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1538.04
3	Q0374015-MSE02	A	01/20/2021	0800	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1576.32
4	9764102-MSE02	A	01/20/2021	0800	KT		X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1694.82

Turnaround Time: 5 Day

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/21/21	1400	[Redacted]	1/21/21	1400	Shipping Date: 1/21/2021 Fedex 7726 9125 9670
			[Redacted]	1-22-21	1000	Received by Laboratory: (Signature, Date, Time) & condition
						Fedex Custody Seal



04-Feb-2021

[REDACTED]
Gilbane Company
[REDACTED]
[REDACTED]

Re: **J310000400; Parcel E RA Phase 2**

Work Order: **21010998**

Dear [REDACTED]

ALS Environmental received 8 samples on 28-Jan-2021 10:41 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 12.

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

Sincerely,

[REDACTED]

Electronically approved by: Rob Nieman

[REDACTED]

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: J310000400; Parcel E RA Phase 2
Work Order: 21010998

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21010998-01	Q0374016-MSE01	Air		1/26/2021 08:00	1/28/2021	<input type="checkbox"/>
21010998-02	9764103-MSE01	Air		1/26/2021 08:00	1/28/2021	<input type="checkbox"/>
21010998-03	Q0374017-MSE02	Air		1/26/2021 08:30	1/28/2021	<input type="checkbox"/>
21010998-04	9764104-MSE02	Air		1/26/2021 08:30	1/28/2021	<input type="checkbox"/>
21010998-05	Q0374018-MSE01	Air		1/27/2021 08:14	1/28/2021	<input type="checkbox"/>
21010998-06	9764105-MSE01	Air		1/27/2021 08:14	1/28/2021	<input type="checkbox"/>
21010998-07	Q0374019-MSE02	Air		1/27/2021 09:00	1/28/2021	<input type="checkbox"/>
21010998-08	9764106-MSE02	Air		1/27/2021 09:00	1/28/2021	<input type="checkbox"/>

Client: Gilbane Company
Project: J310000400; Parcel E RA Phase 2
Work Order: 21010998

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.

Client: Gilbane Company
Project: J310000400; Parcel E RA Phase 2

Work Order: 21010998

Analytical Results

Lab ID: 21010998-01A
Client Sample ID: Q0374016-MSE01

Collection Date: 1/26/2021 8:00:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1680790	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	27	1.0	0.016	

Lab ID: 21010998-02A
Client Sample ID: 9764103-MSE01

Collection Date: 1/26/2021 8:00:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1694370	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	43	1.0	0.025	

METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1694370	Analyst: AZ
Date Analyzed: 2/4/2021 12:33		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	210	100	0.00012	
Lead	ND	25	<0.000015	
Manganese	ND	100	<0.000059	

Lab ID: 21010998-03A
Client Sample ID: Q0374017-MSE02

Collection Date: 1/26/2021 8:30:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1625070	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	21	1.0	0.013	

Note:

ALS Environmental

Date: 04-Feb-21

Client: Gilbane Company
Project: J310000400; Parcel E RA Phase 2

Work Order: 21010998

Analytical Results

Lab ID: 21010998-04A
Client Sample ID: 9764104-MSE02

Collection Date: 1/26/2021 8:30:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1596170	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	29	1.0	0.018	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1596170	Analyst: AZ
Date Analyzed: 2/4/2021 12:45		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	230	100	0.00015	
Lead	ND	25	<0.000016	
Manganese	ND	100	<0.000063	

Lab ID: 21010998-05A
Client Sample ID: Q0374018-MSE01

Collection Date: 1/27/2021 8:14:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1762390	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	32	1.0	0.018	

Lab ID: 21010998-06A
Client Sample ID: 9764105-MSE01

Collection Date: 1/27/2021 8:14:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1764570	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	62	1.0	0.035	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1764570	Analyst: AZ
Date Analyzed: 2/4/2021 12:49		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	140	100	0.000077	
Lead	ND	25	<0.000014	
Manganese	ND	100	<0.000057	

Note:

Client: Gilbane Company
Project: J310000400; Parcel E RA Phase 2

Work Order: 21010998

Analytical Results

Lab ID: 21010998-07A
Client Sample ID: Q0374019-MSE02

Collection Date: 1/27/2021 9:00:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 809810	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	19	1.0	0.023	

