
PHASE II ENVIRONMENTAL SITE ASSESSMENT
23rd Street Rehabilitation Project
Galveston, Galveston County, Texas

SUBMITTED TO

Hollaway Environmental + Communications
2500 Summer Street, Suite 1130
Houston, Texas 77007

BY

HVJ ASSOCIATES, INC.

Houston, Texas

July 10, 2020

REPORT NO. HE2010043





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July 10, 2020

Ms. Claire Garvin,
 Vice President + Director of Environmental Services
 Hollaway Environmental + Communications
 2500 Summer Street, Suite 1130
 Houston, Texas 77007

Re: Phase II Environmental Site Assessment (ESA)
 23rd Street Rehabilitation Project
 Owner: Galveston County
 HVJ Project No. HE2010043

Dear Ms. Garvin:

Presented herein is our Phase II Environmental Site Assessment final report for the above referenced project. The assessment was performed in general accordance with our Proposal No. HE2010043 dated January 24, 2020 and the current ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process."

This report presents HVJ Associates' understanding of the project's scope, the methodology we employed in executing the work, and the conclusions we reached subject to the limitations discussed in Section 6 of the report. It has been a pleasure to work with you on this project, and we appreciate the opportunity to be of service.

Sincerely,

HVJ ASSOCIATES, INC.
 Texas Firm Registration No. F-000646

Edward Hawkinson, PG, MS, MBA
 Senior Project Manager

Alexandra Milne, MS
 Environmental Scientist

EH/AM

Copies submitted: 1 electronic copy

The following lists the pages which complete this report:	
● Main Text – 9 pages	● Appendix B – 111 pages
● Plates – 5 pages	● Appendix C – 2 pages
● Appendix A – 23 pages	

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EXECUTIVE SUMMARY

HVJ Associates, Inc. has completed a Phase II ESA report for the 23rd Street Rehabilitation Project in Galveston, Texas. A site vicinity map is provided as Plate 1.

The objective of the assessment is to determine the nature of possible environmental contamination associated with several areas with historical recognized environmental conditions (HRECs) adjacent to the Subject Project Alignments reported in a Hollaway + Communications Phase I ESA for the Subject Project Alignment. Hollaway + Communications described several locations with historical recognized conditions (HRECs) adjacent to the Subject Project Alignment that in their opinion, require further environmental investigation. These locations, chemicals of concern, etc. provided in the Hollaway + Communications Phase I ESA report and are listed in Table 1.

This assessment was performed in general accordance with our HVJ Associates Proposal No. HE2010043 dated January 24, 2020 and current ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process."

The available information for this Subject Project Alignment and subsurface assessment, conducted during May 2020 are summarized below:

- Twenty three borings were drilled using GeoProbe soil boring equipment at nine locations along the 23rd Street Subject Project Alignment.
- One soil sample from each boring was obtained for laboratory analysis of chemicals of concern (COCs). Groundwater was found in sufficient quantities for sampling at seven locations.
- The subsurface soils consist of (in general) brown to gray sand.
- Total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX) were found above the reporting limit in soil samples collected from borings EB1 and EB2 installed in two locations at the north end of the Subject Project Alignment.
- TPH and BTEX was found above the reporting limit in the groundwater sample collected from a temporary monitoring well installed in environmental boring EB1.
- Minor volatile organic compounds (VOCs) were found in soil samples collected from borings EB6 and EB7.

It is likely that the majority of the soils will be non-hazardous and possible that no soil excavated during construction along the Subject Project Alignment will require special handling. Based on the results of this assessment, we recommend no further soil testing along the Subject Project Alignment. This executive summary does not fully summarize our findings and opinions. Those findings and opinions are related through the full report only.

1. INTRODUCTION

1.1 Project Objective and Rationale

HVJ Associates, Inc. (HVJ Associates) was contracted by Hollaway Environmental + Communications to perform a Phase II Environmental Site Assessment (ESA) for a project involving street rehabilitation along 23rd Street from Broadway to Seawall Blvd. in Galveston, Texas. The proposed project includes roadway repaving with concrete and replacing sanitary sewer and some waterlines. The Subject Project Alignment consists of two-lane two-way paved roadway and adjacent right-of ways (ROWs). A site vicinity map is provided as Plate 1. The assessment was done in accordance with the current ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process."

The objective of the assessment was to determine the nature of possible environmental contamination issues at the locations listed in Table 1 below, and their possible impact to the construction of the proposed project.

Hollaway Environmental + Communications conducted a Phase I ESA of the Subject Project Alignment and provided a report with their findings and recommendations. Hollaway described several locations with recognized environmental conditions (RECs) adjacent to the Subject Project Alignment that in their opinion require further environmental investigation. These locations, chemicals of concern, etc. are listed in the following table.

Table 1 23rd Street Rehabilitation Project Subject Project Area Sites with Recognized Environmental Conditions		
Name and Location of Concern	Chemicals of Concern	Concern Documentation/Comment
Brelands Service Station 2301 Avenue J Broadway	BTEX+MTBE, TPH	Brelands Service Station is listed in the EDR Hist Auto database from 1969 and 1974. Due to the unknown nature of tank/leak issues at this location, there is a possibility of a petroleum hydrocarbons (and other) contaminants impact to Subject Project Alignment soil and/or groundwater from this facility.
Broadway Mobil/Citgo Hayward Humble Service 2227/2223 Broadway Street	BTEX+MTBE, TPH	This service station location is as inactive in the IHW Corrective Action database, in the PST Stage 2 database for vapor recovery and in the EDR Hist Auto database since 1969. Due to the unknown nature of tank/leak issues at this location, there is a possibility of a petroleum hydrocarbons (and other) contaminants impact to Subject Project Alignment soil and/or groundwater from this facility.
Pilgrim Cleaners Pilgrim Launderers & Cleaners Queen Cleaners Galveston 1210 23rd Street	VOC, TPH	The Pilgrims Cleaners and Queen Cleaners Galveston facility at this location is a REC due to its listing in the historical dry cleaners database from 19776 through 2005 prior to its listing as a drop station. This location is also listed in the RCRA NonGen, US AIRS, FINDS, ECHO and Ind. Hazardous Waste databases. Spent halogenated solvents utilized at this facility include 1,1,1-trichloroethane, carbon tetrachloride and chlorinated, tetrachloroethylene, trichloroethylene and methylene chloride. There is a possibility of a dry cleaners solvents and other petroleum hydrocarbons contaminants to impact to Subject Project Alignment soil and/or groundwater from this facility.

Table 1
23rd Street Rehabilitation Project
Subject Project Area Sites with Recognized Environmental Conditions

Name and Location of Concern	Chemicals of Concern	Concern Documentation/Comment
Coastal Community Church 1309 23rd Street	BTEX+MTBE, TPH	The Coastal Community Church location is an HREC due to its listing in the LPST database with Priority Description: assessment incomplete, no apparent receptors impacted and Status: release determination. There is a possibility of a petroleum hydrocarbons to impact to Subject Project Alignment soil and/or groundwater from this facility.
RSI Beltone Office Apartment 1625 23rd Street Montagne, Ernest R. 2302 Avenue O	BTEX+MTBE, TPH	The RSI Beltone Office Apartment is an HREC due to its listing in the LPST database with Priority Description: groundwater impacted, no apparent threats or impacts to receptors and Status: final concurrence issued, case closed. This location is also listed in the EDR Hist Auto database from 1969 through 1975. Due to the unknown nature of some tank/leak issues at this location, there is a possibility of a petroleum hydrocarbons (and other) contaminants impact to Subject Project Alignment soil and/or groundwater from this facility.
Ansell Megna Investments Housing for Humanity 1624 23rd Street	BTEX+MTBE, TPH	The Ansell Megna Investments and Housing for Humanity location along 23 rd Street is an HREC due to its listing in the LPST and PST databases. This site is listed in the LPST database with Priority Description: minor soil contamination and Status: final concurrence issued, case closed. One tank was removed from this location during 1996. There is a possibility of a petroleum hydrocarbons to impact to Subject Project Alignment soil and/or groundwater from this facility.
Edgewood Retirement Community Old Buccaneer Hotel 2228 Seawall Boulevard	BTEX+MTBE, TPH	This location is a CREC due to its listing in the LPST database with Priority Description: no groundwater impacted, no apparent threats or impacts to receptors and Status: final concurrence issued, case closed. This location is also listed in the VCP with institutional controls. One tank was removed from the ground at this location during 1999. There is a possibility of a petroleum hydrocarbons to impact to Subject Project Alignment soil and/or groundwater from these facilities.
Wright's Gulf Service 1725 Tremont Street	BTEX+MTBE, TPH	Wright's Gulf Service is listed in the EDR Hist Auto database from 1969 and 1974. Due to the unknown nature of tank/leak issues at this location, there is a possibility of a petroleum hydrocarbons (and other) contaminants impact to Subject Project Alignment soil and/or groundwater from this facility.
Read Ollis Art 1911 Tremont Street	VOC, TPH	This location is listed in the EDR Hist Cleaners database from 1969 through 1987. There is a possibility of a dry cleaners solvents and other petroleum hydrocarbons contaminants to impact to Subject Project Alignment soil and/or groundwater from this facility.

1.2 Project Scope

The following tasks were performed:

1. Prepared a site-specific health and safety plan per 29 CFR 1910.120 (a copy of this document is not attached but is available upon request).
2. Coordinated City of Galveston (COG) permitting with COG engineering personnel.
3. Notified COG engineering 48 hours prior to commencing boring installation operations.
4. Installed 23 borings to depths ranging from 2 ft. to 12 ft. below the ground surface (bgs). We encountered auger refusal at one boring location. All borings were installed using GeoProbe equipment.
5. Performed soil sample field screening with an organic vapor meter (OVM) and obtained selected soil samples for subsequent laboratory analyses.
6. Obtained seven groundwater samples for laboratory analysis.
7. Prepared boring logs (copies of these logs are provided in Appendix A).
8. Submitted selected samples to ALS Houston, US Laboratory for the TPH and either benzene, toluene, ethylbenzene and xylene (BTEX), or VOC analysis. Laboratory results, QA/QC documentation, and chain-of-custody forms are provided in Appendix B.
9. Coordinated drilled cuttings and related drummed non-hazardous waste disposal. Project derived soil waste will be transported to a state approved landfill for disposal by an agent of Clean Earth Environmental Solutions Inc. Waste disposal documentation is provided in Appendix C.
10. Prepared this report summarizing our findings with conclusions and recommendations.

1.3 Basis of Report

Although this assessment has been a reasonably thorough attempt to identify soil and groundwater contamination, there is a possibility that contamination may have escaped detection due to the limitations of this assessment, or the presence of undetected and unreported environmental releases. HVJ Associates reserves the right to alter our conclusions and recommendations based on our review of any information obtained after the date of this report.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by environmental consultants practicing in this or similar localities. No warranty, express or implied, is made as to the professional information included in this report.

1.4 Qualifications of Personnel

The primary assessor for this Phase II ESA is Mr. Edward Hawkinson, PG. Mr. Hawkinson holds BS and MS degrees in geology from The Ohio State University and the University of Cincinnati, respectively. Mr. Hawkinson is a registered Professional Geologist in Texas (license #45). His career encompasses a period exceeding 30 years involving environmental assessments, hydrogeology, water resource evaluations, and energy exploration.

2. BACKGROUND INFORMATION

2.1 Results of Previous Environmental Activity

HVJ Associates was provided with a summary of a Hollaway Environmental + Communications Phase I ESA report for the Subject Project Alignment and the EDR Radius Map Report for the Subject Project Alignment. Hollaway Environmental + Communications described several locations with RECs and/or HRECs adjacent to the Subject Project Alignments that in their opinion required further environmental investigation (see Table 1 for locations).

2.2 Planned Construction Description

The proposed project includes roadway repaving with concrete and replacing sanitary sewer and some waterlines along 23rd Street from Broadway to Seawall Blvd. The Subject Project Alignment is a two-lane two-way paved roadway.

3. INVESTIGATIVE METHODOLOGY

3.1 Soil Boring Sampling and Groundwater Activities

HVJ Associates performed this Phase II ESA in general accordance with the guidance contained in the American Society for Testing and Materials Designation E 1903-97 (2002), Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessments (ASTM E 1903). Prior to conducting our on-site assessment, COG maps were reviewed to determine the location of water and sewer utilities in the Subject Project Alignment area. Texas One-Call was contacted to mark other near surface utilities in the Subject Project Alignment area. Prior to mobilization, a site-specific health and safety plan was prepared in accordance with 29 CFR 1910.120. Prior to drilling and sample screening, all sampling equipment was thoroughly cleaned to prevent cross contamination. All environmental soil borings were installed by driller Mathers Environmental Drilling Inc. (MEDI) using GeoProbe sampling equipment.

Based on HVJ Associates' understanding of the proposed construction plans, borings were installed to total depths ranging from 2 ft. to 12 ft. bgs. At each location, a four-foot long soil core was collected from the ground surface to the top of the water bearing zone or to the approximate depth of construction. Borings were spaced at regular intervals on or very near the locations of the proposed construction activity. Borings location maps are attached (see Plates 2A, 2B, 2C and 2D). The soil borings were placed in the best practicable locations, considering the location of utilities and other site-specific conditions. Soil samples obtained were continuously examined for impact using visual and olfactory methods. Samples were also screened for organic vapors with a properly calibrated Organic Vapor Meter (OVM). Descriptions of the materials encountered are presented on the boring logs (Appendix A).

One soil sample was collected from each boring and submitted for laboratory analysis. OVM readings, along with visual evidence of impact and a physical description of the soils, were recorded on a boring log. The soil samples were obtained for laboratory analysis from the zone of the highest OVM readings. If there were no OVM readings (above background), a soil sample was obtained from the top of the water table. If no groundwater was encountered, the soil samples were obtained from the approximate depth of construction. Groundwater was encountered in sufficient quantity for sampling in seven environmental boring locations (EB1, EB5, EB8, EB14, EB15, EB18, and EB22). Clean PVC temporary monitoring wells were installed in these borings and a groundwater sample was collected using clean tubing and a peristaltic pump.

The on-site screening was conducted by cutting a sub-sample from each one-foot interval of core with a decontaminated knife. The soil samples were placed in airtight containers (sealable plastic bags), and held for approximately twenty minutes to allow the volatilization of organic vapors. At the end of this period, the headspace air inside the container was screened with the OVM. This was accomplished by inserting the OVM probe tip into a narrow opening in the plastic bag seal. The

headspace reading and corresponding depth was recorded on the boring log. Following OVM screening, one soil sample from each borehole was selected for laboratory analyses (OVM readings are presented on the boring logs). Samples were selected for analysis based on criteria described above. The samples selected were placed into pre-labeled laboratory-supplied glass jars, placed on water ice in an insulated cooler, and shipped under chain-of-custody to ALS Houston, US Laboratory for analysis. Subsequent to the drilling and sampling activities, each borehole was plugged from total depth to the surface using bentonite plugging material in accordance with standard drilling practice.

3.2 Laboratory Analysis Performed

ALS Houston, US Laboratory performed the following analyses on selected soil samples and a single groundwater sample collected from the environmental borings installed along the Subject Project Alignment as follows:

- TPH using TCEQ TX Method 1005; and
- Volatile Organic Compounds (VOCs) by EPA Method SW 846 8260C (for dry cleaners locations); or
- BTEX by EPA Method SW 846 8260C (for service station locations).

Copies of laboratory reports by ALS Houston, US Laboratory as well as the standard chain-of-custody documentation are included in Appendix B.

3.3 Waste Management

Assessment derived wastes (primarily soil cuttings) were generated in a small amounts during this assessment. Approximately five kilograms of soil cuttings were generated per boring. These materials were containerized and transported to HVJ Associates property for temporary storage until the results of the laboratory analyses were received in order to determine disposal requirements. Waste disposal is currently pending disposal approval. Landfill disposal of these materials will take place a standard waste manifest by an agent of Clean Earth Environmental Solutions Inc. once this approval has been obtained. Copies of the waste profile and manifest documents will be provided in Appendix C of the final version of this report.

4. ASSESSMENT RESULTS

4.1 Site Specific Soil Conditions

The subsurface soils consist of (in general) brown to gray sand. Specific soil descriptions and field observations for the soil borings are included on the boring logs contained in Appendix A. Soil classifications presented on the boring logs are based on visual field classification and have not been verified by geotechnical laboratory tests. Actual soil conditions may differ from those presented on the boring logs.

4.2 Analytical Findings – Soil

The soil sample collected from boring EB1 was found to contain TPH and BTEX at or above the reporting limit. The soil samples collected from borings EB2 was found to contain TPH and toluene, ethylbenzene and xylene at or above the reporting limit. The soil sample collected from environmental boring EB6 contained acetone at or above the reporting limit. The soil sample collected from environmental boring EB7 contained carbon disulfide at or above the reporting limit.

Table 2 – TOTAL PETROLEUM HYDROCARBONS and VOCs Soil Analytical Results and TCEQ PCLs (results in mg/Kg for soil)						
MOST ANALYSES REPORTED BELOW THE REPORTING LIMIT ARE NOT INCLUDED IN THIS TABLE						
Parameter	BORING NUMBER AND DEPTH OF SAMPLE (FT.)				TCEQ PCL	
	EB1 (0-4)	EB2 (0-4)	EB6 (4-8)	EB7 (4-8)	^{TOT} SOIL _{COMB}	^{GW} SOIL _{ING}
TOTAL PETROLEUM HYDROCARBONS by TCEQ TX 1005						
nC6-nC12	220	720	<44	<45	1,600	65
>nC12-nC28	220	350	<44	<45	2,300	200
>nC28-nC35	<47	<52	<44	<45	2,300	200
Total Petroleum Hydrocarbons	420	1,070	<44	<45	2,300	200
VOLATILE ORGANIC COMPOUNDS (EPA METHOD SW- 846 8021B)						
Benzene	0.048	<0.0041	<0.0040	<0.0044	1,200	0.026
Ethylbenzene	1.9	0.019	<0.0040	<0.0044	6,400	7.6
Toluene	0.0084	<0.0041	<0.0040	<0.0044	5,900	8.2
Xylene (total)	5.8	0.011	<0.0040	<0.0044	6,000	120
Acetone	NS	NS	0.029	<0.018	66,000	43
Carbon disulfide	NS	NS	<0.0081	0.010	4,600	14

Table Notes:

- 1) Levels from the current TRRP Table 1 Tier Soil Protective Concentration Limits (PCLs) (^{Tot}Soil_{Comb} and ^{GW}Soil_{Ing} exposure pathway for surface soil) for a 0.5-acre residential source area (the levels listed in **RED** exceeds the TRRP Table 1 PCL action level).
- 2) Results listed with the “<” symbol are below the reporting limit.
- 3) NS = sample was not analyzed for parameter.

4.3 Analytical Findings – Groundwater

The groundwater sample collected from a temporary monitoring well installed in environmental boring EB1 was found to contain TPH and several VOCs at or above the reporting limit.

Table 3 – TOTAL PETROLEUM HYDROCARBONS and VOCs Groundwater Analytical Results and TCEQ PCLs (results in mg/L for groundwater)		
MOST ANALYSES REPORTED BELOW THE REPORTING LIMIT ARE NOT INCLUDED IN THIS TABLE		
Parameter	BORING NUMBER	TCEQ PCL
	EB1	^{GW} GW _{ING}
TOTAL PETROLEUM HYDROCARBONS by TCEQ TX 1005		
nC6-nC12	2.70	0.98
>nC12-nC28	<0.49	0.98
>C28-C35	<0.49	0.98
Total Petroleum Hydrocarbons	2.70	
VOLATILE ORGANIC COMPOUNDS (EPA METHOD SW8260C)		
Benzene	0.59	0.005
Ethylbenzene	0.11	0.70
Toluene	0.023	1.00
Xylenes	0.15	10.00

Table Notes:

- 1) Levels from the current TRRP Table 3 Tier 1 Residential GW Protective Concentration Limits (PCLs) (^{GW}GW_{ING} exposure pathway for groundwater). The levels listed in **RED** exceeds the TRRP Table 3 PCL action level.
- 2) Results listed with the “<” symbol are below the reporting limit.

Levels of TPH and of the VOCs benzene, ethylbenzene, xylenes and toluene were found in the groundwater sample collected from the temporary monitoring well installed in environmental boring EB1. Two of these levels (for benzene and TPH nC6-nC12) were found to be above the TRRP Table 3 Tier 1 Residential GW PCLs (^{GW}GW_{ING}) exposure pathway for groundwater. The ^{GW}GW_{ING} exposure pathway for groundwater was chosen for the tables because it tends to be a conservative number.

5. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

5.1 Summary and Conclusions

The subsurface soils consist of (in general) brown to gray sand. We conclude that the soil sample collected from borings EB1 and EB2 was found to contain BTEX constituents and TPH above the reporting limit. These levels were compared to the current TRRP Table 1 Tier Soil Protective Concentration Limits (PCLs) (^{Tot}Soil_{Comb} and ^{GW}Soil_{Ing} exposure pathway for surface soil) for a 0.5-acre residential source area. TPH and benzene found in the sample collected from boring EB1 and TPH found in the sample collected from boring EB2 exceed the TRRP PCL for the ^{GW}Soil_{Ing} exposure pathway but did not exceed the PCL for the ^{Tot}Soil_{Comb} exposure pathway. The VOC acetone was found above the reporting limit in boring EB6 and the VOC carbon sulfide was found

above the reporting limit in boring EB7. Both of these levels were below the TRRP Table 1 Tier Soil PCL ^{Tot}Soil_{Comb} and ^{GW}Soil_{Ing} exposure pathway for surface soil.

A levels of TPH and of the VOCs benzene, ethylbenzene, xylenes and toluene were found in the groundwater sample collected from the temporary monitoring well installed in environmental boring EB1. Two of these levels (for nC6-nC12 and benzene) were found to be above the TRRP Table 3 Tier 1 Residential GW PCLs (^{GW}GW_{Ing}) exposure pathway for groundwater.

5.2 Recommendations

Based on a comparison of analytical results detailed in this report with TCEQ Protective Concentration Levels and other information, we recommend no further environmental assessment along the Subject Project Alignment. We recommend additional worker protection at the north end of the Subject Project Alignment since contaminant levels are present. We recommend petroleum resistant piping and gaskets and other petroleum contaminated design considerations for this project at the north end of the Subject Project Alignment in the vicinity of environmental borings EB1 and EB2. In the event that environmental contamination is found during construction, we recommend worker health, safety, and other procedures in accordance with current COG design specifications.

6. LIMITATIONS

This report is an instrument of service of HVJ Associates, Inc. The report was prepared for and is intended for the exclusive use of Hollaway Environmental + Communications and the COG. The report's contents may not be relied upon by any other party without the express written permission of HVJ Associates. With the written permission of Hollaway Environmental + Communications and/or the COG, HVJ Associates will meet with a third party to help identify the additional services required, if any, to permit such third party to rely on the information contained in this report, but only to the same extent of Hollaway Environmental + Communications and/or the COG reliance, and subject to the same contractual, technological, and other limitations to which the COH has agreed.

The report's findings are based on conditions that existed on the date of HVJ Associates site visit and field assessment, and should not be relied upon to precisely represent conditions at any other time. The scope of service executed for this project is not equivalent to the scope of service needed to provide the information to completely establish the quantities and distribution of the petroleum hydrocarbon and/or other compounds affected soils present at the Subject Project Alignment. HVJ Associates has based the conclusions included in this report on its observation of existing Subject Project Alignment conditions, its interpretation of Subject Project Alignment history, its interpretation of the Subject Project Alignment usage information it was able to access, and the results of a limited program of subsurface exploration, sample screening and chemical analysis. The concentration of contaminants HVJ Associates measured may not be representative of conditions between locations sampled. Be aware that conditions may change at any sampled or unsampled location as a function of time, in response to natural conditions, chemical reactions, and/or other events.

Conclusions about Subject Project Alignment conditions under no circumstances comprise a warranty that conditions in all areas within the Subject Project Alignment (and below existing grade) are of the same quality as the Subject Project Alignment sampled.

The scope of service HVJ Associates implemented was based, in part, on the rules and regulations for contaminated sites as promulgated by the TCEQ and the COG. The rules, regulations, and guidelines by which this assessment was conducted were understood to be current or expected at the time HVJ Associates developed its proposal. Any additional information about this Subject Project Alignment that becomes available should be provided to HVJ Associates for its review, so HVJ Associates can modify its recommendations as necessary.