Lab ID: 21010998-08A
Client Sample ID: 9764106-MSE02

Collection Date: 1/27/2021 9:00:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 826690	Analyst: SRL
Date Analyzed: 2/3/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	22	1.0	0.026	

METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 826690	Analyst: AZ
Date Analyzed: 2/4/2021 12:53		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	150	100	0.00018	
Lead	ND	25	<0.000030	
Manganese	ND	100	<0.00012	

Note:

ALS Environmental

Date: 04-Feb-21

Client: Gilbane Company
Work Order: 21010998
Project: J310000400; Parcel E RA Phase 2

QC BATCH REPORT

Batch ID: **R187481** Instrument ID **BAL2** Method: **TSP**

DUP		Sample ID: 21010998-02A DUP				Units: mg/sample		Analysis Date: 2/3/2021		
Client ID: 9764103-MSE01		Run ID: BAL2_210203A				SeqNo: 2392629		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	42.81	1.0	0	0	0		42.66	0.351	20	

The following samples were analyzed in this batch:

21010998-02A	21010998-04A	21010998-06A
21010998-08A		

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

Client: Gilbane Company
Work Order: 21010998
Project: J310000400; Parcel E RA Phase 2

QC BATCH REPORT

Batch ID: **R187483** Instrument ID **BAL2** Method: **PM10**

DUP		Sample ID: 21010998-07A DUP				Units: mg/sample		Analysis Date: 2/3/2021		
Client ID: Q0374019-MSE02		Run ID: BAL2_210203B		SeqNo: 2392651		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	18.51	1.0	0	0	0		18.72	1.13	20	

The following samples were analyzed in this batch:

21010998-01A	21010998-03A	21010998-05A
21010998-07A		

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

Client: Gilbane Company
 Work Order: 21010998
 Project: J310000400; Parcel E RA Phase 2

QC BATCH REPORT

Batch ID: 72513 Instrument ID ICP1 Method: E12

MBLK		Sample ID: MBLK-72513-72513				Units: µg/sample		Analysis Date: 2/4/2021 12:13 PM		
Client ID:		Run ID: ICP1_210204A				SeqNo: 2393175		Prep Date: 2/4/2021		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-72513-72513				Units: µg/sample		Analysis Date: 2/4/2021 12:17 PM		
Client ID:		Run ID: ICP1_210204A				SeqNo: 2393176		Prep Date: 2/4/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	417.5	100	450	0	92.8	75-125	0			
Lead	419.9	25	450	0	93.3	75-125	0			
Manganese	437.1	100	450	0	97.1	75-125	0			

LCSD		Sample ID: LCSD-72513-72513				Units: µg/sample		Analysis Date: 2/4/2021 12:21 PM		
Client ID:		Run ID: ICP1_210204A				SeqNo: 2393177		Prep Date: 2/4/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	425.2	100	450	0	94.5	75-125	417.5	1.83	20	
Lead	423.2	25	450	0	94	75-125	419.9	0.779	20	
Manganese	448.4	100	450	0	99.6	75-125	437.1	2.54	20	

MS		Sample ID: 21010998-02A MS				Units: µg/sample		Analysis Date: 2/4/2021 12:37 PM		
Client ID: 9764103-MSE01		Run ID: ICP1_210204A				SeqNo: 2393179		Prep Date: 2/4/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	641.2	100	450	209.6	95.9	75-125	0			
Lead	454.5	25	450	24.01	95.7	75-125	0			
Manganese	455.8	100	450	15.93	97.8	75-125	0			

MSD		Sample ID: 21010998-02A MSD				Units: µg/sample		Analysis Date: 2/4/2021 12:41 PM		
Client ID: 9764103-MSE01		Run ID: ICP1_210204A				SeqNo: 2393180		Prep Date: 2/4/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	647.6	100	450	209.6	97.3	75-125	641.2	0.978	20	
Lead	451.4	25	450	24.01	95	75-125	454.5	0.695	20	
Manganese	438.6	100	450	15.93	93.9	75-125	455.8	3.85	20	

The following samples were analyzed in this batch:

21010998-02A	21010998-04A	21010998-06A
21010998-08A		

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

Client: Gilbane Company
Project: J310000400; Parcel E RA Phase 2
WorkOrder: 21010998

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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 limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	



Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK

Date/Time Received: 28-Jan-21 10:41

Work Order: 21010998

Received by: DNS

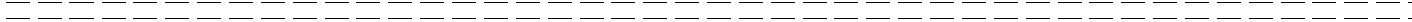
Checklist completed by		28-Jan-21	Reviewed by:		02-Feb-21
	eSignature	Date		eSignature	Date

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



10-Mar-2021

[REDACTED]
Gilbane Company
[REDACTED]
[REDACTED]

Re: **HPNS Parcel E-2; J310000400**

Work Order: **21020054**

Dear [REDACTED]

ALS Environmental received 8 samples on 02-Feb-2021 10:50 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,

[REDACTED]

Electronically approved by: Rob Nieman

[REDACTED]

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: 21020054

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21020054-01	Q0374021-MSE01	Air		1/28/2021 07:52	2/2/2021	<input type="checkbox"/>
21020054-02	9764107-MSE01	Air		1/28/2021 07:52	2/2/2021	<input type="checkbox"/>
21020054-03	Q0374020-MSE02	Air		1/28/2021 08:05	2/2/2021	<input type="checkbox"/>
21020054-04	9764108-MSE02	Air		1/28/2021 08:05	2/2/2021	<input type="checkbox"/>
21020054-05	Q0374022-MSE01	Air		1/28/2021 13:30	2/2/2021	<input type="checkbox"/>
21020054-06	9764109-MSE01	Air	1/28/21	1/28/2021 13:30	2/2/2021	<input type="checkbox"/>
21020054-07	Q0374023-MSE02	Air		1/28/2021 13:45	2/2/2021	<input type="checkbox"/>
21020054-08	9764110-MSE02	Air		1/28/2021 13:45	2/2/2021	<input type="checkbox"/>

Client: Gilbane Company
Project: HPNS Parcel E-2; J310000400
Work Order: 21020054

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.

ALS Environmental

Date: 10-Mar-21

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

Work Order: 21020054**Analytical Results**

Lab ID: 21020054-01A
Client Sample ID: Q0374021-MSE01

Collection Date: 1/28/2021 7:52:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1584980	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	23	1.0	0.014	

Lab ID: 21020054-02A
Client Sample ID: 9764107-MSE01

Collection Date: 1/28/2021 7:52:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1647200	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	17	1.0	0.010	

METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1647200	Analyst: AZ
Date Analyzed: 2/9/2021 12:34		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	84	25	0.000051	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

Lab ID: 21020054-03A
Client Sample ID: Q0374020-MSE02

Collection Date: 1/28/2021 8:05:00 AM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 1559990	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	10	1.0	0.0065	

Note:

ALS Environmental

Date: 10-Mar-21

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

Work Order: 21020054

Analytical Results

Lab ID: 21020054-04A
Client Sample ID: 9764108-MSE02

Collection Date: 1/28/2021 8:05:00 AM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 1533380	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	19	1.0	0.012	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 1533380	Analyst: AZ
Date Analyzed: 2/9/2021 12:38		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	230	100	0.00015	
Lead	ND	25	<0.000016	
Manganese	ND	100	<0.000065	

Lab ID: 21020054-05A
Client Sample ID: Q0374022-MSE01

Collection Date: 1/28/2021 1:30:00 PM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 408520	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	2.0	1.0	0.0050	

Lab ID: 21020054-06A
Client Sample ID: 9764109-MSE01

Collection Date: 1/28/2021 1:30:00 PM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 424980	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	15	1.0	0.035	
METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 424980	Analyst: AZ
Date Analyzed: 2/9/2021 12:43		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	ND	100	<0.00024	
Lead	ND	25	<0.000059	
Manganese	ND	100	<0.00024	

Note:

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

Work Order: 21020054

Analytical Results

Lab ID: 21020054-07A
Client Sample ID: Q0374023-MSE02

Collection Date: 1/28/2021 1:45:00 PM
Matrix: AIR

Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 373860	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	2.0	1.0	0.0053	

Lab ID: 21020054-08A
Client Sample ID: 9764110-MSE02

Collection Date: 1/28/2021 1:45:00 PM
Matrix: AIR

Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 316930	Analyst: SRL
Date Analyzed: 2/8/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	4.5	1.0	0.014	

METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 316930	Analyst: AZ
Date Analyzed: 2/9/2021 12:47		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	ND	100	<0.00032	
Lead	ND	25	<0.000079	
Manganese	ND	100	<0.00032	

Note:

ALS Environmental

Date: 10-Mar-21

Client: Gilbane Company
Work Order: 21020054
Project: HPNS Parcel E-2; J310000400