7. REFERENCES

The following references were used to compile this report:

- Bureau of Economic Geology, 1982. Geologic Atlas of Texas, Houston Sheet, University of Texas at Austin.
- USDA Soil Conservation Service (Natural Resources Conservation Service), Soil Survey of Galveston County, Texas.
- ASTM Standard Practice E-1903 – 97 (2002) “Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process.”
- TCEQ TRRP Residential Soil and Groundwater Protective Concentration Limits (PCLs).
- Hollaway + Communications Phase I Environmental Site Assessment, 23rd Street Rehabilitation Project.

PLATES



Broadway Corner Store/J P Enterprise Inc.
1928 Broadway St.

Shell Station/Broadway Service Center
1902 Broadway Street

Brelands Service Station
2301 Avenue J Broadway

Tony Hone Firestone
Tire/ Bill Martins -
2302 Broadway Street

Chevron USA
1802 Water

Big State Car Wash
2502 Broadway Street

Broadway Mobil/Broadway Citgo/EYAD Enterprises Inc.
Hayward J B Humble S
2227/2223 Broadway Street

Galveston Food & Gas/
Stop N Go 3540
2525 Broadway Street

My Choice Dry Cleaners
1117 23rd Street

Chief Auto Parts 24760
2501 Broadway Street

Pilgrim Cleaners Inc/Pilgrim Cleaners/ Pilgrim Launderers &
Cleaners/Queen Cleaners Inc Galveston
1210 Tremont St/1210 23rd Street Tremont

Subject Property (8.35 ac)

Vacant 1.08 acre tract
2427 Broadway Street

Coastal Community Church
1309 23rd Street

RSI Beltone Office Apartment
1625 23rd Street

Ansell Megna Investments/Housing for Humanity
1624 23rd Street

Montagne Ernest R
2302 Avenue O

Wrights Gulf Service
1725 23rd Street/ 1725 Tremont 23rd Street

Read Ollis Art
1909/1911 Tremont Street

Edgewood Retirement Community/ Old Buckaneer
2228 Seawall Boulevard

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23rd Street Rehabilitation Project

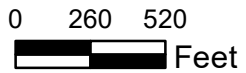
2019 AERIAL PHOTOGRAPH WITH SITE SCHEMATIC

Galveston County, Texas

Created: 7/31/2019



HOLLAWAY
ENVIRONMENTAL + COMMUNICATIONS





LEGEND:

 **BORING LOCATIONS**

NOTE:

One temporary water well was installed at these two facilities.



6120 S. Dairy Ashford Road
Houston, Texas 77072-1010
281.933.7388 Ph
281.933.7293 Fax

DATE: 6/1/2020

APPROVED BY:
EH

PREPARED BY:
AM

**PLAN OF BORINGS
PHASE II ESA – 23rd STREET REHABILITATION PROJECT**

PROJECT NO.:
HE2010043

DRAWING NO.:
PLATE 2A



LEGEND:

 **BORING LOCATIONS**

NOTE:
Two temporary water wells were installed at these two facilities.



6120 S. Dairy Ashford Road
Houston, Texas 77072-1010
281.933.7388 Ph
281.933.7293 Fax

DATE: 6/1/2020

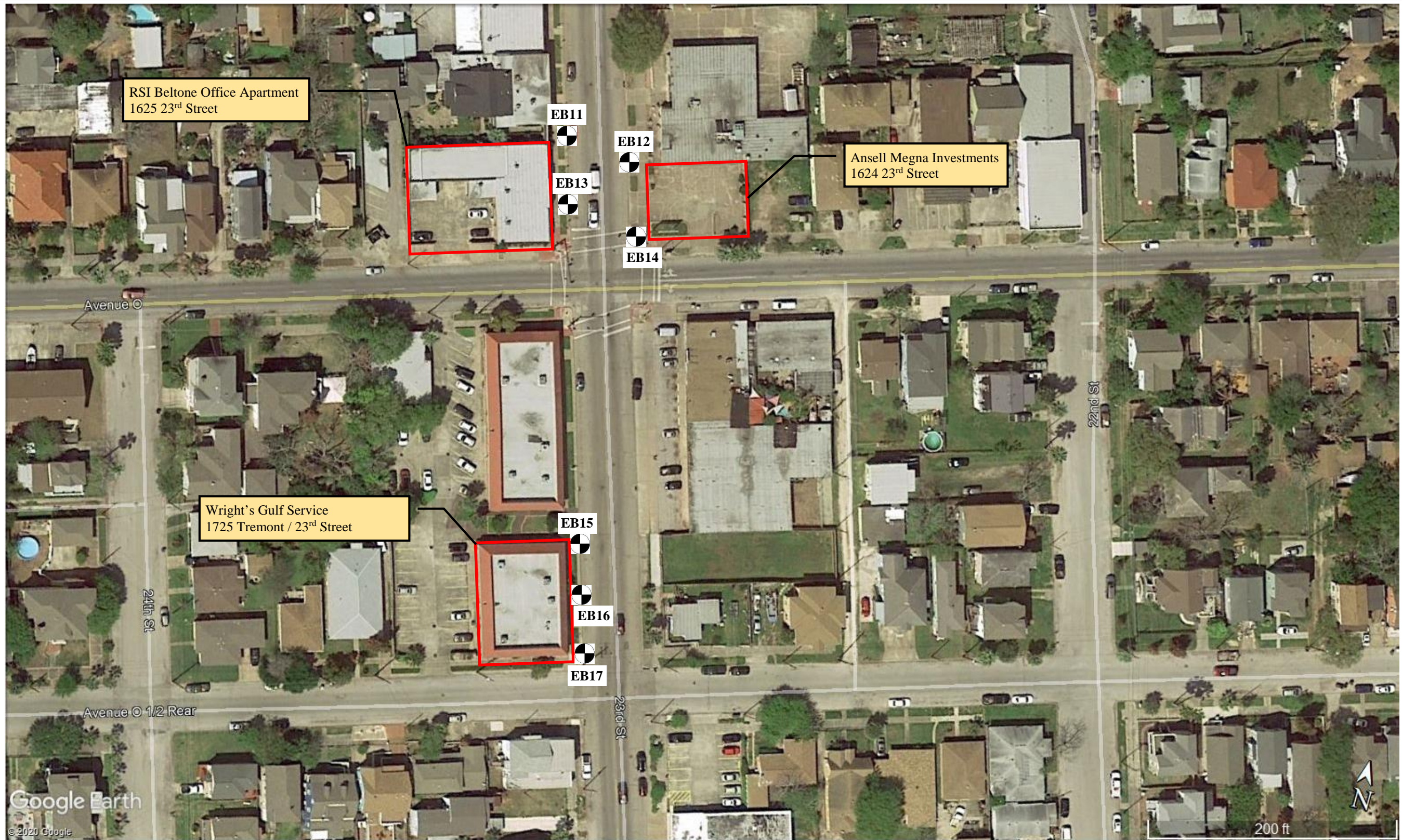
APPROVED BY:
EH

PREPARED BY:
AM

PLAN OF BORINGS
PHASE II ESA – 23rd STREET REHABILITATION PROJECT

PROJECT NO.:
HE2010043

DRAWING NO.:
PLATE 2B



LEGEND:

 **BORING LOCATIONS**

NOTE:

Two temporary water wells were installed at these three facilities.



6120 S. Dairy Ashford Road
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DATE: 6/1/2020

APPROVED BY:
EH

PREPARED BY:
AM

**PLAN OF BORINGS
PHASE II ESA – 23RD STREET REHABILITATION PROJECT**

PROJECT NO.:
HE2010043

DRAWING NO.:
PLATE 2C



LEGEND:

 **BORING LOCATIONS**

NOTE:
Two temporary water were installed at these two facilities.



6120 S. Dairy Ashford Road
Houston, Texas 77072-1010
281.933.7388 Ph
281.933.7293 Fax

DATE: 6/1/2020

APPROVED BY:
EH

PREPARED BY:
AM





**PLAN OF BORINGS
PHASE II ESA – 23rd STREET REHABILITATION PROJECT**

PROJECT NO.:
HE2010043

DRAWING NO.:
PLATE 2D

APPENDIX A
BORING LOGS








Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB1	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen: 0.75" diam. 10' riser  From: 12 - To: 6	
Logged By: AM		Checked By: EH		Pack: bentonite  From: 12 - To: 0	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Dark gray Sandy Silt with roots	HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)	
				346.2				
				346.2				
				346.2				
				346.2		Brown Sand	HYDROCARBON ODOR	
5				12.7				
				12.7				
				12.7				
				12.7		Brown Sand	HYDROCARBON ODOR	
				9.2				
10				9.2				
				9.2				
				9.2				
				9.2		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB10	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Reddish gray Sand	NO HYDROCARBON ODOR	0
				7.9		Gray Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	
				7.9				
				7.9				
				7.9				
5				9.7		Greenish gray Sand	NO HYDROCARBON ODOR	5
				9.7				
				9.7				
				9.7				
10				8.9				10
				8.9				
				8.9				
				8.9				
				8.9		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB11	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EM		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand with roots	NO HYDROCARBON ODOR	0
5				5		Gray Sand	NO HYDROCARBON ODOR	5
10				7.1		Gray Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 8-12 FT.)	10
				7.1		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE IIESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB12	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				8.4				
				8.4				
				8.4				
				8.4		Gray Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	
5				9.5				5
				9.5				
				9.5				
				9.5		Gray Sand	NO HYDROCARBON ODOR	
				0.8				
10				0.8				10
				0.8				
				0.8				
				0.8		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE IIESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20










Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB13	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)	0
				25.5				
				25.5		Gray Sand	NO HYDROCARBON ODOR	5
5				12.6				
				12.6				
				12.6				
				12.6		Gray Sand	NO HYDROCARBON ODOR	10
10				9.8				
				9.8				
				9.8				
				9.8		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







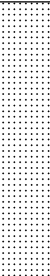



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Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen: 0.75" diam. 10' riser  From: 12 - To: 6	
Logged By: AM		Checked By: EH		Pack: bentonite  From: 12 - To: 0	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: 		GW Level: 12.0 		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction	
0						Brown Sand	NO HYDROCARBON ODOR	0	
				8.6					
				8.6					
				8.6					
				8.6		Gray Sand	HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	5	
5				12					
				12					
				12					
				12		Gray Sand	NO HYDROCARBON ODOR		
10				5.8					
				5.8				10	
				5.8					
				5.8					
				5.8		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)			

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20








Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB15	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen: 0.75" diam. 10' riser  From: 12 - To: 6	
Logged By: AM		Checked By: EH		Pack: bentonite  From: 12 - To: 0	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				10.1		Gray Sand	NO HYDROCARBON ODOR	
				10.1				
				10.1				
				10.1				
5				9.1		Gray Sand	NO HYDROCARBON ODOR	5
				9.1				
				9.1				
				9.1		Gray Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 8-12 FT.)	
				9.1				
				9.1				
10				13		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		10
				13				
				13				
				13				

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB16	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				11.3		Gray Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	
				11.3				
				11.3				
				11.3				
5				13.8		Gray Sand	NO HYDROCARBON ODOR	5
				13.8				
				13.8				
				13.8				
10				12.7		Gray Sand	NO HYDROCARBON ODOR	10
				12.7				
				12.7				
				12.7				
				12.7		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20









Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB17	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Gray Sand	NO HYDROCARBON ODOR	0
				9.1				
				9.1				
				9.1				
				9.1		Gray Clay	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	5
5				11				
				11				
				11				
				11		Gray Sand	NO HYDROCARBON ODOR	
				10.3				
10				10.3				10
				10.3				
				10.3				
				10.3		***BORING TERMINATED AT 12 FEET BELOW GROUND SUFRACE (BGS)		

LAEWNL03 HE2010043 PHASE IIESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB18	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen: 0.75" diam. 10' riser  From: 12 - To: 6	
Logged By: AM		Checked By: EH		Pack: bentonite  From: 12 - To: 0	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: 		GW Level: 12.0 		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				7.6				
				7.6				
				7.6				
				7.6		Gray Sand with shell fragments	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	
5				12.1				5
				12.1				
				12.1				
				12.1		Gray Sand with shell fragments	NO HYDROCARBON ODOR	
				5.6				
10				5.6				10
				5.6				
				5.6				
				5.6		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20








Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB19	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)	0
				13.7				
				13.7				
				13.7				
				13.7		Gray Sand with shell fragments	NO HYDROCARBON ODOR	5
5				11.1				
				11.1				
				11.1				
				11.1		Gray Sand	NO HYDROCARBON ODOR	10
10				10				
				10				
				10				
				10				
				10		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB2	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction	
0				225		Brown Sand	HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)		
			225						
			225						
			225			Dark gray Sand	HYDROCARBON ODOR		
5				47.8					
				47.8					
				47.8					
				47.8		Brown Sand	HYDROCARBON ODOR		
10				53					
				53					
				53					
				53		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)			

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB20	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand with shell fragments	NO HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)	0
				11.8				
				11.8				
				11.8				
				11.8		Gray Sand with shell fragments	NO HYDROCARBON ODOR	5
5				9.5				
				9.5				
				9.5				
				9.5				
				11.4		Gray Sand with shell fragments	NO HYDROCARBON ODOR	10
10				11.4				
				11.4				
				11.4				
				11.4		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20









Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB21	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 2.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: <input checked="" type="checkbox"/>		GW Level: <input type="checkbox"/>	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0							Auger refusal - gas line	0
							***BORING TERMINATED AT 2 FEET BELOW GROUND SURFACE (BGS)	

LAEWNL03 HE2010043 PHASE I IESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB22	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen: 0.75" diam. 10' riser  From: 12 - To: 6	
Logged By: AM		Checked By: EH		Pack: bentonite  From: 12 - To: 0	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: 		GW Level: 12.0 		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
10.1						Gray Sand with shell fragments	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	5
10.1						Gray Clay	NO HYDROCARBON ODOR	10
6.4						***BORING TERMINATED 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB23	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/21/20		Date Completed: 5/21/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				7.9				
				7.9				
				7.9				
				7.9		Brown Sand	NO HYDROCARBON ODOR	
5				8.4				5
				8.4				
				8.4				
				8.4				
				8.4		Gray Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 8-12 FT.)	
10				9.7				10
				9.7				
				9.7				
				9.7				
				9.7		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB3	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)	0
10.4				10.4		Brown Sand	NO HYDROCARBON ODOR	5
10.4				7.4		Brown Sand	NO HYDROCARBON ODOR	10
10.4				7.6		Brown Sand	NO HYDROCARBON ODOR	10
10.4				7.6		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20









Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB4	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				10.4				
				10.4				
				10.4				
				10.4		BrownSand	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	5
5				12.4				
				12.4				
				12.4				
				12.4		Brown Sand	NO HYDROCARBON ODOR	10
10				12.2				
				12.2				
				12.2				
				12.2				
				12.2		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20








Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB5	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen: 0.75" diam. 10' riser  From: 12 - To: 6	
Logged By: AM		Checked By: EH		Pack: bentonite  From: 12 - To: 0	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: 		GW Level: 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				9.4		Gray Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	
				9.4				
				9.4				
				9.4				
5				11.8		Gray Sand	NO HYDROCARBON ODOR	5
				11.8				
				11.8				
				11.8				
10				9.4		Gray Sand	NO HYDROCARBON ODOR	10
				9.4				
				9.4				
				9.4				
				9.4		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20








Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB6	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 8.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 8.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				9.6		Brown Sand	NO HYDROCARBON ODOR	0
				9.6				
				9.6				
				9.6				
5				10.7		Gray Sand with 1 mm sized gravels	NO HYDROCARBON ODOR (SAMPLE TO LAB 4-8 FT.)	5
				10.7				
				10.7				
				10.7				
				10.7		Groundwater		
						***BORING TERMINATED AT 8 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20










Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB7	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0	Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Brown Sand	NO HYDROCARBON ODOR	0
				11		Gray Sand	NO HYDROCARBON ODOR	
				11				
				11				
				11				
5				11.2		Gray Sand	NO HYDROCARBON ODOR	5
				11.2				
				11.2				
				11.2		Gray Sand	NO HYDROCARBON ODOR	
10				13.5				10
				13.5				
				13.5				
				13.5		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20







Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB8	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen: 0.75" diam. 10' riser  From: 12 - To: 6	
Logged By: AM		Checked By: EH		Pack: bentonite  From: 12 - To: 0	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: 		GW Level: 12.0 		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Reddish Brown Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)	0
				15.3		Gray Sand with 1 mm-sized gravels	NO HYDROCARBON ODOR	5
			15.3					
			15.3					
			15.3					
5				11.4		Gray Sand	NO HYDROCARBON ODOR	10
				11.4				
				11.4				
				11.4				
10				9.7				
				9.7				
				9.7				
				9.7				
				9.7		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20



Client: Hollaway Environmental + Communications		Job No.: HE2010043		Boring/Well: EB9	
Project: Phase II ESA - 23rd Street Rehabilitation Project			Well Construction Data		
Date Started: 5/20/20		Date Completed: 5/20/20		Screen:  From: - To:	
Logged By: AM		Checked By: EH		Pack:  From: - To:	
Drilling Co.: MEDI		Driller:		Seal:  From: - To:	
Method: GEOPROBE		Equipment:		Grout:  From: - To:	
Boring Depth: 12.0		Ground Surface Elevation:		Inner Casing:	
Initial GW Level: ∇		GW Level: ∇ 12.0		Time/Date:	
				Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Reddish Brown Sand	NO HYDROCARBON ODOR (SAMPLE TO LAB 0-4 FT.)	0
				11				
				11				
				11				
				11		Gray Sand	NO HYDROCARBON ODOR	
5				7.6				5
				7.6				
				7.6				
				7.6				
				9		Gray Sand	NO HYDROCARBON ODOR	
10				9				10
				9				
				9				
				9				
				9		***BORING TERMINATED AT 12 FEET BELOW GROUND SURFACE (BGS)		

LAEWNL03 HE2010043 PHASE II ESA 23RD STREET REHABILITATION PROJECT - GALVESTON.GPJ LAEWNL03.GDT 6/1/20

APPENDIX B

ANALYTICAL LAB REPORT/CHAIN OF CUSTODY DOCUMENTATION



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 01, 2020

Ed Hawkinson
HVJ Associates
6120 S. Dairy Ashford Rd.
Houston, TX 770721010

Work Order: **HS20050835**

Laboratory Results for: **Phase II ESA project**

Dear Ed,

ALS Environmental received 32 sample(s) on May 21, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

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

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

Sincerely,

Generated By: JUMOKE.LAWAL
RJ Modashia
Project Manager

Client: HVJ Associates
Project: Phase II ESA project
Work Order: HS20050835

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20050835-01	EB-7 (8-12)	Soil		20-May-2020 11:26	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-02	EB-8 (0-4)	Soil		20-May-2020 11:45	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-03	EB-9 (0-4)	Soil		20-May-2020 12:18	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-04	EB-10 (4-8)	Soil		20-May-2020 12:35	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-05	EB-11 (8-12)	Soil		20-May-2020 13:51	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-06	EB-14 (4-8)	Soil		20-May-2020 13:00	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-07	EB-1 (0-4)	Soil		20-May-2020 09:16	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-08	EB-2 (0-4)	Soil		20-May-2020 09:45	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-09	EB-3 (0-4)	Soil		20-May-2020 09:57	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-10	EB-4 (4-8)	Soil		20-May-2020 10:24	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-11	EB-5 (4-8)	Soil		20-May-2020 10:44	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-12	EB-6 (4-8)	Soil		20-May-2020 11:08	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-13	EB-1 (8-12)	Water		20-May-2020 09:34	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-14	EB-5 (8-12)	Water		20-May-2020 10:51	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-15	EB-8 (8-12)	Water		20-May-2020 11:58	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-16	EB-13 (0-4)	Soil		21-May-2020 09:00	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-17	EB-15 (8-12)	Soil		21-May-2020 09:26	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-18	EB-15 (8-12) Water	Water		21-May-2020 09:26	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-19	EB-16 (4-8)	Soil		21-May-2020 09:51	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-20	EB-17 (4-8)	Soil		21-May-2020 10:07	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-21	EB-18 (4-8)	Soil		21-May-2020 10:26	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-22	EB-18 (8-12) Water	Water		21-May-2020 11:32	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-23	EB-19 (0-4)	Soil		21-May-2020 10:51	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-24	EB-20 (0-4)	Soil		21-May-2020 11:06	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-25	EB-23 (8-12)	Soil		21-May-2020 11:29	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-26	EB-22 (4-8)	Soil		21-May-2020 11:50	21-May-2020 15:57	<input type="checkbox"/>

Client: HVJ Associates
Project: Phase II ESA project
Work Order: HS20050835

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20050835-27	EB-22 (8-12) Water	Water		21-May-2020 11:54	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-28	Composite I	Soil		21-May-2020 12:00	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-29	Composite II	Soil		21-May-2020 12:00	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-30	Composite III	Soil		21-May-2020 12:00	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-31	EB-12	Soil		20-May-2020 13:34	21-May-2020 15:57	<input type="checkbox"/>
HS20050835-32	EB-14 Water	Water		20-May-2020 12:56	21-May-2020 15:57	<input type="checkbox"/>

Client: HVJ Associates
Project: Phase II ESA project
Work Order: HS20050835

CASE NARRATIVE

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GC Semivolatiles by Method TX1005**Batch ID: 153754****Sample ID: LCS-153754**

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Batch ID: 153758**Sample ID: HS20050821-01MS**

- MS and MSD are for an unrelated sample

Batch ID: 153801**Sample ID: LCSD-153801**

- LCSD RPD was above the upper control limit. The individual recoveries were in control. (>nC12 to nC28)

Batch ID: 153823**Sample ID: HS20050825-05MS**

- MS and MSD are for an unrelated sample (>nC12 to nC28)

GCMS Semivolatiles by Method SW1311/8270**Batch ID: 153878**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260**Batch ID: 153832****Sample ID: HS20050892-05MS**

- MS is for an unrelated sample

Batch ID: R362107**Sample ID: EB-1 (8-12) (HS20050835-13)**

- Lowest practical dilution due to sample matrix.

Sample ID: HS20050884-01MS

- MS and MSD are for an unrelated sample

Batch ID: R362162**Sample ID: HS20050881-03MS**

- MS and MSD are for an unrelated sample

Client: HVJ Associates
Project: Phase II ESA project
Work Order: HS20050835

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R362167

Sample ID: HS20050905-01MSD

- MSD is for an unrelated sample

Batch ID: R362239

Sample ID: HS20050852-02MS

- MS and MSD are for an unrelated sample

Batch ID: R362160,R362241

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470

Batch ID: 153922

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 153850

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW3550

Batch ID: R362086,R362174

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9045D

Batch ID: R362147

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R362025

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.4.2

Batch ID: R362020

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D92-12b

Batch ID: R361984

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-7 (8-12)
 Collection Date: 20-May-2020 11:26

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
1,1,1-Trichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,1,2,2-Tetrachloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,1,2-Trichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,1-Dichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,1-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,2,4-Trichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,2-Dibromo-3-chloropropane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,2-Dibromoethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,2-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,2-Dichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,2-Dichloropropane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,3-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
1,4-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
2-Butanone	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
2-Hexanone	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
4-Methyl-2-pentanone	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
Acetone	< 0.018		0.018	mg/Kg	1	27-May-2020 16:55
Benzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Bromodichloromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Bromoform	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Bromomethane	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
Carbon disulfide	0.010		0.0088	mg/Kg	1	27-May-2020 16:55
Carbon tetrachloride	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Chlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Chloroethane	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
Chloroform	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Chloromethane	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
cis-1,2-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
cis-1,3-Dichloropropene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Cyclohexane	< 0.0044	n	0.0044	mg/Kg	1	27-May-2020 16:55
Dibromochloromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Dichlorodifluoromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Ethylbenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Isopropylbenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
m,p-Xylene	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
Methyl acetate	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Methyl tert-butyl ether	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Methylcyclohexane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-7 (8-12)
 Collection Date: 20-May-2020 11:26

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Methylene chloride	< 0.0088		0.0088	mg/Kg	1	27-May-2020 16:55
o-Xylene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Styrene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Tetrachloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Toluene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
trans-1,2-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
trans-1,3-Dichloropropene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Trichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Trichlorofluoromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Vinyl chloride	< 0.0018		0.0018	mg/Kg	1	27-May-2020 16:55
Xylenes, Total	< 0.0044		0.0044	mg/Kg	1	27-May-2020 16:55
Surr: 1,2-Dichloroethane-d4	94.8		70-126	%REC	1	27-May-2020 16:55
Surr: 4-Bromofluorobenzene	99.4		70-130	%REC	1	27-May-2020 16:55
Surr: Dibromofluoromethane	93.5		70-130	%REC	1	27-May-2020 16:55
Surr: Toluene-d8	103		70-130	%REC	1	27-May-2020 16:55
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 45		45	mg/Kg	1	22-May-2020 21:44
>nC12 to nC28	< 45		45	mg/Kg	1	22-May-2020 21:44
>nC28 to nC35	< 45		45	mg/Kg	1	22-May-2020 21:44
Total Petroleum Hydrocarbon	< 45		45	mg/Kg	1	22-May-2020 21:44
Surr: 2-Fluorobiphenyl	95.9		70-130	%REC	1	22-May-2020 21:44
Surr: Trifluoromethyl benzene	103		70-130	%REC	1	22-May-2020 21:44
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	21.1		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-8 (0-4)
 Collection Date: 20-May-2020 11:45

ANALYTICAL REPORT

WorkOrder:HS20050835
 Lab ID:HS20050835-02
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0049		0.0049	mg/Kg	1	27-May-2020 04:00
Ethylbenzene	< 0.0049		0.0049	mg/Kg	1	27-May-2020 04:00
m,p-Xylene	< 0.0098		0.0098	mg/Kg	1	27-May-2020 04:00
Methyl tert-butyl ether	< 0.0049		0.0049	mg/Kg	1	27-May-2020 04:00
o-Xylene	< 0.0049		0.0049	mg/Kg	1	27-May-2020 04:00
Toluene	< 0.0049		0.0049	mg/Kg	1	27-May-2020 04:00
Xylenes, Total	< 0.0049		0.0049	mg/Kg	1	27-May-2020 04:00
<i>Surr: 1,2-Dichloroethane-d4</i>	92.0		70-126	%REC	1	27-May-2020 04:00
<i>Surr: 4-Bromofluorobenzene</i>	101		70-130	%REC	1	27-May-2020 04:00
<i>Surr: Dibromofluoromethane</i>	95.6		70-130	%REC	1	27-May-2020 04:00
<i>Surr: Toluene-d8</i>	107		70-130	%REC	1	27-May-2020 04:00
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 46		46	mg/Kg	1	22-May-2020 22:14
>nC12 to nC28	< 46		46	mg/Kg	1	22-May-2020 22:14
>nC28 to nC35	< 46		46	mg/Kg	1	22-May-2020 22:14
Total Petroleum Hydrocarbon	< 46		46	mg/Kg	1	22-May-2020 22:14
<i>Surr: 2-Fluorobiphenyl</i>	85.5		70-130	%REC	1	22-May-2020 22:14
<i>Surr: Trifluoromethyl benzene</i>	92.6		70-130	%REC	1	22-May-2020 22:14
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	16.9		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-9 (0-4)
 Collection Date: 20-May-2020 12:18

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-03
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:25
Ethylbenzene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:25
m,p-Xylene	< 0.0092		0.0092	mg/Kg	1	27-May-2020 04:25
Methyl tert-butyl ether	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:25
o-Xylene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:25
Toluene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:25
Xylenes, Total	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:25
<i>Surr: 1,2-Dichloroethane-d4</i>	91.3		70-126	%REC	1	27-May-2020 04:25
<i>Surr: 4-Bromofluorobenzene</i>	97.3		70-130	%REC	1	27-May-2020 04:25
<i>Surr: Dibromofluoromethane</i>	91.6		70-130	%REC	1	27-May-2020 04:25
<i>Surr: Toluene-d8</i>	103		70-130	%REC	1	27-May-2020 04:25
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 41		41	mg/Kg	1	22-May-2020 22:43
>nC12 to nC28	< 41		41	mg/Kg	1	22-May-2020 22:43
>nC28 to nC35	< 41		41	mg/Kg	1	22-May-2020 22:43
Total Petroleum Hydrocarbon	< 41		41	mg/Kg	1	22-May-2020 22:43
<i>Surr: 2-Fluorobiphenyl</i>	82.8		70-130	%REC	1	22-May-2020 22:43
<i>Surr: Trifluoromethyl benzene</i>	92.7		70-130	%REC	1	22-May-2020 22:43
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	13.7		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-10 (4-8)
 Collection Date: 20-May-2020 12:35

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-04
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:50
Ethylbenzene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:50
m,p-Xylene	< 0.0093		0.0093	mg/Kg	1	27-May-2020 04:50
Methyl tert-butyl ether	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:50
o-Xylene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:50
Toluene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:50
Xylenes, Total	< 0.0046		0.0046	mg/Kg	1	27-May-2020 04:50
<i>Surr: 1,2-Dichloroethane-d4</i>	92.8		70-126	%REC	1	27-May-2020 04:50
<i>Surr: 4-Bromofluorobenzene</i>	97.6		70-130	%REC	1	27-May-2020 04:50
<i>Surr: Dibromofluoromethane</i>	93.0		70-130	%REC	1	27-May-2020 04:50
<i>Surr: Toluene-d8</i>	103		70-130	%REC	1	27-May-2020 04:50
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 42		42	mg/Kg	1	22-May-2020 23:12
>nC12 to nC28	< 42		42	mg/Kg	1	22-May-2020 23:12
>nC28 to nC35	< 42		42	mg/Kg	1	22-May-2020 23:12
Total Petroleum Hydrocarbon	< 42		42	mg/Kg	1	22-May-2020 23:12
<i>Surr: 2-Fluorobiphenyl</i>	80.6		70-130	%REC	1	22-May-2020 23:12
<i>Surr: Trifluoromethyl benzene</i>	91.1		70-130	%REC	1	22-May-2020 23:12
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	17.6		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-11 (8-12)
 Collection Date: 20-May-2020 13:51

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-05
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 05:15
Ethylbenzene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 05:15
m,p-Xylene	< 0.0092		0.0092	mg/Kg	1	27-May-2020 05:15
Methyl tert-butyl ether	< 0.0046		0.0046	mg/Kg	1	27-May-2020 05:15
o-Xylene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 05:15
Toluene	< 0.0046		0.0046	mg/Kg	1	27-May-2020 05:15
Xylenes, Total	< 0.0046		0.0046	mg/Kg	1	27-May-2020 05:15
<i>Surr: 1,2-Dichloroethane-d4</i>	93.1		70-126	%REC	1	27-May-2020 05:15
<i>Surr: 4-Bromofluorobenzene</i>	98.4		70-130	%REC	1	27-May-2020 05:15
<i>Surr: Dibromofluoromethane</i>	93.1		70-130	%REC	1	27-May-2020 05:15
<i>Surr: Toluene-d8</i>	103		70-130	%REC	1	27-May-2020 05:15
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 43		43	mg/Kg	1	23-May-2020 00:39
>nC12 to nC28	< 43		43	mg/Kg	1	23-May-2020 00:39
>nC28 to nC35	< 43		43	mg/Kg	1	23-May-2020 00:39
Total Petroleum Hydrocarbon	< 43		43	mg/Kg	1	23-May-2020 00:39
<i>Surr: 2-Fluorobiphenyl</i>	76.6		70-130	%REC	1	23-May-2020 00:39
<i>Surr: Trifluoromethyl benzene</i>	93.1		70-130	%REC	1	23-May-2020 00:39
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	19.1		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-14 (4-8)
 Collection Date: 20-May-2020 13:00

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-06
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 05:40
Ethylbenzene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 05:40
m,p-Xylene	< 0.0084		0.0084	mg/Kg	1	27-May-2020 05:40
Methyl tert-butyl ether	< 0.0042		0.0042	mg/Kg	1	27-May-2020 05:40
o-Xylene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 05:40
Toluene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 05:40
Xylenes, Total	< 0.0042		0.0042	mg/Kg	1	27-May-2020 05:40
<i>Surr: 1,2-Dichloroethane-d4</i>	89.8		70-126	%REC	1	27-May-2020 05:40
<i>Surr: 4-Bromofluorobenzene</i>	97.1		70-130	%REC	1	27-May-2020 05:40
<i>Surr: Dibromofluoromethane</i>	94.1		70-130	%REC	1	27-May-2020 05:40
<i>Surr: Toluene-d8</i>	104		70-130	%REC	1	27-May-2020 05:40
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 43		43	mg/Kg	1	23-May-2020 01:09
>nC12 to nC28	< 43		43	mg/Kg	1	23-May-2020 01:09
>nC28 to nC35	< 43		43	mg/Kg	1	23-May-2020 01:09
Total Petroleum Hydrocarbon	< 43		43	mg/Kg	1	23-May-2020 01:09
<i>Surr: 2-Fluorobiphenyl</i>	70.8		70-130	%REC	1	23-May-2020 01:09
<i>Surr: Trifluoromethyl benzene</i>	88.7		70-130	%REC	1	23-May-2020 01:09
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	20.9		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-1 (0-4)
 Collection Date: 20-May-2020 09:16

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-07
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C			Method:SW8260		Analyst: WLR	
Benzene	0.048		0.0045	mg/Kg	1	27-May-2020 06:05
Ethylbenzene	1.9		0.22	mg/Kg	50	27-May-2020 15:38
m,p-Xylene	5.3		0.45	mg/Kg	50	27-May-2020 15:38
Methyl tert-butyl ether	< 0.0045		0.0045	mg/Kg	1	27-May-2020 06:05
o-Xylene	0.45		0.22	mg/Kg	50	27-May-2020 15:38
Toluene	0.0084		0.0045	mg/Kg	1	27-May-2020 06:05
Xylenes, Total	5.8		0.22	mg/Kg	50	27-May-2020 15:38
Surr: 1,2-Dichloroethane-d4	88.6		70-126	%REC	1	27-May-2020 06:05
Surr: 1,2-Dichloroethane-d4	85.5		70-126	%REC	50	27-May-2020 15:38
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	27-May-2020 06:05
Surr: 4-Bromofluorobenzene	97.8		70-130	%REC	50	27-May-2020 15:38
Surr: Dibromofluoromethane	92.9		70-130	%REC	1	27-May-2020 06:05
Surr: Dibromofluoromethane	83.5		70-130	%REC	50	27-May-2020 15:38
Surr: Toluene-d8	109		70-130	%REC	1	27-May-2020 06:05
Surr: Toluene-d8	98.1		70-130	%REC	50	27-May-2020 15:38
TEXAS TPH BY TX1005			Method:TX1005		Prep:TX1005PR / 22-May-2020 Analyst: MBG	
nC6 to nC12	220		47	mg/Kg	1	23-May-2020 01:38
>nC12 to nC28	200		47	mg/Kg	1	23-May-2020 01:38
>nC28 to nC35	< 47		47	mg/Kg	1	23-May-2020 01:38
Total Petroleum Hydrocarbon	420		47	mg/Kg	1	23-May-2020 01:38
Surr: 2-Fluorobiphenyl	93.4		70-130	%REC	1	23-May-2020 01:38
Surr: Trifluoromethyl benzene	84.8		70-130	%REC	1	23-May-2020 01:38
MOISTURE			Method:SW3550		Analyst: JAC	
Percent Moisture	10.9		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-2 (0-4)
 Collection Date: 20-May-2020 09:45

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-08
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0041		0.0041	mg/Kg	1	27-May-2020 06:29
Ethylbenzene	0.019		0.0041	mg/Kg	1	27-May-2020 06:29
m,p-Xylene	0.0089		0.0082	mg/Kg	1	27-May-2020 06:29
Methyl tert-butyl ether	< 0.0041		0.0041	mg/Kg	1	27-May-2020 06:29
o-Xylene	< 0.0041		0.0041	mg/Kg	1	27-May-2020 06:29
Toluene	< 0.0041		0.0041	mg/Kg	1	27-May-2020 06:29
Xylenes, Total	0.011		0.0041	mg/Kg	1	27-May-2020 06:29
<i>Surr: 1,2-Dichloroethane-d4</i>	89.6		70-126	%REC	1	27-May-2020 06:29
<i>Surr: 4-Bromofluorobenzene</i>	109		70-130	%REC	1	27-May-2020 06:29
<i>Surr: Dibromofluoromethane</i>	90.5		70-130	%REC	1	27-May-2020 06:29
<i>Surr: Toluene-d8</i>	110		70-130	%REC	1	27-May-2020 06:29
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	720		52	mg/Kg	1	23-May-2020 02:07
>nC12 to nC28	350		52	mg/Kg	1	23-May-2020 02:07
>nC28 to nC35	< 52		52	mg/Kg	1	23-May-2020 02:07
Total Petroleum Hydrocarbon	1,070		52	mg/Kg	1	23-May-2020 02:07
<i>Surr: 2-Fluorobiphenyl</i>	101		70-130	%REC	1	23-May-2020 02:07
<i>Surr: Trifluoromethyl benzene</i>	92.5		70-130	%REC	1	23-May-2020 02:07
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	12.1		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-3 (0-4)
 Collection Date: 20-May-2020 09:57

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-09
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 09:49
Ethylbenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 09:49
m,p-Xylene	< 0.0080		0.0080	mg/Kg	1	27-May-2020 09:49
Methyl tert-butyl ether	< 0.0040		0.0040	mg/Kg	1	27-May-2020 09:49
o-Xylene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 09:49
Toluene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 09:49
Xylenes, Total	< 0.0040		0.0040	mg/Kg	1	27-May-2020 09:49
Surr: 1,2-Dichloroethane-d4	92.9		70-126	%REC	1	27-May-2020 09:49
Surr: 4-Bromofluorobenzene	97.9		70-130	%REC	1	27-May-2020 09:49
Surr: Dibromofluoromethane	92.9		70-130	%REC	1	27-May-2020 09:49
Surr: Toluene-d8	102		70-130	%REC	1	27-May-2020 09:49
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 39		39	mg/Kg	1	23-May-2020 02:36
>nC12 to nC28	< 39		39	mg/Kg	1	23-May-2020 02:36
>nC28 to nC35	< 39		39	mg/Kg	1	23-May-2020 02:36
Total Petroleum Hydrocarbon	< 39		39	mg/Kg	1	23-May-2020 02:36
Surr: 2-Fluorobiphenyl	70.1		70-130	%REC	1	23-May-2020 02:36
Surr: Trifluoromethyl benzene	80.0		70-130	%REC	1	23-May-2020 02:36
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	10.4		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-4 (4-8)
 Collection Date: 20-May-2020 10:24

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-10
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 10:14
Ethylbenzene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 10:14
m,p-Xylene	< 0.0085		0.0085	mg/Kg	1	27-May-2020 10:14
Methyl tert-butyl ether	< 0.0042		0.0042	mg/Kg	1	27-May-2020 10:14
o-Xylene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 10:14
Toluene	< 0.0042		0.0042	mg/Kg	1	27-May-2020 10:14
Xylenes, Total	< 0.0042		0.0042	mg/Kg	1	27-May-2020 10:14
<i>Surr: 1,2-Dichloroethane-d4</i>	93.6		70-126	%REC	1	27-May-2020 10:14
<i>Surr: 4-Bromofluorobenzene</i>	95.8		70-130	%REC	1	27-May-2020 10:14
<i>Surr: Dibromofluoromethane</i>	92.7		70-130	%REC	1	27-May-2020 10:14
<i>Surr: Toluene-d8</i>	103		70-130	%REC	1	27-May-2020 10:14
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 39		39	mg/Kg	1	27-May-2020 10:15
>nC12 to nC28	< 39		39	mg/Kg	1	27-May-2020 10:15
>nC28 to nC35	< 39		39	mg/Kg	1	27-May-2020 10:15
Total Petroleum Hydrocarbon	< 39		39	mg/Kg	1	27-May-2020 10:15
<i>Surr: 2-Fluorobiphenyl</i>	72.0		70-130	%REC	1	27-May-2020 10:15
<i>Surr: Trifluoromethyl benzene</i>	80.0		70-130	%REC	1	27-May-2020 10:15
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	17.4		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-5 (4-8)
 Collection Date: 20-May-2020 10:44

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-11
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
1,1,1-Trichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,1,2,2-Tetrachloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,1,2-Trichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,1-Dichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,1-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,2,4-Trichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,2-Dibromo-3-chloropropane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,2-Dibromoethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,2-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,2-Dichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,2-Dichloropropane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,3-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
1,4-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
2-Butanone	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
2-Hexanone	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
4-Methyl-2-pentanone	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
Acetone	< 0.018		0.018	mg/Kg	1	27-May-2020 17:20
Benzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Bromodichloromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Bromoform	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Bromomethane	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
Carbon disulfide	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
Carbon tetrachloride	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Chlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Chloroethane	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
Chloroform	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Chloromethane	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
cis-1,2-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
cis-1,3-Dichloropropene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Cyclohexane	< 0.0044	n	0.0044	mg/Kg	1	27-May-2020 17:20
Dibromochloromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Dichlorodifluoromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Ethylbenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Isopropylbenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
m,p-Xylene	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
Methyl acetate	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Methyl tert-butyl ether	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Methylcyclohexane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-5 (4-8)
 Collection Date: 20-May-2020 10:44

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-11
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Methylene chloride	< 0.0089		0.0089	mg/Kg	1	27-May-2020 17:20
o-Xylene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Styrene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Tetrachloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Toluene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
trans-1,2-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
trans-1,3-Dichloropropene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Trichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Trichlorofluoromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Vinyl chloride	< 0.0018		0.0018	mg/Kg	1	27-May-2020 17:20
Xylenes, Total	< 0.0044		0.0044	mg/Kg	1	27-May-2020 17:20
Surr: 1,2-Dichloroethane-d4	93.5		70-126	%REC	1	27-May-2020 17:20
Surr: 4-Bromofluorobenzene	98.6		70-130	%REC	1	27-May-2020 17:20
Surr: Dibromofluoromethane	93.5		70-130	%REC	1	27-May-2020 17:20
Surr: Toluene-d8	103		70-130	%REC	1	27-May-2020 17:20
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 43		43	mg/Kg	1	27-May-2020 10:45
>nC12 to nC28	< 43		43	mg/Kg	1	27-May-2020 10:45
>nC28 to nC35	< 43		43	mg/Kg	1	27-May-2020 10:45
Total Petroleum Hydrocarbon	< 43		43	mg/Kg	1	27-May-2020 10:45
Surr: 2-Fluorobiphenyl	73.1		70-130	%REC	1	27-May-2020 10:45
Surr: Trifluoromethyl benzene	85.6		70-130	%REC	1	27-May-2020 10:45
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	20.0		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-6 (4-8)
 Collection Date: 20-May-2020 11:08

ANALYTICAL REPORT

WorkOrder:HS20050835
 Lab ID:HS20050835-12
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
1,1,1-Trichloroethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,1,2,2-Tetrachloroethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,1,2-Trichloroethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,1-Dichloroethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,1-Dichloroethene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,2,4-Trichlorobenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,2-Dibromo-3-chloropropane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,2-Dibromoethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,2-Dichlorobenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,2-Dichloroethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,2-Dichloropropane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,3-Dichlorobenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
1,4-Dichlorobenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
2-Butanone	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
2-Hexanone	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
4-Methyl-2-pentanone	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
Acetone	0.029		0.016	mg/Kg	1	27-May-2020 17:45
Benzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Bromodichloromethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Bromoform	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Bromomethane	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
Carbon disulfide	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
Carbon tetrachloride	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Chlorobenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Chloroethane	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
Chloroform	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Chloromethane	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
cis-1,2-Dichloroethene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
cis-1,3-Dichloropropene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Cyclohexane	< 0.0040	n	0.0040	mg/Kg	1	27-May-2020 17:45
Dibromochloromethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Dichlorodifluoromethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Ethylbenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Isopropylbenzene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
m,p-Xylene	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
Methyl acetate	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Methyl tert-butyl ether	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Methylcyclohexane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-6 (4-8)
 Collection Date: 20-May-2020 11:08

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-12
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Methylene chloride	< 0.0081		0.0081	mg/Kg	1	27-May-2020 17:45
o-Xylene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Styrene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Tetrachloroethene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Toluene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
trans-1,2-Dichloroethene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
trans-1,3-Dichloropropene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Trichloroethene	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Trichlorofluoromethane	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Vinyl chloride	< 0.0016		0.0016	mg/Kg	1	27-May-2020 17:45
Xylenes, Total	< 0.0040		0.0040	mg/Kg	1	27-May-2020 17:45
Surr: 1,2-Dichloroethane-d4	94.6		70-126	%REC	1	27-May-2020 17:45
Surr: 4-Bromofluorobenzene	97.9		70-130	%REC	1	27-May-2020 17:45
Surr: Dibromofluoromethane	93.1		70-130	%REC	1	27-May-2020 17:45
Surr: Toluene-d8	104		70-130	%REC	1	27-May-2020 17:45
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 44		44	mg/Kg	1	27-May-2020 11:14
>nC12 to nC28	< 44		44	mg/Kg	1	27-May-2020 11:14
>nC28 to nC35	< 44		44	mg/Kg	1	27-May-2020 11:14
Total Petroleum Hydrocarbon	< 44		44	mg/Kg	1	27-May-2020 11:14
Surr: 2-Fluorobiphenyl	73.0		70-130	%REC	1	27-May-2020 11:14
Surr: Trifluoromethyl benzene	85.9		70-130	%REC	1	27-May-2020 11:14
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	19.6		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-1 (8-12)
 Collection Date: 20-May-2020 09:34

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-13
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP
Benzene	0.59		0.0050	mg/L	5	23-May-2020 22:39
Ethylbenzene	0.11		0.0050	mg/L	5	23-May-2020 22:39
m,p-Xylene	0.15		0.010	mg/L	5	23-May-2020 22:39
Methyl tert-butyl ether	0.25		0.0050	mg/L	5	23-May-2020 22:39
o-Xylene	0.0066		0.0050	mg/L	5	23-May-2020 22:39
Toluene	0.023		0.0050	mg/L	5	23-May-2020 22:39
Xylenes, Total	0.15		0.0050	mg/L	5	23-May-2020 22:39
Surr: 1,2-Dichloroethane-d4	85.1		70-126	%REC	5	23-May-2020 22:39
Surr: 4-Bromofluorobenzene	99.4		81-113	%REC	5	23-May-2020 22:39
Surr: Dibromofluoromethane	90.6		77-123	%REC	5	23-May-2020 22:39
Surr: Toluene-d8	95.9		82-127	%REC	5	23-May-2020 22:39
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	2.7		0.49	mg/L	1	23-May-2020 03:35
>nC12 to nC28	< 0.49		0.49	mg/L	1	23-May-2020 03:35
>nC28 to nC35	< 0.49		0.49	mg/L	1	23-May-2020 03:35
Total Petroleum Hydrocarbon	2.70		0.49	mg/L	1	23-May-2020 03:35
Surr: 2-Fluorobiphenyl	90.7		70-130	%REC	1	23-May-2020 03:35
Surr: Trifluoromethyl benzene	97.2		70-130	%REC	1	23-May-2020 03:35

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-5 (8-12)
 Collection Date: 20-May-2020 10:51

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-14
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
1,1,1-Trichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,1,2,2-Tetrachloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,1,2-Trichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,1-Dichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,1-Dichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,2,4-Trichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,2-Dibromo-3-chloropropane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,2-Dibromoethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,2-Dichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,2-Dichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,2-Dichloropropane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,3-Dichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
1,4-Dichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
2-Butanone	< 0.0020		0.0020	mg/L	1	26-May-2020 11:51
2-Hexanone	< 0.0020		0.0020	mg/L	1	26-May-2020 11:51
4-Methyl-2-pentanone	< 0.0020		0.0020	mg/L	1	26-May-2020 11:51
Acetone	< 0.0020		0.0020	mg/L	1	26-May-2020 11:51
Benzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Bromodichloromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Bromoform	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Bromomethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Carbon disulfide	< 0.0020		0.0020	mg/L	1	26-May-2020 11:51
Carbon tetrachloride	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Chlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Chloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Chloroform	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Chloromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
cis-1,2-Dichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
cis-1,3-Dichloropropene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Cyclohexane	< 0.0010	n	0.0010	mg/L	1	26-May-2020 11:51
Dibromochloromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Dichlorodifluoromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Isopropylbenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
m,p-Xylene	< 0.0020		0.0020	mg/L	1	26-May-2020 11:51
Methyl acetate	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Methyl tert-butyl ether	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Methylcyclohexane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-5 (8-12)
 Collection Date: 20-May-2020 10:51