QC BATCH REPORT

Batch ID: **R187593** Instrument ID **BAL2** Method: **TSP**

DUP		Sample ID: 21020054-02A DUP				Units: mg/sample		Analysis Date: 2/8/2021		
Client ID: 9764107-MSE01		Run ID: BAL2_210208A				SeqNo: 2395145		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	16.91	1.0	0	0	0		16.51	2.39	20	

The following samples were analyzed in this batch:

21020054-02A	21020054-04A	21020054-06A
21020054-08A		

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

Client: Gilbane Company
Work Order: 21020054
Project: HPNS Parcel E-2; J310000400

QC BATCH REPORT

Batch ID: **R187605** Instrument ID **BAL2** Method: **PM10**

DUP		Sample ID: 21020054-07A DUP				Units: mg/sample		Analysis Date: 2/8/2021		
Client ID: Q0374023-MSE02		Run ID: BAL2_210208B		SeqNo: 2395314		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	2.35	1.0	0	0	0		2	16.1	20	

The following samples were analyzed in this batch:

21020054-01A	21020054-03A	21020054-05A
21020054-07A		

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

Client: Gilbane Company
 Work Order: 21020054
 Project: HPNS Parcel E-2; J310000400

QC BATCH REPORT

Batch ID: **72580** Instrument ID **ICP3** Method: **E12**

MBLK		Sample ID: MBLK-72580-72580				Units: µg/sample		Analysis Date: 2/9/2021 12:22 PM		
Client ID:		Run ID: ICP3_210209A				SeqNo: 2395796		Prep Date: 2/9/2021		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-72580-72580				Units: µg/sample		Analysis Date: 2/9/2021 12:26 PM		
Client ID:		Run ID: ICP3_210209A				SeqNo: 2395797		Prep Date: 2/9/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	450.9	100	450	0	100	75-125	0			
Lead	440.2	25	450	0	97.8	75-125	0			
Manganese	432.6	100	450	0	96.1	75-125	0			

LCSD		Sample ID: LCSD-72580-72580				Units: µg/sample		Analysis Date: 2/9/2021 12:30 PM		
Client ID:		Run ID: ICP3_210209A				SeqNo: 2395798		Prep Date: 2/9/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	447.7	100	450	0	99.5	75-125	450.9	0.711	20	
Lead	441.4	25	450	0	98.1	75-125	440.2	0.286	20	
Manganese	428	100	450	0	95.1	75-125	432.6	1.07	20	

MS		Sample ID: 21020054-08A MS				Units: µg/sample		Analysis Date: 2/9/2021 12:51 PM		
Client ID: 9764110-MSE02		Run ID: ICP3_210209A				SeqNo: 2395803		Prep Date: 2/9/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	429.9	100	450	37.8	87.1	75-125	0			
Lead	387.9	25	450	0.1012	86.2	75-125	0			
Manganese	380.6	100	450	2.228	84.1	75-125	0			

MSD		Sample ID: 21020054-08A MSD				Units: µg/sample		Analysis Date: 2/9/2021 12:55 PM		
Client ID: 9764110-MSE02		Run ID: ICP3_210209A				SeqNo: 2395804		Prep Date: 2/9/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	419.5	100	450	37.8	84.8	75-125	429.9	2.44	20	
Lead	383.8	25	450	0.1012	85.3	75-125	387.9	1.07	20	
Manganese	374.4	100	450	2.228	82.7	75-125	380.6	1.65	20	

The following samples were analyzed in this batch:

21020054-02A	21020054-04A	21020054-06A
21020054-08A		

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

Client: Gilbane Company
Project: HPNS Parcel E-2; J310000400
WorkOrder: 21020054

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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 limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK

Date/Time Received: 02-Feb-21 10:50

Work Order: 21020054

Received by: RDN

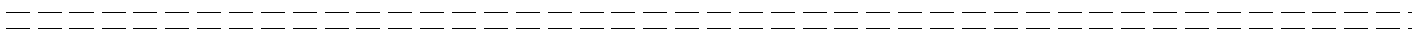
Checklist completed by: [Redacted] 02-Feb-21 Date | Reviewed by: [Redacted] 04-Feb-21 Date
eSignature | Date | eSignature | Date

Matrices:

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
- 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):
- Cooler(s)/Kit(s):
- Date/Time sample(s) sent to storage:
- 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
- pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Laboratory Analysis Report