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-14
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP
Methylene chloride	< 0.0020		0.0020	mg/L	1	26-May-2020 11:51
o-Xylene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Styrene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Tetrachloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Toluene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
trans-1,2-Dichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
trans-1,3-Dichloropropene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Trichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Trichlorofluoromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Vinyl chloride	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Xylenes, Total	< 0.0010		0.0010	mg/L	1	26-May-2020 11:51
Surr: 1,2-Dichloroethane-d4	88.7		70-126	%REC	1	26-May-2020 11:51
Surr: 4-Bromofluorobenzene	96.0		81-113	%REC	1	26-May-2020 11:51
Surr: Dibromofluoromethane	96.1		77-123	%REC	1	26-May-2020 11:51
Surr: Toluene-d8	97.0		82-127	%REC	1	26-May-2020 11:51
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 0.49		0.49	mg/L	1	23-May-2020 04:04
>nC12 to nC28	< 0.49		0.49	mg/L	1	23-May-2020 04:04
>nC28 to nC35	< 0.49		0.49	mg/L	1	23-May-2020 04:04
Total Petroleum Hydrocarbon	< 0.49		0.49	mg/L	1	23-May-2020 04:04
Surr: 2-Fluorobiphenyl	85.0		70-130	%REC	1	23-May-2020 04:04
Surr: Trifluoromethyl benzene	99.7		70-130	%REC	1	23-May-2020 04:04

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-8 (8-12)
 Collection Date: 20-May-2020 11:58

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-15
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:58
Ethylbenzene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:58
m,p-Xylene	< 0.0020		0.0020	mg/L	1	23-May-2020 20:58
Methyl tert-butyl ether	< 0.0010		0.0010	mg/L	1	23-May-2020 20:58
o-Xylene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:58
Toluene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:58
Xylenes, Total	< 0.0010		0.0010	mg/L	1	23-May-2020 20:58
<i>Surr: 1,2-Dichloroethane-d4</i>	88.1		70-126	%REC	1	23-May-2020 20:58
<i>Surr: 4-Bromofluorobenzene</i>	95.3		81-113	%REC	1	23-May-2020 20:58
<i>Surr: Dibromofluoromethane</i>	90.7		77-123	%REC	1	23-May-2020 20:58
<i>Surr: Toluene-d8</i>	97.3		82-127	%REC	1	23-May-2020 20:58
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 0.49		0.49	mg/L	1	23-May-2020 04:33
>nC12 to nC28	< 0.49		0.49	mg/L	1	23-May-2020 04:33
>nC28 to nC35	< 0.49		0.49	mg/L	1	23-May-2020 04:33
Total Petroleum Hydrocarbon	< 0.49		0.49	mg/L	1	23-May-2020 04:33
<i>Surr: 2-Fluorobiphenyl</i>	85.4		70-130	%REC	1	23-May-2020 04:33
<i>Surr: Trifluoromethyl benzene</i>	98.2		70-130	%REC	1	23-May-2020 04:33

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-13 (0-4)
 Collection Date: 21-May-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-16
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 10:39
Ethylbenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 10:39
m,p-Xylene	< 0.0088		0.0088	mg/Kg	1	27-May-2020 10:39
Methyl tert-butyl ether	< 0.0044		0.0044	mg/Kg	1	27-May-2020 10:39
o-Xylene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 10:39
Toluene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 10:39
Xylenes, Total	< 0.0044		0.0044	mg/Kg	1	27-May-2020 10:39
<i>Surr: 1,2-Dichloroethane-d4</i>	93.7		70-126	%REC	1	27-May-2020 10:39
<i>Surr: 4-Bromofluorobenzene</i>	98.0		70-130	%REC	1	27-May-2020 10:39
<i>Surr: Dibromofluoromethane</i>	91.9		70-130	%REC	1	27-May-2020 10:39
<i>Surr: Toluene-d8</i>	104		70-130	%REC	1	27-May-2020 10:39
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 46		46	mg/Kg	1	27-May-2020 11:43
>nC12 to nC28	< 46		46	mg/Kg	1	27-May-2020 11:43
>nC28 to nC35	< 46		46	mg/Kg	1	27-May-2020 11:43
Total Petroleum Hydrocarbon	< 46		46	mg/Kg	1	27-May-2020 11:43
<i>Surr: 2-Fluorobiphenyl</i>	79.4		70-130	%REC	1	27-May-2020 11:43
<i>Surr: Trifluoromethyl benzene</i>	92.2		70-130	%REC	1	27-May-2020 11:43
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	18.3		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-15 (8-12)
 Collection Date: 21-May-2020 09:26

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-17
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0041		0.0041	mg/Kg	1	27-May-2020 11:04
Ethylbenzene	< 0.0041		0.0041	mg/Kg	1	27-May-2020 11:04
m,p-Xylene	< 0.0082		0.0082	mg/Kg	1	27-May-2020 11:04
Methyl tert-butyl ether	< 0.0041		0.0041	mg/Kg	1	27-May-2020 11:04
o-Xylene	< 0.0041		0.0041	mg/Kg	1	27-May-2020 11:04
Toluene	< 0.0041		0.0041	mg/Kg	1	27-May-2020 11:04
Xylenes, Total	< 0.0041		0.0041	mg/Kg	1	27-May-2020 11:04
<i>Surr: 1,2-Dichloroethane-d4</i>	92.3		70-126	%REC	1	27-May-2020 11:04
<i>Surr: 4-Bromofluorobenzene</i>	98.6		70-130	%REC	1	27-May-2020 11:04
<i>Surr: Dibromofluoromethane</i>	91.4		70-130	%REC	1	27-May-2020 11:04
<i>Surr: Toluene-d8</i>	103		70-130	%REC	1	27-May-2020 11:04
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 46		46	mg/Kg	1	27-May-2020 12:12
>nC12 to nC28	< 46		46	mg/Kg	1	27-May-2020 12:12
>nC28 to nC35	< 46		46	mg/Kg	1	27-May-2020 12:12
Total Petroleum Hydrocarbon	< 46		46	mg/Kg	1	27-May-2020 12:12
<i>Surr: 2-Fluorobiphenyl</i>	75.0		70-130	%REC	1	27-May-2020 12:12
<i>Surr: Trifluoromethyl benzene</i>	87.0		70-130	%REC	1	27-May-2020 12:12
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	18.6		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-15 (8-12) Water
 Collection Date: 21-May-2020 09:26

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-18
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	23-May-2020 21:24
Ethylbenzene	< 0.0010		0.0010	mg/L	1	23-May-2020 21:24
m,p-Xylene	< 0.0020		0.0020	mg/L	1	23-May-2020 21:24
Methyl tert-butyl ether	< 0.0010		0.0010	mg/L	1	23-May-2020 21:24
o-Xylene	< 0.0010		0.0010	mg/L	1	23-May-2020 21:24
Toluene	< 0.0010		0.0010	mg/L	1	23-May-2020 21:24
Xylenes, Total	< 0.0010		0.0010	mg/L	1	23-May-2020 21:24
Surr: 1,2-Dichloroethane-d4	86.5		70-126	%REC	1	23-May-2020 21:24
Surr: 4-Bromofluorobenzene	97.4		81-113	%REC	1	23-May-2020 21:24
Surr: Dibromofluoromethane	90.3		77-123	%REC	1	23-May-2020 21:24
Surr: Toluene-d8	99.1		82-127	%REC	1	23-May-2020 21:24
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 0.49		0.49	mg/L	1	23-May-2020 05:02
>nC12 to nC28	< 0.49		0.49	mg/L	1	23-May-2020 05:02
>nC28 to nC35	< 0.49		0.49	mg/L	1	23-May-2020 05:02
Total Petroleum Hydrocarbon	< 0.49		0.49	mg/L	1	23-May-2020 05:02
Surr: 2-Fluorobiphenyl	82.6		70-130	%REC	1	23-May-2020 05:02
Surr: Trifluoromethyl benzene	94.0		70-130	%REC	1	23-May-2020 05:02

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-16 (4-8)
 Collection Date: 21-May-2020 09:51

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-19
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:07
Ethylbenzene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:07
m,p-Xylene	< 0.0075		0.0075	mg/Kg	1	28-May-2020 04:07
Methyl tert-butyl ether	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:07
o-Xylene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:07
Toluene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:07
Xylenes, Total	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:07
Surr: 1,2-Dichloroethane-d4	99.0		70-126	%REC	1	28-May-2020 04:07
Surr: 4-Bromofluorobenzene	97.9		70-130	%REC	1	28-May-2020 04:07
Surr: Dibromofluoromethane	94.5		70-130	%REC	1	28-May-2020 04:07
Surr: Toluene-d8	104		70-130	%REC	1	28-May-2020 04:07
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 40		40	mg/Kg	1	27-May-2020 12:41
>nC12 to nC28	< 40		40	mg/Kg	1	27-May-2020 12:41
>nC28 to nC35	< 40		40	mg/Kg	1	27-May-2020 12:41
Total Petroleum Hydrocarbon	< 40		40	mg/Kg	1	27-May-2020 12:41
Surr: 2-Fluorobiphenyl	71.4		70-130	%REC	1	27-May-2020 12:41
Surr: Trifluoromethyl benzene	78.9		70-130	%REC	1	27-May-2020 12:41
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	18.6		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-17 (4-8)
 Collection Date: 21-May-2020 10:07

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-20
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:32
Ethylbenzene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:32
m,p-Xylene	< 0.0075		0.0075	mg/Kg	1	28-May-2020 04:32
Methyl tert-butyl ether	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:32
o-Xylene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:32
Toluene	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:32
Xylenes, Total	< 0.0038		0.0038	mg/Kg	1	28-May-2020 04:32
Surr: 1,2-Dichloroethane-d4	94.9		70-126	%REC	1	28-May-2020 04:32
Surr: 4-Bromofluorobenzene	97.3		70-130	%REC	1	28-May-2020 04:32
Surr: Dibromofluoromethane	92.3		70-130	%REC	1	28-May-2020 04:32
Surr: Toluene-d8	106		70-130	%REC	1	28-May-2020 04:32
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 39		39	mg/Kg	1	27-May-2020 13:10
>nC12 to nC28	< 39		39	mg/Kg	1	27-May-2020 13:10
>nC28 to nC35	< 39		39	mg/Kg	1	27-May-2020 13:10
Total Petroleum Hydrocarbon	< 39		39	mg/Kg	1	27-May-2020 13:10
Surr: 2-Fluorobiphenyl	73.8		70-130	%REC	1	27-May-2020 13:10
Surr: Trifluoromethyl benzene	87.3		70-130	%REC	1	27-May-2020 13:10
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	19.0		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-18 (4-8)
 Collection Date: 21-May-2020 10:26

ANALYTICAL REPORT

WorkOrder:HS20050835
 Lab ID:HS20050835-21
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
1,1,1-Trichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,1,2,2-Tetrachloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,1,2-Trichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,1-Dichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,1-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,2,4-Trichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,2-Dibromo-3-chloropropane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,2-Dibromoethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,2-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,2-Dichloroethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,2-Dichloropropane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,3-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
1,4-Dichlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
2-Butanone	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
2-Hexanone	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
4-Methyl-2-pentanone	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
Acetone	< 0.018		0.018	mg/Kg	1	27-May-2020 18:10
Benzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Bromodichloromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Bromoform	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Bromomethane	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
Carbon disulfide	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
Carbon tetrachloride	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Chlorobenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Chloroethane	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
Chloroform	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Chloromethane	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
cis-1,2-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
cis-1,3-Dichloropropene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Cyclohexane	< 0.0044	n	0.0044	mg/Kg	1	27-May-2020 18:10
Dibromochloromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Dichlorodifluoromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Ethylbenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Isopropylbenzene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
m,p-Xylene	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
Methyl acetate	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Methyl tert-butyl ether	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Methylcyclohexane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-18 (4-8)
 Collection Date: 21-May-2020 10:26

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-21
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Methylene chloride	< 0.0089		0.0089	mg/Kg	1	27-May-2020 18:10
o-Xylene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Styrene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Tetrachloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Toluene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
trans-1,2-Dichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
trans-1,3-Dichloropropene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Trichloroethene	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Trichlorofluoromethane	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Vinyl chloride	< 0.0018		0.0018	mg/Kg	1	27-May-2020 18:10
Xylenes, Total	< 0.0044		0.0044	mg/Kg	1	27-May-2020 18:10
Surr: 1,2-Dichloroethane-d4	92.4		70-126	%REC	1	27-May-2020 18:10
Surr: 4-Bromofluorobenzene	97.0		70-130	%REC	1	27-May-2020 18:10
Surr: Dibromofluoromethane	93.0		70-130	%REC	1	27-May-2020 18:10
Surr: Toluene-d8	103		70-130	%REC	1	27-May-2020 18:10
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 45		45	mg/Kg	1	27-May-2020 13:39
>nC12 to nC28	< 45		45	mg/Kg	1	27-May-2020 13:39
>nC28 to nC35	< 45		45	mg/Kg	1	27-May-2020 13:39
Total Petroleum Hydrocarbon	< 45		45	mg/Kg	1	27-May-2020 13:39
Surr: 2-Fluorobiphenyl	75.6		70-130	%REC	1	27-May-2020 13:39
Surr: Trifluoromethyl benzene	88.0		70-130	%REC	1	27-May-2020 13:39
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	19.2		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-18 (8-12) Water
 Collection Date: 21-May-2020 11:32

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-22
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
1,1,1-Trichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,1,2,2-Tetrachloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,1,2-Trichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,1-Dichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,1-Dichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,2,4-Trichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,2-Dibromo-3-chloropropane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,2-Dibromoethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,2-Dichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,2-Dichloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,2-Dichloropropane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,3-Dichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
1,4-Dichlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
2-Butanone	< 0.0020		0.0020	mg/L	1	26-May-2020 12:14
2-Hexanone	< 0.0020		0.0020	mg/L	1	26-May-2020 12:14
4-Methyl-2-pentanone	< 0.0020		0.0020	mg/L	1	26-May-2020 12:14
Acetone	< 0.0020		0.0020	mg/L	1	26-May-2020 12:14
Benzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Bromodichloromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Bromoform	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Bromomethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Carbon disulfide	< 0.0020		0.0020	mg/L	1	26-May-2020 12:14
Carbon tetrachloride	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Chlorobenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Chloroethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Chloroform	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Chloromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
cis-1,2-Dichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
cis-1,3-Dichloropropene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Cyclohexane	< 0.0010	n	0.0010	mg/L	1	26-May-2020 12:14
Dibromochloromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Dichlorodifluoromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Isopropylbenzene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
m,p-Xylene	< 0.0020		0.0020	mg/L	1	26-May-2020 12:14
Methyl acetate	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Methyl tert-butyl ether	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Methylcyclohexane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-18 (8-12) Water
 Collection Date: 21-May-2020 11:32

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-22
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP
Methylene chloride	< 0.0020		0.0020	mg/L	1	26-May-2020 12:14
o-Xylene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Styrene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Tetrachloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Toluene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
trans-1,2-Dichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
trans-1,3-Dichloropropene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Trichloroethene	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Trichlorofluoromethane	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Vinyl chloride	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Xylenes, Total	< 0.0010		0.0010	mg/L	1	26-May-2020 12:14
Surr: 1,2-Dichloroethane-d4	83.7		70-126	%REC	1	26-May-2020 12:14
Surr: 4-Bromofluorobenzene	96.7		81-113	%REC	1	26-May-2020 12:14
Surr: Dibromofluoromethane	93.9		77-123	%REC	1	26-May-2020 12:14
Surr: Toluene-d8	97.3		82-127	%REC	1	26-May-2020 12:14
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 0.49		0.49	mg/L	1	23-May-2020 05:31
>nC12 to nC28	< 0.49		0.49	mg/L	1	23-May-2020 05:31
>nC28 to nC35	< 0.49		0.49	mg/L	1	23-May-2020 05:31
Total Petroleum Hydrocarbon	< 0.49		0.49	mg/L	1	23-May-2020 05:31
Surr: 2-Fluorobiphenyl	84.1		70-130	%REC	1	23-May-2020 05:31
Surr: Trifluoromethyl benzene	95.0		70-130	%REC	1	23-May-2020 05:31

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-19 (0-4)
 Collection Date: 21-May-2020 10:51

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-23
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
1,1,1-Trichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,1,2,2-Tetrachloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,1,2-Trichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,1-Dichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,1-Dichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,2,4-Trichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,2-Dibromo-3-chloropropane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,2-Dibromoethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,2-Dichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,2-Dichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,2-Dichloropropane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,3-Dichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
1,4-Dichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
2-Butanone	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
2-Hexanone	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
4-Methyl-2-pentanone	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
Acetone	< 0.019		0.019	mg/Kg	1	27-May-2020 18:35
Benzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Bromodichloromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Bromoform	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Bromomethane	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
Carbon disulfide	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
Carbon tetrachloride	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Chlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Chloroethane	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
Chloroform	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Chloromethane	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
cis-1,2-Dichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
cis-1,3-Dichloropropene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Cyclohexane	< 0.0048	n	0.0048	mg/Kg	1	27-May-2020 18:35
Dibromochloromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Dichlorodifluoromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Isopropylbenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
m,p-Xylene	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
Methyl acetate	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Methyl tert-butyl ether	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Methylcyclohexane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-19 (0-4)
 Collection Date: 21-May-2020 10:51

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-23
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C			Method:SW8260		Analyst: WLR	
Methylene chloride	< 0.0097		0.0097	mg/Kg	1	27-May-2020 18:35
o-Xylene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Styrene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Tetrachloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Toluene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
trans-1,2-Dichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
trans-1,3-Dichloropropene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Trichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Trichlorofluoromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Vinyl chloride	< 0.0019		0.0019	mg/Kg	1	27-May-2020 18:35
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	27-May-2020 18:35
Surr: 1,2-Dichloroethane-d4	93.8		70-126	%REC	1	27-May-2020 18:35
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	27-May-2020 18:35
Surr: Dibromofluoromethane	89.9		70-130	%REC	1	27-May-2020 18:35
Surr: Toluene-d8	103		70-130	%REC	1	27-May-2020 18:35
TEXAS TPH BY TX1005			Method:TX1005		Prep:TX1005PR / 26-May-2020 Analyst: MBG	
nC6 to nC12	< 45		45	mg/Kg	1	27-May-2020 09:46
>nC12 to nC28	< 45		45	mg/Kg	1	27-May-2020 09:46
>nC28 to nC35	< 45		45	mg/Kg	1	27-May-2020 09:46
Total Petroleum Hydrocarbon	< 45		45	mg/Kg	1	27-May-2020 09:46
Surr: 2-Fluorobiphenyl	97.7		70-130	%REC	1	27-May-2020 09:46
Surr: Trifluoromethyl benzene	103		70-130	%REC	1	27-May-2020 09:46
MOISTURE			Method:SW3550		Analyst: JAC	
Percent Moisture	20.9		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-20 (0-4)
 Collection Date: 21-May-2020 11:06

ANALYTICAL REPORT

WorkOrder:HS20050835
 Lab ID:HS20050835-24
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
1,1,1-Trichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,1,2,2-Tetrachloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,1,2-Trichlor-1,2,2-trifluoroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,1,2-Trichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,1-Dichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,1-Dichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,2,4-Trichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,2-Dibromo-3-chloropropane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,2-Dibromoethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,2-Dichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,2-Dichloroethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,2-Dichloropropane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,3-Dichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
1,4-Dichlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
2-Butanone	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
2-Hexanone	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
4-Methyl-2-pentanone	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
Acetone	< 0.019		0.019	mg/Kg	1	27-May-2020 19:00
Benzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Bromodichloromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Bromoform	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Bromomethane	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
Carbon disulfide	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
Carbon tetrachloride	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Chlorobenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Chloroethane	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
Chloroform	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Chloromethane	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
cis-1,2-Dichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
cis-1,3-Dichloropropene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Cyclohexane	< 0.0048	n	0.0048	mg/Kg	1	27-May-2020 19:00
Dibromochloromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Dichlorodifluoromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Isopropylbenzene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
m,p-Xylene	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
Methyl acetate	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Methyl tert-butyl ether	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Methylcyclohexane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-20 (0-4)
 Collection Date: 21-May-2020 11:06

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-24
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Methylene chloride	< 0.0096		0.0096	mg/Kg	1	27-May-2020 19:00
o-Xylene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Styrene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Tetrachloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Toluene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
trans-1,2-Dichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
trans-1,3-Dichloropropene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Trichloroethene	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Trichlorofluoromethane	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Vinyl chloride	< 0.0019		0.0019	mg/Kg	1	27-May-2020 19:00
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	27-May-2020 19:00
Surr: 1,2-Dichloroethane-d4	93.1		70-126	%REC	1	27-May-2020 19:00
Surr: 4-Bromofluorobenzene	98.6		70-130	%REC	1	27-May-2020 19:00
Surr: Dibromofluoromethane	92.0		70-130	%REC	1	27-May-2020 19:00
Surr: Toluene-d8	104		70-130	%REC	1	27-May-2020 19:00
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 48		48	mg/Kg	1	27-May-2020 10:15
>nC12 to nC28	< 48		48	mg/Kg	1	27-May-2020 10:15
>nC28 to nC35	< 48		48	mg/Kg	1	27-May-2020 10:15
Total Petroleum Hydrocarbon	< 48		48	mg/Kg	1	27-May-2020 10:15
Surr: 2-Fluorobiphenyl	93.7		70-130	%REC	1	27-May-2020 10:15
Surr: Trifluoromethyl benzene	118		70-130	%REC	1	27-May-2020 10:15
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	21.0		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-23 (8-12)
 Collection Date: 21-May-2020 11:29

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-25
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	28-May-2020 05:22
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	28-May-2020 05:22
m,p-Xylene	< 0.0096		0.0096	mg/Kg	1	28-May-2020 05:22
Methyl tert-butyl ether	< 0.0048		0.0048	mg/Kg	1	28-May-2020 05:22
o-Xylene	< 0.0048		0.0048	mg/Kg	1	28-May-2020 05:22
Toluene	< 0.0048		0.0048	mg/Kg	1	28-May-2020 05:22
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	28-May-2020 05:22
Surr: 1,2-Dichloroethane-d4	96.8		70-126	%REC	1	28-May-2020 05:22
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	28-May-2020 05:22
Surr: Dibromofluoromethane	94.9		70-130	%REC	1	28-May-2020 05:22
Surr: Toluene-d8	107		70-130	%REC	1	28-May-2020 05:22
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 46		46	mg/Kg	1	27-May-2020 10:45
>nC12 to nC28	< 46		46	mg/Kg	1	27-May-2020 10:45
>nC28 to nC35	< 46		46	mg/Kg	1	27-May-2020 10:45
Total Petroleum Hydrocarbon	< 46		46	mg/Kg	1	27-May-2020 10:45
Surr: 2-Fluorobiphenyl	98.8		70-130	%REC	1	27-May-2020 10:45
Surr: Trifluoromethyl benzene	112		70-130	%REC	1	27-May-2020 10:45
MOISTURE		Method:SW3550				Analyst: JAC
Percent Moisture	17.8		0.0100	wt%	1	23-May-2020 15:23

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-22 (4-8)
 Collection Date: 21-May-2020 11:50

ANALYTICAL REPORT

WorkOrder:HS20050835
 Lab ID:HS20050835-26
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0042		0.0042	mg/Kg	1	28-May-2020 05:47
Ethylbenzene	< 0.0042		0.0042	mg/Kg	1	28-May-2020 05:47
m,p-Xylene	< 0.0084		0.0084	mg/Kg	1	28-May-2020 05:47
Methyl tert-butyl ether	< 0.0042		0.0042	mg/Kg	1	28-May-2020 05:47
o-Xylene	< 0.0042		0.0042	mg/Kg	1	28-May-2020 05:47
Toluene	< 0.0042		0.0042	mg/Kg	1	28-May-2020 05:47
Xylenes, Total	< 0.0042		0.0042	mg/Kg	1	28-May-2020 05:47
Surr: 1,2-Dichloroethane-d4	96.9		70-126	%REC	1	28-May-2020 05:47
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	28-May-2020 05:47
Surr: Dibromofluoromethane	94.5		70-130	%REC	1	28-May-2020 05:47
Surr: Toluene-d8	108		70-130	%REC	1	28-May-2020 05:47
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 45		45	mg/Kg	1	27-May-2020 11:14
>nC12 to nC28	< 45		45	mg/Kg	1	27-May-2020 11:14
>nC28 to nC35	< 45		45	mg/Kg	1	27-May-2020 11:14
Total Petroleum Hydrocarbon	< 45		45	mg/Kg	1	27-May-2020 11:14
Surr: 2-Fluorobiphenyl	98.5		70-130	%REC	1	27-May-2020 11:14
Surr: Trifluoromethyl benzene	119		70-130	%REC	1	27-May-2020 11:14
MOISTURE		Method:SW3550				Analyst: MZD
Percent Moisture	23.0		0.0100	wt%	1	26-May-2020 11:29

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-22 (8-12) Water
 Collection Date: 21-May-2020 11:54

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-27
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	23-May-2020 22:14
Ethylbenzene	< 0.0010		0.0010	mg/L	1	23-May-2020 22:14
m,p-Xylene	< 0.0020		0.0020	mg/L	1	23-May-2020 22:14
Methyl tert-butyl ether	< 0.0010		0.0010	mg/L	1	23-May-2020 22:14
o-Xylene	< 0.0010		0.0010	mg/L	1	23-May-2020 22:14
Toluene	< 0.0010		0.0010	mg/L	1	23-May-2020 22:14
Xylenes, Total	< 0.0010		0.0010	mg/L	1	23-May-2020 22:14
<i>Surr: 1,2-Dichloroethane-d4</i>	88.4		70-126	%REC	1	23-May-2020 22:14
<i>Surr: 4-Bromofluorobenzene</i>	96.4		81-113	%REC	1	23-May-2020 22:14
<i>Surr: Dibromofluoromethane</i>	91.7		77-123	%REC	1	23-May-2020 22:14
<i>Surr: Toluene-d8</i>	96.3		82-127	%REC	1	23-May-2020 22:14
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 22-May-2020	Analyst: MBG
nC6 to nC12	< 0.49		0.49	mg/L	1	23-May-2020 06:01
>nC12 to nC28	< 0.49		0.49	mg/L	1	23-May-2020 06:01
>nC28 to nC35	< 0.49		0.49	mg/L	1	23-May-2020 06:01
Total Petroleum Hydrocarbon	< 0.49		0.49	mg/L	1	23-May-2020 06:01
<i>Surr: 2-Fluorobiphenyl</i>	76.1		70-130	%REC	1	23-May-2020 06:01
<i>Surr: Trifluoromethyl benzene</i>	90.1		70-130	%REC	1	23-May-2020 06:01

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: Composite I
 Collection Date: 21-May-2020 12:00

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-28
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		Method:SW8260		Leache:SW1311 / 27-May-2020	Prep:SW1311 / 27-May-2020	Analyst: PC
1,1-Dichloroethene	< 100		100	ug/L	20	28-May-2020 08:53
1,2-Dichloroethane	< 100		100	ug/L	20	28-May-2020 08:53
1,4-Dichlorobenzene	< 100		100	ug/L	20	28-May-2020 08:53
2-Butanone	< 200		200	ug/L	20	28-May-2020 08:53
Benzene	< 100		100	ug/L	20	28-May-2020 08:53
Carbon tetrachloride	< 100		100	ug/L	20	28-May-2020 08:53
Chlorobenzene	< 100		100	ug/L	20	28-May-2020 08:53
Chloroform	< 100		100	ug/L	20	28-May-2020 08:53
Tetrachloroethene	< 100		100	ug/L	20	28-May-2020 08:53
Trichloroethene	< 100		100	ug/L	20	28-May-2020 08:53
Vinyl chloride	< 40		40	ug/L	20	28-May-2020 08:53
Surr: 1,2-Dichloroethane-d4	99.5		70-126	%REC	20	28-May-2020 08:53
Surr: 4-Bromofluorobenzene	93.3		82-124	%REC	20	28-May-2020 08:53
Surr: Dibromofluoromethane	99.2		77-123	%REC	20	28-May-2020 08:53
Surr: Toluene-d8	95.9		82-127	%REC	20	28-May-2020 08:53
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B		Method:ASTM D92-12b				Analyst: TH
Flash Point	> 212	n	50.0	°F	1	22-May-2020 09:30
REACTIVE CYANIDE		Method:SW7.3.3.2		Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	< 100	n	100	mg/Kg	1	22-May-2020 14:30
REACTIVE SULFIDE		Method:SW7.3.4.2				Analyst: KVL
Reactive Sulfide	< 100	n	100	mg/Kg	1	22-May-2020 13:00
PH SOIL BY SW9045D		Method:SW9045D				Analyst: MZD
pH	7.74	H	0.100	pH Units	1	26-May-2020 15:35
Temp Deg C @pH	21.1	H	0	°C	1	26-May-2020 15:35

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: Composite II
 Collection Date: 21-May-2020 12:00

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-29
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method:SW1311/8270	Leache:SW1311 / 27-May-2020	Prep:SW3510 / 27-May-2020		Analyst: GEY
2,4,5-Trichlorophenol	< 5.0		5.0	ug/L	1	29-May-2020 16:08
2,4,6-Trichlorophenol	< 5.0		5.0	ug/L	1	29-May-2020 16:08
2,4-Dinitrotoluene	< 5.0		5.0	ug/L	1	29-May-2020 16:08
Cresols, Total	< 15		15	ug/L	1	29-May-2020 16:08
Hexachlorobenzene	< 5.0		5.0	ug/L	1	29-May-2020 16:08
Hexachlorobutadiene	< 5.0		5.0	ug/L	1	29-May-2020 16:08
Hexachloroethane	< 5.0		5.0	ug/L	1	29-May-2020 16:08
Nitrobenzene	< 5.0		5.0	ug/L	1	29-May-2020 16:08
Pentachlorophenol	< 5.0		5.0	ug/L	1	29-May-2020 16:08
Pyridine	< 5.0		5.0	ug/L	1	29-May-2020 16:08
<i>Surr: 2,4,6-Tribromophenol</i>	60.0		39-153	%REC	1	29-May-2020 16:08
<i>Surr: 2-Fluorobiphenyl</i>	64.5		40-147	%REC	1	29-May-2020 16:08
<i>Surr: 2-Fluorophenol</i>	49.3		21-110	%REC	1	29-May-2020 16:08
<i>Surr: 4-Terphenyl-d14</i>	58.9		39-141	%REC	1	29-May-2020 16:08
<i>Surr: Nitrobenzene-d5</i>	45.7		37-140	%REC	1	29-May-2020 16:08
<i>Surr: Phenol-d6</i>	42.9		11-110	%REC	1	29-May-2020 16:08
TCLP METALS BY SW6020A		Method:SW1311/6020	Leache:SW1311 / 27-May-2020	Prep:SW3010A / 27-May-2020		Analyst: JHD
Antimony	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
Arsenic	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
Barium	0.334		0.200	mg/L	1	27-May-2020 23:05
Beryllium	< 0.0200		0.0200	mg/L	1	27-May-2020 23:05
Cadmium	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
Chromium	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
Lead	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
Nickel	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
Selenium	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
Silver	< 0.0500		0.0500	mg/L	1	27-May-2020 23:05
TCLP MERCURY BY SW7470A		Method:SW7470	Leache:SW1311 / 27-May-2020	Prep:SW7470 / 28-May-2020		Analyst: FO
Mercury	< 0.000200		0.000200	mg/L	1	28-May-2020 14:00

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: Composite III
 Collection Date: 21-May-2020 12:00

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-30
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	28-May-2020 06:12
Ethylbenzene	0.027		0.0048	mg/Kg	1	28-May-2020 06:12
m,p-Xylene	0.051		0.0096	mg/Kg	1	28-May-2020 06:12
Methyl tert-butyl ether	< 0.0048		0.0048	mg/Kg	1	28-May-2020 06:12
o-Xylene	< 0.0048		0.0048	mg/Kg	1	28-May-2020 06:12
Toluene	< 0.0048		0.0048	mg/Kg	1	28-May-2020 06:12
Xylenes, Total	0.052		0.0048	mg/Kg	1	28-May-2020 06:12
<i>Surr: 1,2-Dichloroethane-d4</i>	98.9		70-126	%REC	1	28-May-2020 06:12
<i>Surr: 4-Bromofluorobenzene</i>	102		70-130	%REC	1	28-May-2020 06:12
<i>Surr: Dibromofluoromethane</i>	94.7		70-130	%REC	1	28-May-2020 06:12
<i>Surr: Toluene-d8</i>	106		70-130	%REC	1	28-May-2020 06:12
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 50		50	mg/Kg	1	27-May-2020 11:43
>nC12 to nC28	< 50		50	mg/Kg	1	27-May-2020 11:43
>nC28 to nC35	< 50		50	mg/Kg	1	27-May-2020 11:43
Total Petroleum Hydrocarbon	< 50		50	mg/Kg	1	27-May-2020 11:43
<i>Surr: 2-Fluorobiphenyl</i>	97.9		70-130	%REC	1	27-May-2020 11:43
<i>Surr: Trifluoromethyl benzene</i>	103		70-130	%REC	1	27-May-2020 11:43

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-12
 Collection Date: 20-May-2020 13:34

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-31
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260				Analyst: WLR
Benzene	< 0.0047		0.0047	mg/Kg	1	28-May-2020 06:36
Ethylbenzene	< 0.0047		0.0047	mg/Kg	1	28-May-2020 06:36
m,p-Xylene	< 0.0094		0.0094	mg/Kg	1	28-May-2020 06:36
Methyl tert-butyl ether	< 0.0047		0.0047	mg/Kg	1	28-May-2020 06:36
o-Xylene	< 0.0047		0.0047	mg/Kg	1	28-May-2020 06:36
Toluene	< 0.0047		0.0047	mg/Kg	1	28-May-2020 06:36
Xylenes, Total	< 0.0047		0.0047	mg/Kg	1	28-May-2020 06:36
<i>Surr: 1,2-Dichloroethane-d4</i>	94.9		70-126	%REC	1	28-May-2020 06:36
<i>Surr: 4-Bromofluorobenzene</i>	98.9		70-130	%REC	1	28-May-2020 06:36
<i>Surr: Dibromofluoromethane</i>	94.9		70-130	%REC	1	28-May-2020 06:36
<i>Surr: Toluene-d8</i>	106		70-130	%REC	1	28-May-2020 06:36
TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 45		45	mg/Kg	1	27-May-2020 12:12
>nC12 to nC28	< 45		45	mg/Kg	1	27-May-2020 12:12
>nC28 to nC35	< 45		45	mg/Kg	1	27-May-2020 12:12
Total Petroleum Hydrocarbon	< 45		45	mg/Kg	1	27-May-2020 12:12
<i>Surr: 2-Fluorobiphenyl</i>	96.7		70-130	%REC	1	27-May-2020 12:12
<i>Surr: Trifluoromethyl benzene</i>	109		70-130	%REC	1	27-May-2020 12:12
MOISTURE		Method:SW3550				Analyst: MZD
Percent Moisture	23.3		0.0100	wt%	1	26-May-2020 11:29

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

Client: HVJ Associates
 Project: Phase II ESA project
 Sample ID: EB-14 Water
 Collection Date: 20-May-2020 12:56

ANALYTICAL REPORT
 WorkOrder:HS20050835
 Lab ID:HS20050835-32
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:07
Ethylbenzene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:07
m,p-Xylene	< 0.0020		0.0020	mg/L	1	23-May-2020 20:07
Methyl tert-butyl ether	< 0.0010		0.0010	mg/L	1	23-May-2020 20:07
o-Xylene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:07
Toluene	< 0.0010		0.0010	mg/L	1	23-May-2020 20:07
Xylenes, Total	< 0.0010		0.0010	mg/L	1	23-May-2020 20:07
<i>Surr: 1,2-Dichloroethane-d4</i>	88.5		70-126	%REC	1	23-May-2020 20:07
<i>Surr: 4-Bromofluorobenzene</i>	96.0		81-113	%REC	1	23-May-2020 20:07
<i>Surr: Dibromofluoromethane</i>	89.4		77-123	%REC	1	23-May-2020 20:07
<i>Surr: Toluene-d8</i>	95.9		82-127	%REC	1	23-May-2020 20:07
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 26-May-2020	Analyst: MBG
nC6 to nC12	< 0.48		0.48	mg/L	1	26-May-2020 16:51
>nC12 to nC28	< 0.48		0.48	mg/L	1	26-May-2020 16:51
>nC28 to nC35	< 0.48		0.48	mg/L	1	26-May-2020 16:51
Total Petroleum Hydrocarbon	< 0.48		0.48	mg/L	1	26-May-2020 16:51
<i>Surr: 2-Fluorobiphenyl</i>	99.4		70-130	%REC	1	26-May-2020 16:51
<i>Surr: Trifluoromethyl benzene</i>	114		70-130	%REC	1	26-May-2020 16:51

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

Weight / Prep Log

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

Batch ID: 3756 **Start Date:** 26 May 2020 08:54 **End Date:** 26 May 2020 08:54
Method: VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS20050835-01	1	5.67 (g)	5 (mL)	0.88	TerraCore (5035A)
HS20050835-02	1	5.082 (g)	5 (mL)	0.98	TerraCore (5035A)
HS20050835-03	1	5.42 (g)	5 (mL)	0.92	TerraCore (5035A)
HS20050835-04	1	5.386 (g)	5 (mL)	0.93	TerraCore (5035A)
HS20050835-05	1	5.46 (g)	5 (mL)	0.92	TerraCore (5035A)
HS20050835-06	1	5.927 (g)	5 (mL)	0.84	TerraCore (5035A)
HS20050835-07	1	5.567 (g)	5 (mL)	0.9	TerraCore (5035A)
HS20050835-08	1	6.098 (g)	5 (mL)	0.82	TerraCore (5035A)
HS20050835-09	1	6.242 (g)	5 (mL)	0.8	TerraCore (5035A)
HS20050835-10	1	5.901 (g)	5 (mL)	0.85	TerraCore (5035A)
HS20050835-11	1	5.61 (g)	5 (mL)	0.89	TerraCore (5035A)
HS20050835-12	1	6.176 (g)	5 (mL)	0.81	TerraCore (5035A)
HS20050835-16	1	5.667 (g)	5 (mL)	0.88	TerraCore (5035A)
HS20050835-17	1	6.111 (g)	5 (mL)	0.82	TerraCore (5035A)
HS20050835-19	1	6.665 (g)	5 (mL)	0.75	TerraCore (5035A)
HS20050835-20	1	6.68 (g)	5 (mL)	0.75	TerraCore (5035A)
HS20050835-21	1	5.593 (g)	5 (mL)	0.89	TerraCore (5035A)
HS20050835-23	1	5.179 (g)	5 (mL)	0.97	TerraCore (5035A)
HS20050835-24	1	5.206 (g)	5 (mL)	0.96	TerraCore (5035A)
HS20050835-25	1	5.219 (g)	5 (mL)	0.96	TerraCore (5035A)
HS20050835-26	1	5.954 (g)	5 (mL)	0.84	TerraCore (5035A)
HS20050835-30	1	5.216 (g)	5 (mL)	0.96	Bulk (5030B)
HS20050835-31	1	5.295 (g)	5 (mL)	0.94	TerraCore (5035A)

Batch ID: 153754 **Start Date:** 22 May 2020 08:06 **End Date:** 22 May 2020 10:30
Method: TX 1005 PREP **Prep Code:** TX 1005_S PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-01		11.06 (g)	10 (mL)	0.9042
HS20050835-02		10.81 (g)	10 (mL)	0.9251
HS20050835-03		12.08 (g)	10 (mL)	0.8278
HS20050835-04		11.9 (g)	10 (mL)	0.8403
HS20050835-05		11.62 (g)	10 (mL)	0.8606
HS20050835-06		11.54 (g)	10 (mL)	0.8666
HS20050835-07		10.73 (g)	10 (mL)	0.932
HS20050835-08		9.69 (g)	10 (mL)	1.032
HS20050835-09		12.77 (g)	10 (mL)	0.7831

Batch ID: 153758 **Start Date:** 22 May 2020 09:30 **End Date:** 22 May 2020 11:00
Method: TX 1005 PREP **Prep Code:** TX 1005_W PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-13		30.84 (g)	3 (mL)	0.09728
HS20050835-14		30.89 (g)	3 (mL)	0.09712
HS20050835-15		30.45 (g)	3 (mL)	0.09852
HS20050835-18		30.8 (g)	3 (mL)	0.0974
HS20050835-22		30.72 (g)	3 (mL)	0.09766
HS20050835-27		30.74 (g)	3 (mL)	0.09759

Weight / Prep Log

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

Batch ID: 153801	Start Date: 26 May 2020 09:53	End Date: 26 May 2020 13:00
Method: TX 1005 PREP		Prep Code: TX 1005_W PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-32	1	31.06 (g)	3 (mL)	0.09659

Batch ID: 153823	Start Date: 26 May 2020 15:21	End Date: 26 May 2020 17:00
Method: TX 1005 PREP		Prep Code: TX 1005_S PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-10	1	12.91 (g)	10 (mL)	0.7746
HS20050835-11	1	11.6 (g)	10 (mL)	0.8621
HS20050835-12	1	11.45 (g)	10 (mL)	0.8734
HS20050835-16	1	10.96 (g)	10 (mL)	0.9124
HS20050835-17	1	10.83 (g)	10 (mL)	0.9234
HS20050835-19	1	12.58 (g)	10 (mL)	0.7949
HS20050835-20	1	12.87 (g)	10 (mL)	0.777
HS20050835-21	1	11.09 (g)	10 (mL)	0.9017
HS20050835-23	1	11.14 (g)	10 (mL)	0.8977
HS20050835-24	1	10.39 (g)	10 (mL)	0.9625
HS20050835-25	1	10.92 (g)	10 (mL)	0.9158
HS20050835-26	1	10.99 (g)	10 (mL)	0.9099
HS20050835-30	1	10.07 (g)	10 (mL)	0.993
HS20050835-31	1	11.15 (g)	10 (mL)	0.8969

Batch ID: 153827	Start Date: 26 May 2020 17:00	End Date: 27 May 2020 10:00
Method: TCLP MERCURY EXTRACTION BY SW1311		Prep Code: 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-29		100 (grams)	2000 (mL)	20

Batch ID: 153829	Start Date: 26 May 2020 17:00	End Date: 27 May 2020 10:00
Method: TCLP METALS EXTRACTION BY SW1311		Prep Code: 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-29		100 (grams)	2000 (mL)	20

Batch ID: 153831	Start Date: 26 May 2020 17:00	End Date: 27 May 2020 10:00
Method: TCLP SAMPLE EXTRACTION SEMI		Prep Code: 1311LO_SV

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-29		100 (grams)	2000 (mL)	20

Batch ID: 153832	Start Date: 26 May 2020 17:00	End Date: 27 May 2020 10:00
Method: TCLP ZHE (VOL EXTRACTION)		Prep Code: 1311ZHE

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-28		25 (g)	500 (mL)	20

Weight / Prep Log

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

Batch ID: 153850 **Start Date:** 27 May 2020 14:00 **End Date:** 27 May 2020 18:00
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-29		1 (mL)	10 (mL)	10

Batch ID: 153878 **Start Date:** 27 May 2020 13:00 **End Date:** 27 May 2020 18:00
Method: SV AQ SEP FUNNEL EXTRACTION - SW3510C **Prep Code:** 3510_B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-29	1	1000 (mL)	1 (mL)	0.001

Batch ID: 153922 **Start Date:** 28 May 2020 10:00 **End Date:** 28 May 2020 12:00
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20050835-29		10 (mL)	10 (mL)	1

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 153754 (0)		Test Name : TEXAS TPH BY TX1005			Matrix: Soil	
HS20050835-01	EB-7 (8-12)	20 May 2020 11:26		22 May 2020 08:06	22 May 2020 21:44	1
HS20050835-02	EB-8 (0-4)	20 May 2020 11:45		22 May 2020 08:06	22 May 2020 22:14	1
HS20050835-03	EB-9 (0-4)	20 May 2020 12:18		22 May 2020 08:06	22 May 2020 22:43	1
HS20050835-04	EB-10 (4-8)	20 May 2020 12:35		22 May 2020 08:06	22 May 2020 23:12	1
HS20050835-05	EB-11 (8-12)	20 May 2020 13:51		22 May 2020 08:06	23 May 2020 00:39	1
HS20050835-06	EB-14 (4-8)	20 May 2020 13:00		22 May 2020 08:06	23 May 2020 01:09	1
HS20050835-07	EB-1 (0-4)	20 May 2020 09:16		22 May 2020 08:06	23 May 2020 01:38	1
HS20050835-08	EB-2 (0-4)	20 May 2020 09:45		22 May 2020 08:06	23 May 2020 02:07	1
HS20050835-09	EB-3 (0-4)	20 May 2020 09:57		22 May 2020 08:06	23 May 2020 02:36	1
Batch ID: 153758 (0)		Test Name : LOW-LEVEL TEXAS TPH BY TX1005			Matrix: Water	
HS20050835-13	EB-1 (8-12)	20 May 2020 09:34		22 May 2020 09:30	23 May 2020 03:35	1
HS20050835-14	EB-5 (8-12)	20 May 2020 10:51		22 May 2020 09:30	23 May 2020 04:04	1
HS20050835-15	EB-8 (8-12)	20 May 2020 11:58		22 May 2020 09:30	23 May 2020 04:33	1
HS20050835-18	EB-15 (8-12) Water	21 May 2020 09:26		22 May 2020 09:30	23 May 2020 05:02	1
HS20050835-22	EB-18 (8-12) Water	21 May 2020 11:32		22 May 2020 09:30	23 May 2020 05:31	1
HS20050835-27	EB-22 (8-12) Water	21 May 2020 11:54		22 May 2020 09:30	23 May 2020 06:01	1
Batch ID: 153801 (0)		Test Name : LOW-LEVEL TEXAS TPH BY TX1005			Matrix: Water	
HS20050835-32	EB-14 Water	20 May 2020 12:56		26 May 2020 09:53	26 May 2020 16:51	1
Batch ID: 153823 (0)		Test Name : TEXAS TPH BY TX1005			Matrix: Soil	
HS20050835-10	EB-4 (4-8)	20 May 2020 10:24		26 May 2020 15:21	27 May 2020 10:15	1
HS20050835-11	EB-5 (4-8)	20 May 2020 10:44		26 May 2020 15:21	27 May 2020 10:45	1
HS20050835-12	EB-6 (4-8)	20 May 2020 11:08		26 May 2020 15:21	27 May 2020 11:14	1
HS20050835-16	EB-13 (0-4)	21 May 2020 09:00		26 May 2020 15:21	27 May 2020 11:43	1
HS20050835-17	EB-15 (8-12)	21 May 2020 09:26		26 May 2020 15:21	27 May 2020 12:12	1
HS20050835-19	EB-16 (4-8)	21 May 2020 09:51		26 May 2020 15:21	27 May 2020 12:41	1
HS20050835-20	EB-17 (4-8)	21 May 2020 10:07		26 May 2020 15:21	27 May 2020 13:10	1
HS20050835-21	EB-18 (4-8)	21 May 2020 10:26		26 May 2020 15:21	27 May 2020 13:39	1
HS20050835-23	EB-19 (0-4)	21 May 2020 10:51		26 May 2020 15:21	27 May 2020 09:46	1
HS20050835-24	EB-20 (0-4)	21 May 2020 11:06		26 May 2020 15:21	27 May 2020 10:15	1
HS20050835-25	EB-23 (8-12)	21 May 2020 11:29		26 May 2020 15:21	27 May 2020 10:45	1
HS20050835-26	EB-22 (4-8)	21 May 2020 11:50		26 May 2020 15:21	27 May 2020 11:14	1
HS20050835-30	Composite III	21 May 2020 12:00		26 May 2020 15:21	27 May 2020 11:43	1
HS20050835-31	EB-12	20 May 2020 13:34		26 May 2020 15:21	27 May 2020 12:12	1
Batch ID: 153832 (0)		Test Name : TCLP VOLATILES			Matrix: Soil	
HS20050835-28	Composite I	21 May 2020 12:00	27 May 2020 10:00	27 May 2020 14:25	28 May 2020 08:53	20
Batch ID: 153850 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS20050835-29	Composite II	21 May 2020 12:00	27 May 2020 10:00	27 May 2020 18:00	27 May 2020 23:05	1