Job ID : 21011621



Client Project Name :

J310000400 / HPNS Parcel E

Report To : Client Name: Gilbane
Attn: [REDACTED]
Client Address: [REDACTED]
City, State, Zip: [REDACTED]

Total Number of Pages: 5
P.O.#. :
Date Received : 01/25/2021 09:30
Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-011921	1/19/2021	Cassette	21011621.01
MSE02-011921	1/19/2021	Cassette	21011621.02



Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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

02/01/2021



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

Date 2/1/2021

Job ID : 21011621
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane		Project: J310000400 / HPNS Parcel E										Attn: [REDACTED]			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21011621.01	MSE01-011921	01/19/2021	Area	2			580	1160	100	10.0	12.739	0.004		02/01/21	[REDACTED]
21011621.02	MSE02-011921	01/19/2021	Area	2			508	1016	100	8.5	10.828	0.004		02/01/21	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 21011621	Date Received : 01/25/2021	Time Received : 9:30AM
Client Name : Gilbane		
Temperature : 24.1°C	Sample pH : NA	
Thermometer ID : 102002320	pH Paper ID : NA	
Perservative :		

	Check Points	Yes	No	N/A																								
1.	Cooler seal present and signed.	X																										
2.	Sample(s) in a cooler.			X																								
3.	If yes, ice in cooler.			X																								
4.	Sample(s) received with chain-of-custody.	X																										
5.	C-O-C signed and dated.	X																										
6.	Sample(s) received with signed sample custody seal.		X																									
7.	Sample containers arrived intact. (If no comment).	X																										
8.	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	X																										
10.	Sample(s) were received with proper preservative			X																								
11.	All samples were logged or labeled.	X																										
12.	Sample ID labels match C-O-C ID's	X																										
13.	Bottle count on C-O-C matches bottles found.	X																										
14.	Sample volume is sufficient for analyses requested.	X																										
15.	Samples were received within the hold time.	X																										
16.	VOA vials completely filled.			X																								
17.	Sample accepted.	X																										
18.	Has client been contacted about sub-out			X																								

Comments : Include actions taken to resolve discrepancies/problem:

Received in box with custody seal

Received by : ██████████

Check in by/date : AOballe / 01/25/2021

Phone : ██████████

██████████



Local Address:

Phase II RA

Project Name and Number: 3310000 400 HPNS Parcel E

Laboratory Name: ABS Labs

Address:

Contact Name: [Redacted]

Phone: [Redacted]

Date: 1/21/21

Page: 1 of 1

Chain-Of-Custody

Analysis:

Sample I.D.	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Preservative:	Container type:	Special Instructions/Comments
MSE01-011921 DIA	1/19/21	1430	NA MA	NA MA	1	AA X	1	GLW	Flow rate 2 L/min 580
MSE02-011921 USA	1/19/21	1438	NA MA	NA MA	1	AA X			Flow rate 2 L/min 508

Job ID: 21011621



AP

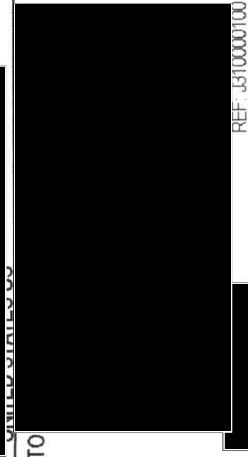
Sampled By:	Relinquished By/Affiliation:	Sampler:	Courier/Airbill No.:
[Redacted]	[Redacted]	[Redacted]	Felix 772697053354
Signature:	Date:	Time:	Received By/Affiliation:
[Redacted]	1/21/21	1400	Felix
Special Instruction:	Date:	Time:	
	1-25-21	930	Amanda
Send Results to: (w/fax #)	Date:	Time:	
[Redacted]	1-25-21	980	
Turnaround Time:			

ORIGIN ID: JCCA

SHIP DATE: 21 JAN 21
ACTWGT: 10.00 LB
CAD: 102700259/MINET4340
DIMS: 19x13x14 IN

BILL SENDER

TO

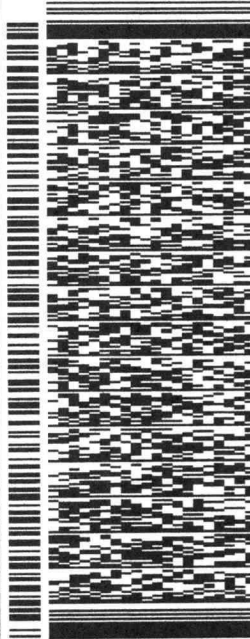


56DJM136/FE4A

REF: J510000100 B 00 07030000

INV: P.O. J510000400

DEPT:



J211121011901uv

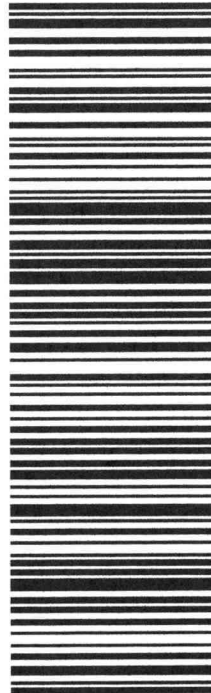
FRI - 22 JAN 4:30P
STANDARD OVERNIGHT

TRK# 7726 9705 3354

77029
IAH

TX-US

AB HBYA



Environment Testing TestAmerica
eurofins
1222790

Custody Seal

DATE

1/21/21

SIGNATURE

Corlba

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Laboratory Analysis Report

Job ID : 21012014



Client Project Name :

HPNS Parcel E Phase II J310000400

Report To : Client Name: Gilbane Total Number of Pages: 5
Attn: [REDACTED] P.O.#. :
Client Address: [REDACTED] Date Received : 01/28/2021 13:00
City, State, Zip: [REDACTED] Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-012521	1/25/2021	Cassette	21012014.01
MSE02-012521	1/25/2021	Cassette	21012014.02
MSE01-012621	1/26/2021	Cassette	21012014.03
MSE02-012621	1/26/2021	Cassette	21012014.04



Released By: [REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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

Date 2/2/2021

Job ID : 21012014
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21012014.01	MSE01-012521	01/25/2021	Area	2			681	1362	100	12.5	15.924	0.005		02/01/21	Habedi
21012014.02	MSE02-012521	01/25/2021	Area	2			622	1244	100	10.5	13.376	0.004		02/01/21	Habedi
21012014.03	MSE01-012621	01/26/2021	Area	2			517	1034	100	9.0	11.465	0.004		02/01/21	Habedi
21012014.04	MSE02-012621	01/26/2021	Area	2			501	1002	100	11.0	14.013	0.005		02/01/21	Habedi

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



Sample Condition Checklist

A&B JobID : 21012014	Date Received : 01/28/2021	Time Received : 1:00PM
Client Name : Gilbane		
Temperature : 16.8°C	Sample pH : n/a	
Thermometer ID : 102002320	pH Paper ID : n/a	
Perservative :		

	Check Points	Yes	No	N/A																								
1.	Cooler seal present and signed.	X																										
2.	Sample(s) in a cooler.		X																									
3.	If yes, ice in cooler.			X																								
4.	Sample(s) received with chain-of-custody.	X																										
5.	C-O-C signed and dated.	X																										
6.	Sample(s) received with signed sample custody seal.		X																									
7.	Sample containers arrived intact. (If no comment).	X																										
8.	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	X																										
10.	Sample(s) were received with proper preservative			X																								
11.	All samples were logged or labeled.	X																										
12.	Sample ID labels match C-O-C ID's	X																										
13.	Bottle count on C-O-C matches bottles found.	X																										
14.	Sample volume is sufficient for analyses requested.	X																										
15.	Samples were received within the hold time.	X																										
16.	VOA vials completely filled.			X																								
17.	Sample accepted.	X																										
18.	Has client been contacted about sub-out			X																								

Comments : Include actions taken to resolve discrepancies/problem:

Custody seal on box. -ANA 1-29-21.

Received by : ██████████

Check in by/date : ████████████████████

Phone : ██████████

██████████



Chain-Of-Custody

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

Laboratory Name: A&B Labs Date: 01/27/2021
 Address: [Redacted] Contact Name: [Redacted] Page: 1 of 1
 Phone: [Redacted]

Analysis:

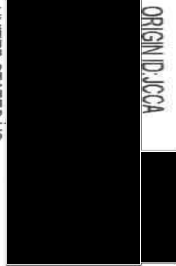
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos	Preservative:		Special Instructions/Comments
								None	Filter	
01A MSEO1-012521	1/25/21	1531	NA	NA	1	AA	X			Flow rate 2 L/min Time Total (min) 681
02A MSEO2-012521	1/25/21	1539	NA	NA	1	AA	X			2 L/min 622
03A MSEO1-012621	1/26/21	1332	NA	NA	1	AA	X			2 L/min 517
04A MSEO2-012621	1/26/21	1336	NA	NA	2	AA	X			2 L/min 501