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 153878 (0)		Test Name : TCLP SEMIVOLATILES			Matrix: Soil	
HS20050835-29	Composite II	21 May 2020 12:00	27 May 2020 10:00	27 May 2020 13:00	29 May 2020 16:08	1
Batch ID: 153922 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS20050835-29	Composite II	21 May 2020 12:00	27 May 2020 10:00	28 May 2020 10:00	28 May 2020 14:00	1
Batch ID: R361984 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS20050835-28	Composite I	21 May 2020 12:00			22 May 2020 09:30	1
Batch ID: R362020 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS20050835-28	Composite I	21 May 2020 12:00			22 May 2020 13:00	1
Batch ID: R362025 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS20050835-28	Composite I	21 May 2020 12:00			22 May 2020 14:30	1
Batch ID: R362086 (0)		Test Name : MOISTURE			Matrix: Soil	
HS20050835-01	EB-7 (8-12)	20 May 2020 11:26			23 May 2020 15:23	1
HS20050835-02	EB-8 (0-4)	20 May 2020 11:45			23 May 2020 15:23	1
HS20050835-03	EB-9 (0-4)	20 May 2020 12:18			23 May 2020 15:23	1
HS20050835-04	EB-10 (4-8)	20 May 2020 12:35			23 May 2020 15:23	1
HS20050835-05	EB-11 (8-12)	20 May 2020 13:51			23 May 2020 15:23	1
HS20050835-06	EB-14 (4-8)	20 May 2020 13:00			23 May 2020 15:23	1
HS20050835-07	EB-1 (0-4)	20 May 2020 09:16			23 May 2020 15:23	1
HS20050835-08	EB-2 (0-4)	20 May 2020 09:45			23 May 2020 15:23	1
HS20050835-09	EB-3 (0-4)	20 May 2020 09:57			23 May 2020 15:23	1
HS20050835-10	EB-4 (4-8)	20 May 2020 10:24			23 May 2020 15:23	1
HS20050835-11	EB-5 (4-8)	20 May 2020 10:44			23 May 2020 15:23	1
HS20050835-12	EB-6 (4-8)	20 May 2020 11:08			23 May 2020 15:23	1
HS20050835-16	EB-13 (0-4)	21 May 2020 09:00			23 May 2020 15:23	1
HS20050835-17	EB-15 (8-12)	21 May 2020 09:26			23 May 2020 15:23	1
HS20050835-19	EB-16 (4-8)	21 May 2020 09:51			23 May 2020 15:23	1
HS20050835-20	EB-17 (4-8)	21 May 2020 10:07			23 May 2020 15:23	1
HS20050835-21	EB-18 (4-8)	21 May 2020 10:26			23 May 2020 15:23	1
HS20050835-23	EB-19 (0-4)	21 May 2020 10:51			23 May 2020 15:23	1
HS20050835-24	EB-20 (0-4)	21 May 2020 11:06			23 May 2020 15:23	1
HS20050835-25	EB-23 (8-12)	21 May 2020 11:29			23 May 2020 15:23	1
Batch ID: R362107 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20050835-13	EB-1 (8-12)	20 May 2020 09:34			23 May 2020 22:39	5
HS20050835-15	EB-8 (8-12)	20 May 2020 11:58			23 May 2020 20:58	1
HS20050835-18	EB-15 (8-12) Water	21 May 2020 09:26			23 May 2020 21:24	1
HS20050835-27	EB-22 (8-12) Water	21 May 2020 11:54			23 May 2020 22:14	1
HS20050835-32	EB-14 Water	20 May 2020 12:56			23 May 2020 20:07	1

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R362147 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS20050835-28	Composite I	21 May 2020 12:00			26 May 2020 15:35	1
Batch ID: R362160 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS20050835-02	EB-8 (0-4)	20 May 2020 11:45			27 May 2020 04:00	1
HS20050835-03	EB-9 (0-4)	20 May 2020 12:18			27 May 2020 04:25	1
HS20050835-04	EB-10 (4-8)	20 May 2020 12:35			27 May 2020 04:50	1
HS20050835-05	EB-11 (8-12)	20 May 2020 13:51			27 May 2020 05:15	1
HS20050835-06	EB-14 (4-8)	20 May 2020 13:00			27 May 2020 05:40	1
HS20050835-07	EB-1 (0-4)	20 May 2020 09:16			27 May 2020 06:05	1
HS20050835-08	EB-2 (0-4)	20 May 2020 09:45			27 May 2020 06:29	1
HS20050835-09	EB-3 (0-4)	20 May 2020 09:57			27 May 2020 09:49	1
HS20050835-10	EB-4 (4-8)	20 May 2020 10:24			27 May 2020 10:14	1
HS20050835-16	EB-13 (0-4)	21 May 2020 09:00			27 May 2020 10:39	1
HS20050835-17	EB-15 (8-12)	21 May 2020 09:26			27 May 2020 11:04	1
Batch ID: R362162 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS20050835-07	EB-1 (0-4)	20 May 2020 09:16			27 May 2020 15:38	50
Batch ID: R362167 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20050835-14	EB-5 (8-12)	20 May 2020 10:51			26 May 2020 11:51	1
HS20050835-22	EB-18 (8-12) Water	21 May 2020 11:32			26 May 2020 12:14	1
Batch ID: R362174 (0)		Test Name : MOISTURE			Matrix: Soil	
HS20050835-26	EB-22 (4-8)	21 May 2020 11:50			26 May 2020 11:29	1
HS20050835-31	EB-12	20 May 2020 13:34			26 May 2020 11:29	1
Batch ID: R362239 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS20050835-01	EB-7 (8-12)	20 May 2020 11:26			27 May 2020 16:55	1
HS20050835-11	EB-5 (4-8)	20 May 2020 10:44			27 May 2020 17:20	1
HS20050835-12	EB-6 (4-8)	20 May 2020 11:08			27 May 2020 17:45	1
HS20050835-21	EB-18 (4-8)	21 May 2020 10:26			27 May 2020 18:10	1
HS20050835-23	EB-19 (0-4)	21 May 2020 10:51			27 May 2020 18:35	1
HS20050835-24	EB-20 (0-4)	21 May 2020 11:06			27 May 2020 19:00	1
Batch ID: R362241 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS20050835-19	EB-16 (4-8)	21 May 2020 09:51			28 May 2020 04:07	1
HS20050835-20	EB-17 (4-8)	21 May 2020 10:07			28 May 2020 04:32	1
HS20050835-25	EB-23 (8-12)	21 May 2020 11:29			28 May 2020 05:22	1
HS20050835-26	EB-22 (4-8)	21 May 2020 11:50			28 May 2020 05:47	1
HS20050835-30	Composite III	21 May 2020 12:00			28 May 2020 06:12	1
HS20050835-31	EB-12	20 May 2020 13:34			28 May 2020 06:36	1

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153754 (0)	Instrument: FID-11	Method: TEXAS TPH BY TX1005
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MBLK	Sample ID: MBLK-153754	Units: mg/Kg		Analysis Date: 22-May-2020 14:57						
Client ID:	Run ID: FID-11_362101	SeqNo: 5595189		PrepDate: 22-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	< 50	50								
>nC12 to nC28	< 50	50								
>nC28 to nC35	< 50	50								
Total Petroleum Hydrocarbon	< 50	50								
Surr: 2-Fluorobiphenyl	21.19	0	25	0	84.8	70 - 130				
Surr: Trifluoromethyl benzene	23.95	0	25	0	95.8	70 - 130				

LCS	Sample ID: LCS-153754	Units: mg/Kg		Analysis Date: 22-May-2020 15:26						
Client ID:	Run ID: FID-11_362101	SeqNo: 5595190		PrepDate: 22-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	266.7	50	250	0	107	75 - 125				
>nC12 to nC28	250.5	50	250	0	100	75 - 125				
Surr: 2-Fluorobiphenyl	26.6	0	25	0	106	70 - 130				
Surr: Trifluoromethyl benzene	25.6	0	25	0	102	70 - 130				

LCSD	Sample ID: LCSD-153754	Units: mg/Kg		Analysis Date: 22-May-2020 15:55						
Client ID:	Run ID: FID-11_362101	SeqNo: 5595191		PrepDate: 22-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	260.8	50	250	0	104	75 - 125	266.7	2.25	20	
>nC12 to nC28	277.8	50	250	0	111	75 - 125	250.5	10.3	20	
Surr: 2-Fluorobiphenyl	26.33	0	25	0	105	70 - 130	26.6	1.05	20	
Surr: Trifluoromethyl benzene	24.85	0	25	0	99.4	70 - 130	25.6	3.01	20	

The following samples were analyzed in this batch:

HS20050835-01	HS20050835-02	HS20050835-03	HS20050835-04
HS20050835-05	HS20050835-06	HS20050835-07	HS20050835-08
HS20050835-09			

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153758 (0)		Instrument: FID-10		Method: LOW-LEVEL TEXAS TPH BY TX1005						
MBLK	Sample ID: MBLK-153758	Units: mg/L			Analysis Date: 22-May-2020 17:23					
Client ID:	Run ID: FID-10_362097	SeqNo: 5595130		PrepDate: 22-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	< 0.50	0.50								
>nC12 to nC28	< 0.50	0.50								
>nC28 to nC35	< 0.50	0.50								
Total Petroleum Hydrocarbon	< 0.50	0.50								
Surr: 2-Fluorobiphenyl	2.019	0	2.5	0	80.8	70 - 130				
Surr: Trifluoromethyl benzene	2.167	0	2.5	0	86.7	70 - 130				
LCS	Sample ID: LCS-153758	Units: mg/L			Analysis Date: 22-May-2020 17:52					
Client ID:	Run ID: FID-10_362097	SeqNo: 5595131		PrepDate: 22-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	20.83	0.50	25	0	83.3	75 - 125				
>nC12 to nC28	27.18	0.50	25	0	109	75 - 125				
Surr: 2-Fluorobiphenyl	2.454	0	2.5	0	98.1	70 - 130				
Surr: Trifluoromethyl benzene	2.275	0	2.5	0	91.0	70 - 130				
LCSD	Sample ID: LCSD-153758	Units: mg/L			Analysis Date: 22-May-2020 18:21					
Client ID:	Run ID: FID-10_362097	SeqNo: 5595132		PrepDate: 22-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	22.36	0.50	25	0	89.4	75 - 125	20.83	7.09	20	
>nC12 to nC28	28.07	0.50	25	0	112	75 - 125	27.18	3.23	20	
Surr: 2-Fluorobiphenyl	2.418	0	2.5	0	96.7	70 - 130	2.454	1.46	20	
Surr: Trifluoromethyl benzene	2.237	0	2.5	0	89.5	70 - 130	2.275	1.67	20	
MS	Sample ID: HS20050821-01MS	Units: mg/L			Analysis Date: 22-May-2020 19:19					
Client ID:	Run ID: FID-10_362097	SeqNo: 5595134		PrepDate: 22-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	68.72	0.48	24.03	38.28	127	75 - 125				S
>nC12 to nC28	111.1	0.48	24.03	64.33	195	75 - 125				SE
Surr: 2-Fluorobiphenyl	2.973	0	2.403	0	124	70 - 130				
Surr: Trifluoromethyl benzene	2.219	0	2.403	0	92.4	70 - 130				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153758 (0)		Instrument: FID-10		Method: LOW-LEVEL TEXAS TPH BY TX1005							
MSD	Sample ID: HS20050821-01MSD	Units: mg/L			Analysis Date: 22-May-2020 19:48						
Client ID:	Run ID: FID-10_362097	SeqNo: 5595135		PrepDate: 22-May-2020		DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
nC6 to nC12	44.7	0.48	23.94	38.28	26.8	75 - 125	68.72	42.4	20	SR	
>nC12 to nC28	71.19	0.48	23.94	64.33	28.6	75 - 125	111.1	43.8	20	SR	
<i>Surr: 2-Fluorobiphenyl</i>	2.93	0	2.394	0	122	70 - 130	2.973	1.46	20		
<i>Surr: Trifluoromethyl benzene</i>	2.496	0	2.394	0	104	70 - 130	2.219	11.7	20		

The following samples were analyzed in this batch:

HS20050835-13	HS20050835-14	HS20050835-15	HS20050835-18
HS20050835-22	HS20050835-27		

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153801 (0)		Instrument: FID-11		Method: LOW-LEVEL TEXAS TPH BY TX1005						
MBLK	Sample ID: MBLK-153801	Units: mg/L			Analysis Date: 26-May-2020 13:56					
Client ID:	Run ID: FID-11_362193	SeqNo: 5597287		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	< 0.50	0.50								
>nC12 to nC28	< 0.50	0.50								
>nC28 to nC35	< 0.50	0.50								
Total Petroleum Hydrocarbon	< 0.50	0.50								
Surr: 2-Fluorobiphenyl	2.362	0	2.5	0	94.5	70 - 130				
Surr: Trifluoromethyl benzene	2.656	0	2.5	0	106	70 - 130				
LCS	Sample ID: LCS-153801	Units: mg/L			Analysis Date: 26-May-2020 14:25					
Client ID:	Run ID: FID-11_362193	SeqNo: 5597288		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	28.44	0.50	25	0	114	75 - 125				
>nC12 to nC28	29.48	0.50	25	0	118	75 - 125				
Surr: 2-Fluorobiphenyl	3.042	0	2.5	0	122	70 - 130				
Surr: Trifluoromethyl benzene	2.84	0	2.5	0	114	70 - 130				
LCSD	Sample ID: LCSD-153801	Units: mg/L			Analysis Date: 26-May-2020 14:54					
Client ID:	Run ID: FID-11_362193	SeqNo: 5597289		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	25.91	0.50	25	0	104	75 - 125	28.44	9.29	20	
>nC12 to nC28	22.2	0.50	25	0	88.8	75 - 125	29.48	28.1	20	R
Surr: 2-Fluorobiphenyl	2.749	0	2.5	0	110	70 - 130	3.042	10.1	20	
Surr: Trifluoromethyl benzene	2.597	0	2.5	0	104	70 - 130	2.84	8.96	20	
MS	Sample ID: HS20050940-01MS	Units: mg/L			Analysis Date: 26-May-2020 15:53					
Client ID:	Run ID: FID-11_362193	SeqNo: 5597291		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	28.92	0.49	24.35	0	119	75 - 125				
>nC12 to nC28	30.33	0.49	24.35	0	125	75 - 125				
Surr: 2-Fluorobiphenyl	3.073	0	2.435	0	126	70 - 130				
Surr: Trifluoromethyl benzene	2.864	0	2.435	0	118	70 - 130				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153801 (0) **Instrument:** FID-11 **Method:** LOW-LEVEL TEXAS TPH BY TX1005

MSD		Sample ID: HS20050940-01MSD		Units: mg/L		Analysis Date: 26-May-2020 16:22				
Client ID:		Run ID: FID-11_362193		SeqNo: 5597292		PrepDate: 26-May-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	26.11	0.49	24.6	0	106	75 - 125	28.92	10.2	20	
>nC12 to nC28	26.73	0.49	24.6	0	109	75 - 125	30.33	12.6	20	
<i>Surr: 2-Fluorobiphenyl</i>	2.753	0	2.46	0	112	70 - 130	3.073	11	20	
<i>Surr: Trifluoromethyl benzene</i>	2.548	0	2.46	0	104	70 - 130	2.864	11.7	20	

The following samples were analyzed in this batch: HS20050835-32

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153823 (0)		Instrument: FID-10		Method: TEXAS TPH BY TX1005						
MBLK	Sample ID: MBLK-153823	Units: mg/Kg			Analysis Date: 27-May-2020 06:02					
Client ID:	Run ID: FID-10_362161	SeqNo: 5596514		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	< 50	50								
>nC12 to nC28	< 50	50								
>nC28 to nC35	< 50	50								
Total Petroleum Hydrocarbon	< 50	50								
Surr: 2-Fluorobiphenyl	18.34	0	25	0	73.4	70 - 130				
Surr: Trifluoromethyl benzene	22.33	0	25	0	89.3	70 - 130				
LCS	Sample ID: LCS-153823	Units: mg/Kg			Analysis Date: 27-May-2020 06:31					
Client ID:	Run ID: FID-10_362161	SeqNo: 5596515		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	212	50	250	0	84.8	75 - 125				
>nC12 to nC28	252.3	50	250	0	101	75 - 125				
Surr: 2-Fluorobiphenyl	21.57	0	25	0	86.3	70 - 130				
Surr: Trifluoromethyl benzene	21.39	0	25	0	85.5	70 - 130				
LCSD	Sample ID: LCSD-153823	Units: mg/Kg			Analysis Date: 27-May-2020 07:00					
Client ID:	Run ID: FID-10_362161	SeqNo: 5596516		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	214.9	50	250	0	85.9	75 - 125	212	1.33	20	
>nC12 to nC28	261.4	50	250	0	105	75 - 125	252.3	3.54	20	
Surr: 2-Fluorobiphenyl	22.36	0	25	0	89.5	70 - 130	21.57	3.63	20	
Surr: Trifluoromethyl benzene	21.87	0	25	0	87.5	70 - 130	21.39	2.25	20	
MS	Sample ID: HS20050825-05MS	Units: mg/Kg			Analysis Date: 27-May-2020 06:31					
Client ID:	Run ID: FID-10_362161	SeqNo: 5596519		PrepDate: 26-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	270.1	49	244.4	0	111	75 - 125				
>nC12 to nC28	335.1	49	244.4	12.76	132	75 - 125				S
Surr: 2-Fluorobiphenyl	25.73	0	24.44	0	105	70 - 130				
Surr: Trifluoromethyl benzene	24.62	0	24.44	0	101	70 - 130				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153823 (0) **Instrument:** FID-10 **Method:** TEXAS TPH BY TX1005

MSD		Sample ID: HS20050825-05MSD			Units: mg/Kg		Analysis Date: 27-May-2020 07:00			
Client ID:		Run ID: FID-10_362161			SeqNo: 5596520		PrepDate: 26-May-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	272.5	49	245.3	0	111	75 - 125	270.1	0.866	20	
>nC12 to nC28	340.7	49	245.3	12.76	134	75 - 125	335.1	1.66	20	S
<i>Surr: 2-Fluorobiphenyl</i>	26.27	0	24.53	0	107	70 - 130	25.73	2.06	20	
<i>Surr: Trifluoromethyl benzene</i>	24.59	0	24.53	0	100	70 - 130	24.62	0.124	20	

The following samples were analyzed in this batch:

HS20050835-10	HS20050835-11	HS20050835-12	HS20050835-16
HS20050835-17	HS20050835-19	HS20050835-20	HS20050835-21
HS20050835-23	HS20050835-24	HS20050835-25	HS20050835-26
HS20050835-30	HS20050835-31		

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153850 (0) **Instrument:** ICPMS05 **Method:** TCLP METALS BY SW6020A

MBLK		Sample ID: MBLKT2-153850		Units: mg/L		Analysis Date: 27-May-2020 22:34				
Client ID:		Run ID: ICPMS05_362185		SeqNo: 5598288		PrepDate: 27-May-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	< 0.0500	0.0500								
Arsenic	< 0.0500	0.0500								
Barium	< 0.200	0.200								
Beryllium	< 0.0200	0.0200								
Cadmium	< 0.0500	0.0500								
Chromium	< 0.0500	0.0500								
Lead	< 0.0500	0.0500								
Nickel	< 0.0500	0.0500								
Selenium	< 0.0500	0.0500								
Silver	< 0.0500	0.0500								

MBLK		Sample ID: MBLKT3-153850		Units: mg/L		Analysis Date: 27-May-2020 22:37				
Client ID:		Run ID: ICPMS05_362185		SeqNo: 5598289		PrepDate: 27-May-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	< 0.0500	0.0500								
Arsenic	< 0.0500	0.0500								
Barium	< 0.200	0.200								
Beryllium	< 0.0200	0.0200								
Cadmium	< 0.0500	0.0500								
Chromium	< 0.0500	0.0500								
Lead	< 0.0500	0.0500								
Nickel	< 0.0500	0.0500								
Selenium	< 0.0500	0.0500								
Silver	< 0.0500	0.0500								

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153850 (0)	Instrument: ICPMS05	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT1-153850	Units: mg/L	Analysis Date: 27-May-2020 22:32							
Client ID:	Run ID: ICPMS05_362185	SeqNo: 5598287	PrepDate: 27-May-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Antimony	< 0.0500	0.0500								
Arsenic	< 0.0500	0.0500								
Barium	< 0.200	0.200								
Beryllium	< 0.0200	0.0200								
Cadmium	< 0.0500	0.0500								
Chromium	< 0.0500	0.0500								
Lead	< 0.0500	0.0500								
Nickel	< 0.0500	0.0500								
Selenium	< 0.0500	0.0500								
Silver	< 0.0500	0.0500								

MBLK	Sample ID: MBLK-153850	Units: mg/L	Analysis Date: 27-May-2020 22:29							
Client ID:	Run ID: ICPMS05_362185	SeqNo: 5598286	PrepDate: 27-May-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Antimony	< 0.00500	0.00500								
Arsenic	< 0.00500	0.00500								
Barium	< 0.0200	0.0200								
Beryllium	< 0.00200	0.00200								
Cadmium	< 0.00500	0.00500								
Chromium	< 0.00500	0.00500								
Lead	< 0.00500	0.00500								
Nickel	< 0.00500	0.00500								
Selenium	< 0.00500	0.00500								
Silver	< 0.00500	0.00500								

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153850 (0)	Instrument: ICPMS05	Method: TCLP METALS BY SW6020A
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LCS		Sample ID: LCS-153850			Units: mg/L		Analysis Date: 27-May-2020 22:39			
Client ID:		Run ID: ICPMS05_362185			SeqNo: 5598290		PrepDate: 27-May-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0457	0.00500	0.05	0	91.4	80 - 120				
Arsenic	0.04608	0.00500	0.05	0	92.2	80 - 120				
Barium	0.04362	0.0200	0.05	0	87.2	80 - 120				
Beryllium	0.04224	0.00200	0.05	0	84.5	80 - 120				
Cadmium	0.0458	0.00500	0.05	0	91.6	80 - 120				
Chromium	0.04549	0.00500	0.05	0	91.0	80 - 120				
Lead	0.04585	0.00500	0.05	0	91.7	80 - 120				
Nickel	0.04652	0.00500	0.05	0	93.0	80 - 120				
Selenium	0.04723	0.00500	0.05	0	94.5	80 - 120				
Silver	0.04496	0.00500	0.05	0	89.9	80 - 120				

MS		Sample ID: HS20050887-01MS			Units: mg/L		Analysis Date: 27-May-2020 22:51			
Client ID:		Run ID: ICPMS05_362185			SeqNo: 5598295		PrepDate: 27-May-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4435	0.0500	0.5	0.00077	88.5	80 - 120				
Arsenic	0.448	0.0500	0.5	0.00244	89.1	80 - 120				
Barium	0.5274	0.200	0.5	0.109	83.7	80 - 120				
Beryllium	0.4133	0.0200	0.5	0.00014	82.6	80 - 120				
Cadmium	0.4398	0.0500	0.5	-0.00002	88.0	80 - 120				
Chromium	0.4432	0.0500	0.5	0.00083	88.5	80 - 120				
Lead	0.4486	0.0500	0.5	0.00044	89.6	80 - 120				
Nickel	0.4491	0.0500	0.5	0.00384	89.1	80 - 120				
Selenium	0.4527	0.0500	0.5	0.0024	90.1	80 - 120				
Silver	0.4393	0.0500	0.5	0.00004	87.8	80 - 120				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153850 (0) **Instrument:** ICPMS05 **Method:** TCLP METALS BY SW6020A