Sampled By: [Redacted]
 Signature: [Signature]
 Special Instructions: None
 16.8°C 102002370
 Send Results to: kcarlyon@gilbaneco.com
kтом@gilbaneco.com
 Turnaround Time: Standard

Sampler: [Redacted]
 Relinquished By/ Affiliation: [Redacted]
 FedEx
 1-28-21 13:00pm

Courier/Airbill No.: FedEX/ 7727 5031 2519
 Received By/ Affiliation: [Redacted]
 Date: 1/27/21 Time: 1400
1300
 Date: 1-28-21 Time: 7pm

ORIGIN ID: JCCA



SHIP DATE: 27 JAN 21
ACTWGT: 10.00 LB
CAD: 102700259INNET4340
DIMS: 10x13x14 IN

BILL SENDER

UNITED STATES US

TO

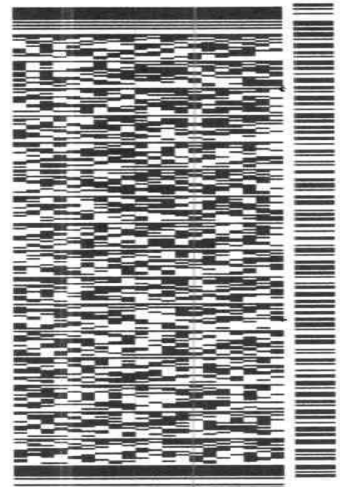


56DJ1/1136/FE4A

REF: J310000100B000703000

NV
PO: J310000400

DEPT



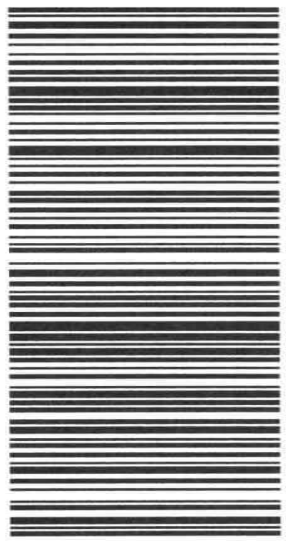
THU - 28 JAN 4:30P

STANDARD OVERNIGHT

TRK# 7727 5031 2519
0201

AB HBVA

77029
TX:US IAH



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

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

1/27/21
 Study Seal
 Gilbane
 URE

Laboratory Analysis Report

Job ID : 21020119



Client Project Name :
HPNS Parcel E RA Phase II J310000400

Report To : Client Name: Gilbane Total Number of Pages: 5
Attn: [Redacted] P.O.#. : J310000100-014
Client Address: [Redacted] Date Received : 02/02/2021 10:00
City, State, Zip: [Redacted] Sample Collected By : [Redacted]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-012721	1/27/2021	Cassette	21020119.01
MSE02-012721	1/27/2021	Cassette	21020119.02
MSE01-012821	1/28/2021	Cassette	21020119.03
MSE02-012821	1/28/2021	Cassette	21020119.04



Released By: [Redacted]
Title: Vice President Operations

Analyst: [Redacted]

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2/10/2021



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

Date 2/10/2021

Job ID : 21020119
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane		Project: HPNS Parcel E RA Phase II J310000400										Attn: [REDACTED]			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21020119.01	MSE01-012721	01/27/2021	Area	2	10:00	15:30	330	660	100	11.0	14.013	0.008		02/10/21	Habedi
21020119.02	MSE02-012721	01/27/2021	Area	2	09:50	15:35	345	690	100	10.5	13.376	0.007		02/10/21	Habedi
21020119.03	MSE01-012821	01/28/2021	Area	2	08:00	13:50	350	700	100	8.0	10.191	0.006		02/10/21	Habedi
21020119.04	MSE02-012821	01/28/2021	Area	2	08:14	13:53	339	678	100	7.5	9.554	0.005		02/10/21	Habedi