MSD		Sample ID: HS20050887-01MSD			Units: mg/L		Analysis Date: 27-May-2020 22:53			
Client ID:		Run ID: ICPMS05_362185			SeqNo: 5598296		PrepDate: 27-May-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.471	0.0500	0.5	0.00077	94.1	80 - 120	0.4435	6.02	20	
Arsenic	0.4657	0.0500	0.5	0.00244	92.7	80 - 120	0.448	3.87	20	
Barium	0.5431	0.200	0.5	0.109	86.8	80 - 120	0.5274	2.94	20	
Beryllium	0.4414	0.0200	0.5	0.00014	88.2	80 - 120	0.4133	6.56	20	
Cadmium	0.4606	0.0500	0.5	-0.00002	92.1	80 - 120	0.4398	4.63	20	
Chromium	0.4562	0.0500	0.5	0.00083	91.1	80 - 120	0.4432	2.88	20	
Lead	0.4806	0.0500	0.5	0.00044	96.0	80 - 120	0.4486	6.9	20	
Nickel	0.4668	0.0500	0.5	0.00384	92.6	80 - 120	0.4491	3.86	20	
Selenium	0.4628	0.0500	0.5	0.0024	92.1	80 - 120	0.4527	2.21	20	
Silver	0.4389	0.0500	0.5	0.00004	87.8	80 - 120	0.4393	0.0888	20	

PDS		Sample ID: HS20050887-01PDS			Units: mg/L		Analysis Date: 27-May-2020 22:56			
Client ID:		Run ID: ICPMS05_362185			SeqNo: 5598297		PrepDate: 27-May-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.8299	0.0500	1	0.00077	82.9	75 - 125				
Arsenic	0.9583	0.0500	1	0.00244	95.6	75 - 125				
Barium	1.009	0.200	1	0.109	90.0	75 - 125				
Beryllium	0.893	0.0200	1	0.00014	89.3	75 - 125				
Cadmium	0.9212	0.0500	1	-0.00002	92.1	75 - 125				
Chromium	0.9311	0.0500	1	0.00083	93.0	75 - 125				
Lead	0.942	0.0500	1	0.00044	94.2	75 - 125				
Nickel	0.9437	0.0500	1	0.00384	94.0	75 - 125				
Selenium	0.9706	0.0500	1	0.0024	96.8	75 - 125				
Silver	0.9715	0.0500	1	0.00004	97.1	75 - 125				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153850 (0)		Instrument: ICPMS05		Method: TCLP METALS BY SW6020A						
SD	Sample ID: HS20050887-01SD	Units: mg/L		Analysis Date: 27-May-2020 22:49						
Client ID:	Run ID: ICPMS05_362185	SeqNo: 5598294		PrepDate: 27-May-2020			DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Antimony	< 0.250	0.250					0.00077	0	10	
Arsenic	< 0.250	0.250					0.00244	0	10	
Barium	0.1057	1.00					0.109	0	10 J	
Beryllium	< 0.100	0.100					0.00014	0	10	
Cadmium	< 0.250	0.250					-0.00002	0	10	
Chromium	< 0.250	0.250					0.00083	0	10	
Lead	< 0.250	0.250					0.00044	0	10	
Nickel	< 0.250	0.250					0.00384	0	10	
Selenium	< 0.250	0.250					0.0024	0	10	
Silver	< 0.250	0.250					0.00004	0	10	
The following samples were analyzed in this batch: HS20050835-29										

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153922 (0)	Instrument: HG03	Method: TCLP MERCURY BY SW7470A
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MBLK	Sample ID: MBLKT1-153922	Units: mg/L	Analysis Date: 28-May-2020 13:52							
Client ID:	Run ID: HG03_362311	SeqNo: 5599756	PrepDate: 28-May-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury < 0.000200 0.000200

MBLK	Sample ID: MBLK-153922	Units: mg/L	Analysis Date: 28-May-2020 13:44							
Client ID:	Run ID: HG03_362311	SeqNo: 5599751	PrepDate: 28-May-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury < 0.000200 0.000200

LCS	Sample ID: LCS-153922	Units: mg/L	Analysis Date: 28-May-2020 13:46							
Client ID:	Run ID: HG03_362311	SeqNo: 5599752	PrepDate: 28-May-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00494 0.000200 0.005 0 98.8 80 - 120

MS	Sample ID: HS20050886-01MS	Units: mg/L	Analysis Date: 28-May-2020 13:49							
Client ID:	Run ID: HG03_362311	SeqNo: 5599754	PrepDate: 28-May-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00501 0.000200 0.005 0.000057 99.1 75 - 125

MSD	Sample ID: HS20050886-01MSD	Units: mg/L	Analysis Date: 28-May-2020 13:51							
Client ID:	Run ID: HG03_362311	SeqNo: 5599755	PrepDate: 28-May-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00528 0.000200 0.005 0.000057 104 75 - 125 0.00501 5.25 20

The following samples were analyzed in this batch:

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153878 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MBLK	Sample ID: MBLK-153878	Units: ug/L			Analysis Date: 28-May-2020 12:34					
Client ID:	Run ID: SV-4_362302	SeqNo: 5599639		PrepDate: 27-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	< 5.0	5.0								
2,4,6-Trichlorophenol	< 5.0	5.0								
2,4-Dinitrotoluene	< 5.0	5.0								
Cresols, Total	< 15	15								
Hexachlorobenzene	< 5.0	5.0								
Hexachlorobutadiene	< 5.0	5.0								
Hexachloroethane	< 5.0	5.0								
Nitrobenzene	< 5.0	5.0								
Pentachlorophenol	< 5.0	5.0								
Pyridine	< 5.0	5.0								
<i>Surr: 2,4,6-Tribromophenol</i>	87.23	5.0	100	0	87.2	39 - 153				
<i>Surr: 2-Fluorobiphenyl</i>	87.2	5.0	100	0	87.2	40 - 147				
<i>Surr: 2-Fluorophenol</i>	83.32	5.0	100	0	83.3	21 - 110				
<i>Surr: 4-Terphenyl-d14</i>	83.6	5.0	100	0	83.6	39 - 141				
<i>Surr: Nitrobenzene-d5</i>	81.87	5.0	100	0	81.9	37 - 140				
<i>Surr: Phenol-d6</i>	84.17	5.0	100	0	84.2	11 - 110				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153878 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-153878	Units: ug/L			Analysis Date: 28-May-2020 12:55					
Client ID:	Run ID: SV-4_362302	SeqNo: 5599640		PrepDate: 27-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	93.3	5.0	100	0	93.3	55 - 120				
2,4,6-Trichlorophenol	83.52	5.0	100	0	83.5	55 - 120				
2,4-Dinitrotoluene	42.28	5.0	50	0	84.6	55 - 125				
Cresols, Total	195.2	15	250	0	78.1	48 - 115				
Hexachlorobenzene	40	5.0	50	0	80.0	55 - 120				
Hexachlorobutadiene	45.09	5.0	50	0	90.2	55 - 120				
Hexachloroethane	38.44	5.0	50	0	76.9	55 - 120				
Nitrobenzene	44.46	5.0	50	0	88.9	55 - 120				
Pentachlorophenol	80.76	5.0	100	0	80.8	50 - 135				
Pyridine	33.71	5.0	50	0	67.4	30 - 120				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>80.35</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>80.3</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>79.45</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>79.4</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>80.67</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>80.7</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>80.83</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>80.8</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>78.32</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>78.3</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>72.65</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>72.7</i>	<i>11 - 110</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153878 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCSD	Sample ID: LCSD-153878	Units: ug/L			Analysis Date: 28-May-2020 13:16					
Client ID:	Run ID: SV-4_362302	SeqNo: 5599641	PrepDate: 27-May-2020	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	94.13	5.0	100	0	94.1	55 - 120	93.3	0.885	20	
2,4,6-Trichlorophenol	84.5	5.0	100	0	84.5	55 - 120	83.52	1.18	20	
2,4-Dinitrotoluene	46.32	5.0	50	0	92.6	55 - 125	42.28	9.14	20	
Cresols, Total	204.5	15	250	0	81.8	48 - 115	195.2	4.66	20	
Hexachlorobenzene	42.23	5.0	50	0	84.5	55 - 120	40	5.43	20	
Hexachlorobutadiene	45.78	5.0	50	0	91.6	55 - 120	45.09	1.52	20	
Hexachloroethane	39.61	5.0	50	0	79.2	55 - 120	38.44	3.02	20	
Nitrobenzene	44.11	5.0	50	0	88.2	55 - 120	44.46	0.802	20	
Pentachlorophenol	83.93	5.0	100	0	83.9	50 - 135	80.76	3.84	20	
Pyridine	34.06	5.0	50	0	68.1	30 - 120	33.71	1.01	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>84.72</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>84.7</i>	<i>39 - 153</i>	<i>80.35</i>	<i>5.3</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>78.84</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>78.8</i>	<i>40 - 147</i>	<i>79.45</i>	<i>0.77</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>80.85</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>80.9</i>	<i>21 - 110</i>	<i>80.67</i>	<i>0.224</i>	<i>20</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>81.88</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>81.9</i>	<i>39 - 141</i>	<i>80.83</i>	<i>1.29</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>78.16</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>78.2</i>	<i>37 - 140</i>	<i>78.32</i>	<i>0.199</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>74.43</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>74.4</i>	<i>11 - 110</i>	<i>72.65</i>	<i>2.41</i>	<i>20</i>	

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153878 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS	Sample ID: HS20050886-01MS	Units: ug/L			Analysis Date: 27-May-2020 20:25					
Client ID:	Run ID: SV-4_362218	SeqNo: 5599708		PrepDate: 27-May-2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	97.37	5.0	100	0	97.4	55 - 120				
2,4,6-Trichlorophenol	84.77	5.0	100	0	84.8	55 - 120				
2,4-Dinitrotoluene	52.06	5.0	50	0	104	55 - 125				
Cresols, Total	208.8	15	250	0	83.5	48 - 115				
Hexachlorobenzene	45.11	5.0	50	0	90.2	55 - 120				
Hexachlorobutadiene	41.14	5.0	50	0	82.3	55 - 120				
Hexachloroethane	38.53	5.0	50	0	77.1	55 - 120				
Nitrobenzene	44.43	5.0	50	0	88.9	55 - 120				
Pentachlorophenol	94.99	5.0	100	0	95.0	50 - 135				
Pyridine	37.4	5.0	50	0	74.8	30 - 120				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>91.23</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>91.2</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>76.85</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>76.8</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>79.03</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>79.0</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>98.29</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>98.3</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>76.3</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>76.3</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>74.59</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>74.6</i>	<i>11 - 110</i>				

The following samples were analyzed in this batch: HS20050835-29

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153832 (0) **Instrument:** VOA9 **Method:** TCLP VOLATILES

MBLK	Sample ID: MBLK-153832	Units: ug/L			Analysis Date: 28-May-2020 06:27					
Client ID:	Run ID: VOA9_362267	SeqNo: 5599068	PrepDate: 27-May-2020	DF: 20						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	< 100	100								
1,2-Dichloroethane	< 100	100								
1,4-Dichlorobenzene	< 100	100								
2-Butanone	< 200	200								
Benzene	< 100	100								
Carbon tetrachloride	< 100	100								
Chlorobenzene	< 100	100								
Chloroform	< 100	100								
Tetrachloroethene	< 100	100								
Trichloroethene	< 100	100								
Vinyl chloride	< 40	40								
<i>Surr: 1,2-Dichloroethane-d4</i>	968.1	100	1000	0	96.8	70 - 130				
<i>Surr: 4-Bromofluorobenzene</i>	930.3	100	1000	0	93.0	82 - 115				
<i>Surr: Dibromofluoromethane</i>	987	100	1000	0	98.7	73 - 126				
<i>Surr: Toluene-d8</i>	966.2	100	1000	0	96.6	81 - 120				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153832 (0)		Instrument: VOA9		Method: TCLP VOLATILES						
LCS	Sample ID: VLCSW-153832	Units: ug/L			Analysis Date: 28-May-2020 03:12					
Client ID:	Run ID: VOA9_362267	SeqNo: 5599064		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,1-Dichloroethene	19.08	5.0	20	0	95.4	70 - 130				
1,2-Dichloroethane	20.27	5.0	20	0	101	70 - 124				
1,4-Dichlorobenzene	19.48	5.0	20	0	97.4	79 - 113				
2-Butanone	30.39	10	40	0	76.0	70 - 130				
Benzene	19.2	5.0	20	0	96.0	74 - 120				
Carbon tetrachloride	22.05	5.0	20	0	110	71 - 125				
Chlorobenzene	20.1	5.0	20	0	101	76 - 113				
Chloroform	18.81	5.0	20	0	94.1	71 - 121				
Tetrachloroethene	19.97	5.0	20	0	99.8	76 - 119				
Trichloroethene	20.45	5.0	20	0	102	77 - 121				
Vinyl chloride	16.11	2.0	20	0	80.5	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.72</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>93.4</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.02</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>47.03</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>94.1</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>48.58</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>97.2</i>	<i>81 - 120</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: 153832 (0)		Instrument: VOA9		Method: TCLP VOLATILES						
MS	Sample ID: HS20050892-05MS	Units: ug/L			Analysis Date: 28-May-2020 04:49					
Client ID:	Run ID: VOA9_362267	SeqNo: 5599067	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.15	5.0	20	0	101	70 - 130				
1,2-Dichloroethane	20.67	5.0	20	0	103	70 - 127				
1,4-Dichlorobenzene	18.51	5.0	20	0	92.5	70 - 114				
2-Butanone	26.87	10	40	0	67.2	70 - 130				S
Benzene	19.66	5.0	20	0	98.3	70 - 127				
Carbon tetrachloride	22.1	5.0	20	0	111	70 - 130				
Chlorobenzene	19.99	5.0	20	0	99.9	70 - 114				
Chloroform	19.02	5.0	20	0	95.1	70 - 125				
Tetrachloroethene	19.56	5.0	20	0	97.8	70 - 130				
Trichloroethene	21.09	5.0	20	0	105	70 - 129				
Vinyl chloride	17.8	2.0	20	0	89.0	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.87</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>93.7</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.28</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>47.31</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>94.6</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>48.77</i>	<i>5.0</i>	<i>50</i>	<i>0</i>	<i>97.5</i>	<i>82 - 127</i>				

The following samples were analyzed in this batch:

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362107 (0)	Instrument: VOA4	Method: LOW LEVEL VOLATILES BY SW8260C
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MBLK		Sample ID: VBLKW-200523			Units: ug/L		Analysis Date: 23-May-2020 13:08			
Client ID:		Run ID: VOA4_362107			SeqNo: 5595386		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
m,p-Xylene	< 2.0	2.0								
Methyl tert-butyl ether	< 1.0	1.0								
o-Xylene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 1.0	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>43.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>87.0</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.74</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.5</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>45.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>91.5</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.59</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200523			Units: ug/L		Analysis Date: 23-May-2020 12:16			
Client ID:		Run ID: VOA4_362107			SeqNo: 5595385		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.17	1.0	20	0	85.9	74 - 120				
Ethylbenzene	18.88	1.0	20	0	94.4	77 - 117				
m,p-Xylene	39.4	2.0	40	0	98.5	77 - 122				
Methyl tert-butyl ether	24.54	1.0	20	0	123	70 - 130				
o-Xylene	19.83	1.0	20	0	99.1	75 - 119				
Toluene	18.55	1.0	20	0	92.8	77 - 118				
Xylenes, Total	59.23	1.0	60	0	98.7	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>41.66</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>83.3</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.02</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.0</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>44.89</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>89.8</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.54</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>81 - 120</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362107 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C							
MS	Sample ID: HS20050884-01MS	Units: ug/L			Analysis Date: 23-May-2020 14:54						
Client ID:	Run ID: VOA4_362107	SeqNo: 5595390		PrepDate:			DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	158.6	1.0	20	32.49	630	70 - 127				S	
Ethylbenzene	90.95	1.0	20	21.37	348	70 - 124				S	
m,p-Xylene	45.13	2.0	40	0	113	70 - 130					
Methyl tert-butyl ether	26.2	1.0	20	0	131	70 - 130				S	
o-Xylene	22.43	1.0	20	0	112	70 - 124					
Toluene	20.67	1.0	20	0	103	70 - 123					
Xylenes, Total	67.56	1.0	60	0	113	70 - 130					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>43.07</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>86.1</i>	<i>70 - 126</i>					
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.93</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>					
<i>Surr: Dibromofluoromethane</i>	<i>43.73</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>87.5</i>	<i>77 - 123</i>					
<i>Surr: Toluene-d8</i>	<i>48.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.5</i>	<i>82 - 127</i>					

MSD	Sample ID: HS20050884-01MSD	Units: ug/L			Analysis Date: 23-May-2020 15:20						
Client ID:	Run ID: VOA4_362107	SeqNo: 5595391		PrepDate:			DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	151.6	1.0	20	32.49	595	70 - 127	158.6	4.51	20	S	
Ethylbenzene	86.54	1.0	20	21.37	326	70 - 124	90.95	4.97	20	S	
m,p-Xylene	42.72	2.0	40	0	107	70 - 130	45.13	5.49	20		
Methyl tert-butyl ether	28.79	1.0	20	0	144	70 - 130	26.2	9.43	20	S	
o-Xylene	21.62	1.0	20	0	108	70 - 124	22.43	3.66	20		
Toluene	19.77	1.0	20	0	98.9	70 - 123	20.67	4.45	20		
Xylenes, Total	64.34	1.0	60	0	107	70 - 130	67.56	4.88	20		
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>43.5</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>87.0</i>	<i>70 - 126</i>	<i>43.07</i>	<i>1</i>	<i>20</i>		
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.94</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>	<i>50.93</i>	<i>0.0138</i>	<i>20</i>		
<i>Surr: Dibromofluoromethane</i>	<i>44.57</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>89.1</i>	<i>77 - 123</i>	<i>43.73</i>	<i>1.89</i>	<i>20</i>		
<i>Surr: Toluene-d8</i>	<i>50.04</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>	<i>48.75</i>	<i>2.61</i>	<i>20</i>		

The following samples were analyzed in this batch:

HS20050835-13	HS20050835-15	HS20050835-18	HS20050835-27
HS20050835-32			

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362160 (0)	Instrument: VOA5	Method: VOLATILES BY SW8260C
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MBLK		Sample ID: VBLKS1-052720			Units: ug/Kg		Analysis Date: 27-May-2020 02:20			
Client ID:		Run ID: VOA5_362160			SeqNo: 5596500		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
m,p-Xylene	< 10	10								
Methyl tert-butyl ether	< 5.0	5.0								
o-Xylene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	45.99	0	50	0	92.0	76 - 125				
<i>Surr: 4-Bromofluorobenzene</i>	49.4	0	50	0	98.8	80 - 120				
<i>Surr: Dibromofluoromethane</i>	46.4	0	50	0	92.8	80 - 119				
<i>Surr: Toluene-d8</i>	51.61	0	50	0	103	81 - 118				

LCS		Sample ID: VLCSS1-052720			Units: ug/Kg		Analysis Date: 27-May-2020 01:31			
Client ID:		Run ID: VOA5_362160			SeqNo: 5596499		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.81	5.0	50	0	99.6	75 - 124				
Ethylbenzene	50.15	5.0	50	0	100	70 - 123				
m,p-Xylene	98.7	10	100	0	98.7	77 - 125				
Methyl tert-butyl ether	49.22	5.0	50	0	98.4	70 - 128				
o-Xylene	51.06	5.0	50	0	102	78 - 122				
Toluene	48.19	5.0	50	0	96.4	76 - 122				
Xylenes, Total	149.8	5.0	150	0	99.8	77 - 128				
<i>Surr: 1,2-Dichloroethane-d4</i>	50.95	0	50	0	102	76 - 125				
<i>Surr: 4-Bromofluorobenzene</i>	50.34	0	50	0	101	80 - 120				
<i>Surr: Dibromofluoromethane</i>	50.3	0	50	0	101	80 - 119				
<i>Surr: Toluene-d8</i>	50.92	0	50	0	102	81 - 118				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362160 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MS		Sample ID: HS20050875-02MS			Units: ug/Kg		Analysis Date: 27-May-2020 08:59			
Client ID:		Run ID: VOA5_362160			SeqNo: 5596674		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	55.14	4.9	49	0	113	70 - 130				
Ethylbenzene	58.9	4.9	49	0	120	70 - 130				
m,p-Xylene	116.8	9.8	98	0	119	70 - 130				
Methyl tert-butyl ether	52.15	4.9	49	0	106	70 - 130				
o-Xylene	58.62	4.9	49	0	120	70 - 130				
Toluene	55.33	4.9	49	0	113	70 - 130				
Xylenes, Total	175.4	4.9	147	0	119	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.48</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>98.9</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.51</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>101</i>	<i>70 - 130</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.39</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>98.8</i>	<i>70 - 130</i>				
<i>Surr: Toluene-d8</i>	<i>50.2</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>102</i>	<i>70 - 130</i>				

MSD		Sample ID: HS20050875-02MSD			Units: ug/Kg		Analysis Date: 27-May-2020 09:24			
Client ID:		Run ID: VOA5_362160			SeqNo: 5596675		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.38	4.9	49	0	111	70 - 130	55.14	1.39	30	
Ethylbenzene	57.29	4.9	49	0	117	70 - 130	58.9	2.77	30	
m,p-Xylene	113.2	9.8	98	0	115	70 - 130	116.8	3.13	30	
Methyl tert-butyl ether	52.58	4.9	49	0	107	70 - 130	52.15	0.818	30	
o-Xylene	57.44	4.9	49	0	117	70 - 130	58.62	2.04	30	
Toluene	53.83	4.9	49	0	110	70 - 130	55.33	2.75	30	
Xylenes, Total	170.6	4.9	147	0	116	70 - 130	175.4	2.77	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.67</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>99.3</i>	<i>70 - 126</i>	<i>48.48</i>	<i>0.404</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.2</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>100</i>	<i>70 - 130</i>	<i>49.51</i>	<i>0.631</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.96</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>99.9</i>	<i>70 - 130</i>	<i>48.39</i>	<i>1.16</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>49.46</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>101</i>	<i>70 - 130</i>	<i>50.2</i>	<i>1.5</i>	<i>30</i>	

The following samples were analyzed in this batch:

HS20050835-02	HS20050835-03	HS20050835-04	HS20050835-05
HS20050835-06	HS20050835-07	HS20050835-08	HS20050835-09
HS20050835-10	HS20050835-16	HS20050835-17	

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362162 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
MBLK	Sample ID: MBLKW1-052720	Units: ug/Kg			Analysis Date: 27-May-2020 08:08					
Client ID:	Run ID: VOA8_362162	SeqNo: 5596591		PrepDate:			DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	< 250	250								
m,p-Xylene	< 500	500								
o-Xylene	< 250	250								
Xylenes, Total	< 250	250								
Surr: 1,2-Dichloroethane-d4	2360	0	2500	0	94.4	76 - 125				
Surr: 4-Bromofluorobenzene	2468	0	2500	0	98.7	80 - 120				
Surr: Dibromofluoromethane	2421	0	2500	0	96.8	80 - 119				
Surr: Toluene-d8	2489	0	2500	0	99.5	81 - 118				
LCS	Sample ID: VLCSW1-052720	Units: ug/Kg			Analysis Date: 27-May-2020 07:18					
Client ID:	Run ID: VOA8_362162	SeqNo: 5596590		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	50.41	5.0	50	0	101	70 - 123				
m,p-Xylene	100.9	10	100	0	101	77 - 125				
o-Xylene	49.62	5.0	50	0	99.2	78 - 122				
Xylenes, Total	150.5	5.0	150	0	100	77 - 128				
Surr: 1,2-Dichloroethane-d4	46.52	0	50	0	93.0	76 - 125				
Surr: 4-Bromofluorobenzene	50.95	0	50	0	102	80 - 120				
Surr: Dibromofluoromethane	49.89	0	50	0	99.8	80 - 119				
Surr: Toluene-d8	50.49	0	50	0	101	81 - 118				
MS	Sample ID: HS20050881-03MS	Units: ug/Kg			Analysis Date: 27-May-2020 10:13					
Client ID:	Run ID: VOA8_362162	SeqNo: 5597180		PrepDate:			DF: 50000			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	2264000	210000	2.125e+006	454500	85.1	70 - 130				
m,p-Xylene	6016000	420000	4.25e+006	1675000	102	70 - 130				
o-Xylene	2652000	210000	2.125e+006	735400	90.2	70 - 130				
Xylenes, Total	8668000	210000	6.375e+006	2410000	98.2	70 - 130				
Surr: 1,2-Dichloroethane-d4	1701000	0	2.125e+006	0	80.1	70 - 126				
Surr: 4-Bromofluorobenzene	2098000	0	2.125e+006	0	98.7	70 - 130				
Surr: Dibromofluoromethane	1941000	0	2.125e+006	0	91.4	70 - 130				
Surr: Toluene-d8	2049000	0	2.125e+006	0	96.4	70 - 130				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362162 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
MSD	Sample ID: HS20050881-03MSD	Units: ug/Kg			Analysis Date: 27-May-2020 10:38					
Client ID:	Run ID: VOA8_362162	SeqNo: 5597181		PrepDate:			DF: 50000			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	3031000	210000	2.125e+006	454500	121	70 - 130	2264000	29	30	
m,p-Xylene	7488000	420000	4.25e+006	1675000	137	70 - 130	6016000	21.8	30	S
o-Xylene	3484000	210000	2.125e+006	735400	129	70 - 130	2652000	27.1	30	
Xylenes, Total	10970000	210000	6.375e+006	2410000	134	70 - 130	8668000	23.5	30	S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1683000</i>	<i>0</i>	<i>2.125e+006</i>	<i>0</i>	<i>79.2</i>	<i>70 - 126</i>	<i>1701000</i>	<i>1.07</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>2135000</i>	<i>0</i>	<i>2.125e+006</i>	<i>0</i>	<i>100</i>	<i>70 - 130</i>	<i>2098000</i>	<i>1.76</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1936000</i>	<i>0</i>	<i>2.125e+006</i>	<i>0</i>	<i>91.1</i>	<i>70 - 130</i>	<i>1941000</i>	<i>0.258</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>2106000</i>	<i>0</i>	<i>2.125e+006</i>	<i>0</i>	<i>99.1</i>	<i>70 - 130</i>	<i>2049000</i>	<i>2.76</i>	<i>30</i>	