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



Sample Condition Checklist

A&B JobID : 21020119	Date Received : 02/02/2021	Time Received : 10:00AM																										
Client Name : Gilbane																												
Temperature : 14.6°C	Sample pH : na																											
Thermometer ID : 102002320	pH Paper ID : na																											
Perservative :																												
Check Points																												
1.	Cooler seal present and signed.	X																										
2.	Sample(s) in a cooler.		X																									
3.	If yes, ice in cooler.			X																								
4.	Sample(s) received with chain-of-custody.	X																										
5.	C-O-C signed and dated.	X																										
6.	Sample(s) received with signed sample custody seal.		X																									
7.	Sample containers arrived intact. (If no comment).	X																										
8.	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	X																										
10.	Sample(s) were received with proper preservative			X																								
11.	All samples were logged or labeled.	X																										
12.	Sample ID labels match C-O-C ID's	X																										
13.	Bottle count on C-O-C matches bottles found.	X																										
14.	Sample volume is sufficient for analyses requested.	X																										
15.	Samples were received within the hold time.	X																										
16.	VOA vials completely filled.			X																								
17.	Sample accepted.	X																										
18.	Has client been contacted about sub-out			X																								
Comments : Include actions taken to resolve discrepancies/problem:																												
Received in box with C/S. VH 02-02-21																												

Received by : ██████████

Check in by/date : ██████████

Phone : ██████████

██████████



Chain-Of-Custody

Project Name and Number: HPNS Parcel E: RA Phase II J310000400
 Project Manager: [Redacted]
 Site Location: [Redacted]

Laboratory: A&B Labs
 Address: [Redacted]

Contact Name: [Redacted]
 Phone: [Redacted]

Date: 2/01/2021
 Page: 1 of 1

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Preservative:	Container Type:	Analysis:	Special Instructions/Comments
MSE01-012721	01/27/21	1530	N/A	N/A	1	AA	None	X		OIA 1060 1530 330
MSE02-012721	01/27/21	1535	N/A	N/A	1	AA	X			O2A 0950 1535 345
MSE01-012821	01/28/21	1350	N/A	N/A	1	AA	X			O3A 0800 1350 350
MSE02-012821	01/28/21	1353	N/A	N/A	1	AA	X			O4A 0814 1353 367

Flow rate
 2 L/min

Job ID: 21020119

11.10.C
 10200320

Sampled By: [Redacted]

Signature: [Redacted]

Special Instructions: None

Sampler: [Redacted]
 Relinquished By/Affiliation: [Redacted]
 Date: 1/28/21 Time: 1600
 Received By/Affiliation: FEDER
 Date: 1/28/21 Time: 1600

FEDER

2-2-21 1000

Amanda

2-2-21 1000

Send Results to: kcarlyon@gilbaneco.com
 ktom@gilbaneco.com
 Turnaround Time: Standard

Courier/Airbill No.: FedEx/ 7727 8129 8613

ORIGIN ID: JCCA

SHIP DATE: 01FEB21
ACTWGT: 1.00 LB
CAD: 102700259/NET/4340

BILL SENDER

UNITED STATES US

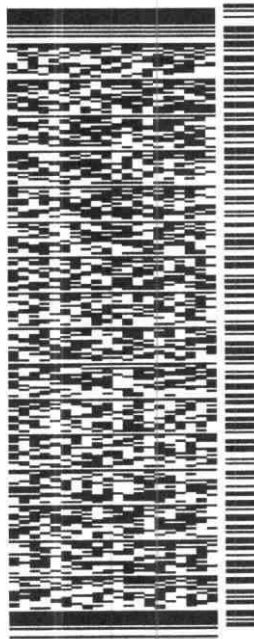
TO

56DJ1/B69B/FE4A

REF: J310000400 8001804000

PO: J310000400

DEPT



J211121011001uv

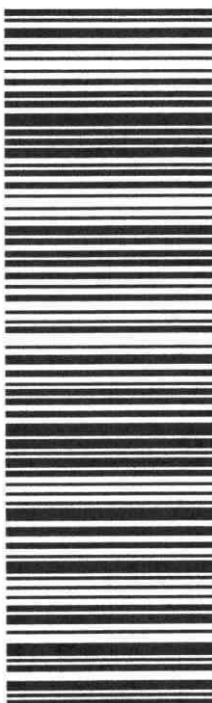
TUE - 02 FEB 4:30P

STANDARD OVERNIGHT

TRK# 7727 8129 8613
0201

AB HBYA

77029
IAH
TX-US



After printing this label:

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

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Date: 2/1/21

Signature: *AB*