The following samples were analyzed in this batch: HS20050835-07

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MBLK	Sample ID: VBLKW-200526	Units: ug/L			Analysis Date: 26-May-2020 11:04					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596680	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	< 1.0	1.0								
1,1,2,2-Tetrachloroethane	< 1.0	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0	1.0								
1,1,2-Trichloroethane	< 1.0	1.0								
1,1-Dichloroethane	< 1.0	1.0								
1,1-Dichloroethene	< 1.0	1.0								
1,2,4-Trichlorobenzene	< 1.0	1.0								
1,2-Dibromo-3-chloropropane	< 1.0	1.0								
1,2-Dibromoethane	< 1.0	1.0								
1,2-Dichlorobenzene	< 1.0	1.0								
1,2-Dichloroethane	< 1.0	1.0								
1,2-Dichloropropane	< 1.0	1.0								
1,3-Dichlorobenzene	< 1.0	1.0								
1,4-Dichlorobenzene	< 1.0	1.0								
2-Butanone	< 2.0	2.0								
2-Hexanone	< 2.0	2.0								
4-Methyl-2-pentanone	< 2.0	2.0								
Acetone	< 2.0	2.0								
Benzene	< 1.0	1.0								
Bromodichloromethane	< 1.0	1.0								
Bromoform	< 1.0	1.0								
Bromomethane	< 1.0	1.0								
Carbon disulfide	< 2.0	2.0								
Carbon tetrachloride	< 1.0	1.0								
Chlorobenzene	< 1.0	1.0								
Chloroethane	< 1.0	1.0								
Chloroform	< 1.0	1.0								
Chloromethane	< 1.0	1.0								
cis-1,2-Dichloroethene	< 1.0	1.0								
cis-1,3-Dichloropropene	< 1.0	1.0								
Cyclohexane	< 1.0	1.0								
Dibromochloromethane	< 1.0	1.0								
Dichlorodifluoromethane	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MBLK	Sample ID: VBLKW-200526	Units: ug/L			Analysis Date: 26-May-2020 11:04					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596680		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	< 1.0	1.0								
m,p-Xylene	< 2.0	2.0								
Methyl acetate	< 1.0	1.0								
Methyl tert-butyl ether	< 1.0	1.0								
Methylcyclohexane	< 1.0	1.0								
Methylene chloride	< 2.0	2.0								
o-Xylene	< 1.0	1.0								
Styrene	< 1.0	1.0								
Tetrachloroethene	< 1.0	1.0								
Toluene	< 1.0	1.0								
trans-1,2-Dichloroethene	< 1.0	1.0								
trans-1,3-Dichloropropene	< 1.0	1.0								
Trichloroethene	< 1.0	1.0								
Trichlorofluoromethane	< 1.0	1.0								
Vinyl chloride	< 1.0	1.0								
Xylenes, Total	< 1.0	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	42.05	1.0	50	0	84.1	70 - 123				
<i>Surr: 4-Bromofluorobenzene</i>	48.37	1.0	50	0	96.7	82 - 115				
<i>Surr: Dibromofluoromethane</i>	47.75	1.0	50	0	95.5	73 - 126				
<i>Surr: Toluene-d8</i>	48.89	1.0	50	0	97.8	81 - 120				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-200526	Units: ug/L			Analysis Date: 26-May-2020 10:18					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596679	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.05	1.0	20	0	100	70 - 130				
1,1,2,2-Tetrachloroethane	19.27	1.0	20	0	96.3	70 - 120				
1,1,2-Trichlor-1,2,2-trifluoroethane	18.67	1.0	20	0	93.3	70 - 130				
1,1,2-Trichloroethane	19.57	1.0	20	0	97.9	77 - 113				
1,1-Dichloroethane	19.25	1.0	20	0	96.3	71 - 122				
1,1-Dichloroethene	19.99	1.0	20	0	99.9	70 - 130				
1,2,4-Trichlorobenzene	18.99	1.0	20	0	94.9	77 - 126				
1,2-Dibromo-3-chloropropane	16.09	1.0	20	0	80.4	70 - 130				
1,2-Dibromoethane	19.62	1.0	20	0	98.1	76 - 123				
1,2-Dichlorobenzene	19.61	1.0	20	0	98.0	77 - 113				
1,2-Dichloroethane	17.73	1.0	20	0	88.6	70 - 124				
1,2-Dichloropropane	19.51	1.0	20	0	97.5	72 - 119				
1,3-Dichlorobenzene	19.58	1.0	20	0	97.9	78 - 118				
1,4-Dichlorobenzene	18.83	1.0	20	0	94.2	79 - 113				
2-Butanone	35.3	2.0	40	0	88.2	70 - 130				
2-Hexanone	37.49	2.0	40	0	93.7	70 - 130				
4-Methyl-2-pentanone	41.43	2.0	40	0	104	70 - 130				
Acetone	32.99	2.0	40	0	82.5	70 - 130				
Benzene	18.24	1.0	20	0	91.2	74 - 120				
Bromodichloromethane	19.01	1.0	20	0	95.1	74 - 122				
Bromoform	19.58	1.0	20	0	97.9	73 - 128				
Bromomethane	22.7	1.0	20	0	113	70 - 130				
Carbon disulfide	36.72	2.0	40	0	91.8	70 - 130				
Carbon tetrachloride	18.54	1.0	20	0	92.7	71 - 125				
Chlorobenzene	18.98	1.0	20	0	94.9	76 - 113				
Chloroethane	18.95	1.0	20	0	94.7	70 - 130				
Chloroform	18.28	1.0	20	0	91.4	71 - 121				
Chloromethane	20.93	1.0	20	0	105	70 - 129				
cis-1,2-Dichloroethene	19.84	1.0	20	0	99.2	75 - 122				
cis-1,3-Dichloropropene	21.64	1.0	20	0	108	73 - 127				
Cyclohexane	18.74	1.0	20	0	93.7	70 - 130				
Dibromochloromethane	20.04	1.0	20	0	100	77 - 122				
Dichlorodifluoromethane	21.43	1.0	20	0	107	70 - 130				
Ethylbenzene	18.88	1.0	20	0	94.4	77 - 117				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-200526	Units: ug/L			Analysis Date: 26-May-2020 10:18					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596679		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	20.61	1.0	20	0	103	73 - 127				
m,p-Xylene	39.33	2.0	40	0	98.3	77 - 122				
Methyl acetate	17.55	1.0	20	0	87.8	76 - 122				
Methyl tert-butyl ether	14.62	1.0	20	0	73.1	70 - 130				
Methylcyclohexane	19.97	1.0	20	0	99.8	61 - 157				
Methylene chloride	18.8	2.0	20	0	94.0	70 - 127				
o-Xylene	19.7	1.0	20	0	98.5	75 - 119				
Styrene	19.99	1.0	20	0	99.9	72 - 126				
Tetrachloroethene	21.28	1.0	20	0	106	76 - 119				
Toluene	19.2	1.0	20	0	96.0	77 - 118				
trans-1,2-Dichloroethene	19.6	1.0	20	0	98.0	72 - 127				
trans-1,3-Dichloropropene	21.53	1.0	20	0	108	77 - 119				
Trichloroethene	20.11	1.0	20	0	101	77 - 121				
Trichlorofluoromethane	21.44	1.0	20	0	107	70 - 130				
Vinyl chloride	21.29	1.0	20	0	106	70 - 130				
Xylenes, Total	59.03	1.0	60	0	98.4	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.15</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.3</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.26</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.5</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>46.95</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>93.9</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>48.34</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.7</i>	<i>81 - 120</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MS	Sample ID: HS20050905-01MS	Units: ug/L			Analysis Date: 26-May-2020 13:01					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596685	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.41	1.0	20	0	102	70 - 130				
1,1,2,2-Tetrachloroethane	19.76	1.0	20	0	98.8	70 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	22.37	1.0	20	0	112	70 - 130				
1,1,2-Trichloroethane	20.26	1.0	20	0	101	70 - 117				
1,1-Dichloroethane	19.69	1.0	20	0	98.5	70 - 127				
1,1-Dichloroethene	23.66	1.0	20	0	118	70 - 130				
1,2,4-Trichlorobenzene	19.62	1.0	20	0	98.1	70 - 125				
1,2-Dibromo-3-chloropropane	16.33	1.0	20	0	81.7	70 - 130				
1,2-Dibromoethane	19.56	1.0	20	0	97.8	70 - 124				
1,2-Dichlorobenzene	20.68	1.0	20	0	103	70 - 115				
1,2-Dichloroethane	16.87	1.0	20	0	84.4	70 - 127				
1,2-Dichloropropane	20.19	1.0	20	0	101	70 - 122				
1,3-Dichlorobenzene	20.6	1.0	20	0	103	70 - 119				
1,4-Dichlorobenzene	19.73	1.0	20	0	98.6	70 - 114				
2-Butanone	35.65	2.0	40	0	89.1	70 - 130				
2-Hexanone	38.62	2.0	40	0	96.5	70 - 130				
4-Methyl-2-pentanone	42.45	2.0	40	0	106	70 - 130				
Acetone	37.52	2.0	40	0	93.8	70 - 130				
Benzene	18.61	1.0	20	0	93.0	70 - 127				
Bromodichloromethane	20	1.0	20	0	100.0	70 - 124				
Bromoform	19.76	1.0	20	0	98.8	70 - 129				
Bromomethane	24.97	1.0	20	0	125	70 - 130				
Carbon disulfide	42.05	2.0	40	0	105	70 - 130				
Carbon tetrachloride	19.9	1.0	20	0	99.5	70 - 130				
Chlorobenzene	20.05	1.0	20	0	100	70 - 114				
Chloroethane	22.15	1.0	20	0	111	70 - 130				
Chloroform	18.36	1.0	20	0	91.8	70 - 125				
Chloromethane	24	1.0	20	0	120	70 - 130				
cis-1,2-Dichloroethene	20.28	1.0	20	0	101	70 - 128				
cis-1,3-Dichloropropene	22.49	1.0	20	0	112	70 - 125				
Cyclohexane	17.98	1.0	20	0	89.9	70 - 130				
Dibromochloromethane	20.43	1.0	20	0	102	70 - 124				
Dichlorodifluoromethane	25.12	1.0	20	0	126	70 - 130				
Ethylbenzene	20.66	1.0	20	0	103	70 - 124				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MS	Sample ID: HS20050905-01MS	Units: ug/L			Analysis Date: 26-May-2020 13:01					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596685	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	22.23	1.0	20	0	111	70 - 130				
m,p-Xylene	41.94	2.0	40	0	105	70 - 130				
Methyl acetate	16.12	1.0	20	0	80.6	76 - 122				
Methyl tert-butyl ether	14.54	1.0	20	0	72.7	70 - 130				
Methylcyclohexane	20.05	1.0	20	0	100	61 - 158				
Methylene chloride	19.65	2.0	20	0	98.3	70 - 128				
o-Xylene	20.79	1.0	20	0	104	70 - 124				
Styrene	20.64	1.0	20	0	103	70 - 130				
Tetrachloroethene	23.9	1.0	20	0	119	70 - 130				
Toluene	21.28	1.0	20	1.085	101	70 - 123				
trans-1,2-Dichloroethene	20.79	1.0	20	0	104	70 - 130				
trans-1,3-Dichloropropene	22.48	1.0	20	0	112	70 - 121				
Trichloroethene	22.08	1.0	20	0	110	70 - 129				
Trichlorofluoromethane	25.14	1.0	20	0	126	70 - 130				
Vinyl chloride	24.92	1.0	20	0	125	70 - 130				
Xylenes, Total	62.73	1.0	60	0	105	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>42.97</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>85.9</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>47.91</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.8</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>45.43</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>90.9</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>48.67</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.3</i>	<i>82 - 127</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MSD	Sample ID: HS20050905-01MSD	Units: ug/L			Analysis Date: 26-May-2020 13:24					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596686	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.32	1.0	20	0	96.6	70 - 130	20.41	5.51	20	
1,1,2,2-Tetrachloroethane	19.3	1.0	20	0	96.5	70 - 123	19.76	2.35	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	19.87	1.0	20	0	99.4	70 - 130	22.37	11.8	20	
1,1,2-Trichloroethane	18.73	1.0	20	0	93.7	70 - 117	20.26	7.86	20	
1,1-Dichloroethane	18.2	1.0	20	0	91.0	70 - 127	19.69	7.9	20	
1,1-Dichloroethene	20.9	1.0	20	0	104	70 - 130	23.66	12.4	20	
1,2,4-Trichlorobenzene	20.16	1.0	20	0	101	70 - 125	19.62	2.7	20	
1,2-Dibromo-3-chloropropane	16.63	1.0	20	0	83.2	70 - 130	16.33	1.83	20	
1,2-Dibromoethane	18.79	1.0	20	0	94.0	70 - 124	19.56	4.01	20	
1,2-Dichlorobenzene	20.28	1.0	20	0	101	70 - 115	20.68	1.96	20	
1,2-Dichloroethane	16.34	1.0	20	0	81.7	70 - 127	16.87	3.24	20	
1,2-Dichloropropane	18.28	1.0	20	0	91.4	70 - 122	20.19	9.9	20	
1,3-Dichlorobenzene	20.07	1.0	20	0	100	70 - 119	20.6	2.58	20	
1,4-Dichlorobenzene	19.32	1.0	20	0	96.6	70 - 114	19.73	2.08	20	
2-Butanone	32.88	2.0	40	0	82.2	70 - 130	35.65	8.09	20	
2-Hexanone	35.99	2.0	40	0	90.0	70 - 130	38.62	7.04	20	
4-Methyl-2-pentanone	38.53	2.0	40	0	96.3	70 - 130	42.45	9.67	20	
Acetone	35.43	2.0	40	0	88.6	70 - 130	37.52	5.71	20	
Benzene	17.74	1.0	20	0	88.7	70 - 127	18.61	4.79	20	
Bromodichloromethane	18.3	1.0	20	0	91.5	70 - 124	20	8.85	20	
Bromoform	19.89	1.0	20	0	99.4	70 - 129	19.76	0.62	20	
Bromomethane	23.12	1.0	20	0	116	70 - 130	24.97	7.7	20	
Carbon disulfide	37.84	2.0	40	0	94.6	70 - 130	42.05	10.6	20	
Carbon tetrachloride	18.67	1.0	20	0	93.4	70 - 130	19.9	6.38	20	
Chlorobenzene	18.9	1.0	20	0	94.5	70 - 114	20.05	5.86	20	
Chloroethane	20.26	1.0	20	0	101	70 - 130	22.15	8.92	20	
Chloroform	16.96	1.0	20	0	84.8	70 - 125	18.36	7.88	20	
Chloromethane	22.25	1.0	20	0	111	70 - 130	24	7.58	20	
cis-1,2-Dichloroethene	19	1.0	20	0	95.0	70 - 128	20.28	6.54	20	
cis-1,3-Dichloropropene	20.43	1.0	20	0	102	70 - 125	22.49	9.58	20	
Cyclohexane	16.58	1.0	20	0	82.9	70 - 130	17.98	8.08	20	
Dibromochloromethane	19.71	1.0	20	0	98.6	70 - 124	20.43	3.57	20	
Dichlorodifluoromethane	22.25	1.0	20	0	111	70 - 130	25.12	12.1	20	
Ethylbenzene	18.76	1.0	20	0	93.8	70 - 124	20.66	9.65	20	

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362167 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MSD	Sample ID: HS20050905-01MSD	Units: ug/L			Analysis Date: 26-May-2020 13:24					
Client ID:	Run ID: VOA2_362167	SeqNo: 5596686		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	21	1.0	20	0	105	70 - 130	22.23	5.7	20	
m,p-Xylene	38.38	2.0	40	0	95.9	70 - 130	41.94	8.88	20	
Methyl acetate	15.43	1.0	20	0	77.2	76 - 122	16.12	4.36	20	
Methyl tert-butyl ether	13.77	1.0	20	0	68.8	70 - 130	14.54	5.46	20	S
Methylcyclohexane	17.77	1.0	20	0	88.8	61 - 158	20.05	12.1	20	
Methylene chloride	18.17	2.0	20	0	90.9	70 - 128	19.65	7.82	20	
o-Xylene	19.43	1.0	20	0	97.2	70 - 124	20.79	6.76	20	
Styrene	19.72	1.0	20	0	98.6	70 - 130	20.64	4.52	20	
Tetrachloroethene	22.32	1.0	20	0	112	70 - 130	23.9	6.84	20	
Toluene	19.91	1.0	20	1.085	94.1	70 - 123	21.28	6.65	20	
trans-1,2-Dichloroethene	19.16	1.0	20	0	95.8	70 - 130	20.79	8.13	20	
trans-1,3-Dichloropropene	20.38	1.0	20	0	102	70 - 121	22.48	9.82	20	
Trichloroethene	20.52	1.0	20	0	103	70 - 129	22.08	7.33	20	
Trichlorofluoromethane	22.79	1.0	20	0	114	70 - 130	25.14	9.8	20	
Vinyl chloride	22.7	1.0	20	0	113	70 - 130	24.92	9.32	20	
Xylenes, Total	57.81	1.0	60	0	96.3	70 - 130	62.73	8.17	20	
Surr: 1,2-Dichloroethane-d4	43.24	1.0	50	0	86.5	70 - 126	42.97	0.607	20	
Surr: 4-Bromofluorobenzene	48.11	1.0	50	0	96.2	81 - 113	47.91	0.418	20	
Surr: Dibromofluoromethane	46.01	1.0	50	0	92.0	77 - 123	45.43	1.28	20	
Surr: Toluene-d8	48.13	1.0	50	0	96.3	82 - 127	48.67	1.11	20	

The following samples were analyzed in this batch: HS20050835-14 HS20050835-22

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MBLK	Sample ID: VBLKS1-052720	Units: ug/Kg			Analysis Date: 27-May-2020 14:25					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598439	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	< 5.0	5.0								
1,1,2,2-Tetrachloroethane	< 5.0	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	< 5.0	5.0								
1,1,2-Trichloroethane	< 5.0	5.0								
1,1-Dichloroethane	< 5.0	5.0								
1,1-Dichloroethene	< 5.0	5.0								
1,2,4-Trichlorobenzene	< 5.0	5.0								
1,2-Dibromo-3-chloropropane	< 5.0	5.0								
1,2-Dibromoethane	< 5.0	5.0								
1,2-Dichlorobenzene	< 5.0	5.0								
1,2-Dichloroethane	< 5.0	5.0								
1,2-Dichloropropane	< 5.0	5.0								
1,3-Dichlorobenzene	< 5.0	5.0								
1,4-Dichlorobenzene	< 5.0	5.0								
2-Butanone	< 10	10								
2-Hexanone	< 10	10								
4-Methyl-2-pentanone	< 10	10								
Acetone	< 20	20								
Benzene	< 5.0	5.0								
Bromodichloromethane	< 5.0	5.0								
Bromoform	< 5.0	5.0								
Bromomethane	< 10	10								
Carbon disulfide	< 10	10								
Carbon tetrachloride	< 5.0	5.0								
Chlorobenzene	< 5.0	5.0								
Chloroethane	< 10	10								
Chloroform	< 5.0	5.0								
Chloromethane	< 10	10								
cis-1,2-Dichloroethene	< 5.0	5.0								
cis-1,3-Dichloropropene	< 5.0	5.0								
Cyclohexane	< 5.0	5.0								
Dibromochloromethane	< 5.0	5.0								
Dichlorodifluoromethane	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MBLK	Sample ID: VBLKS1-052720	Units: ug/Kg			Analysis Date: 27-May-2020 14:25					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598439		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	< 5.0	5.0								
m,p-Xylene	< 10	10								
Methyl acetate	< 5.0	5.0								
Methyl tert-butyl ether	< 5.0	5.0								
Methylcyclohexane	< 5.0	5.0								
Methylene chloride	< 10	10								
o-Xylene	< 5.0	5.0								
Styrene	< 5.0	5.0								
Tetrachloroethene	< 5.0	5.0								
Toluene	< 5.0	5.0								
trans-1,2-Dichloroethene	< 5.0	5.0								
trans-1,3-Dichloropropene	< 5.0	5.0								
Trichloroethene	< 5.0	5.0								
Trichlorofluoromethane	< 5.0	5.0								
Vinyl chloride	< 2.0	2.0								
Xylenes, Total	< 5.0	5.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.33</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>94.7</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.54</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>46.71</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>93.4</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>50.06</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 118</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
LCS	Sample ID: VLCSS1-052720	Units: ug/Kg			Analysis Date: 27-May-2020 13:35					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598438	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.63	5.0	50	0	89.3	72 - 130				
1,1,2,2-Tetrachloroethane	52.22	5.0	50	0	104	71 - 124				
1,1,2-Trichlor-1,2,2-trifluoroethane	45.19	5.0	50	0	90.4	70 - 130				
1,1,2-Trichloroethane	51.12	5.0	50	0	102	78 - 117				
1,1-Dichloroethane	48.55	5.0	50	0	97.1	76 - 128				
1,1-Dichloroethene	48.51	5.0	50	0	97.0	72 - 130				
1,2,4-Trichlorobenzene	50.57	5.0	50	0	101	70 - 128				
1,2-Dibromo-3-chloropropane	49.06	5.0	50	0	98.1	70 - 128				
1,2-Dibromoethane	52.28	5.0	50	0	105	78 - 120				
1,2-Dichlorobenzene	51.02	5.0	50	0	102	79 - 121				
1,2-Dichloroethane	50.2	5.0	50	0	100	77 - 120				
1,2-Dichloropropane	49.29	5.0	50	0	98.6	77 - 121				
1,3-Dichlorobenzene	50.76	5.0	50	0	102	78 - 121				
1,4-Dichlorobenzene	50.67	5.0	50	0	101	78 - 120				
2-Butanone	98.41	10	100	0	98.4	70 - 128				
2-Hexanone	90.79	10	100	0	90.8	72 - 127				
4-Methyl-2-pentanone	106.3	10	100	0	106	70 - 128				
Acetone	105	20	100	0	105	70 - 130				
Benzene	47.57	5.0	50	0	95.1	75 - 124				
Bromodichloromethane	46.11	5.0	50	0	92.2	78 - 122				
Bromoform	45.37	5.0	50	0	90.7	74 - 120				
Bromomethane	47.66	10	50	0	95.3	70 - 130				
Carbon disulfide	84.4	10	100	0	84.4	70 - 122				
Carbon tetrachloride	42.57	5.0	50	0	85.1	72 - 128				
Chlorobenzene	50.15	5.0	50	0	100	78 - 122				
Chloroethane	50.74	10	50	0	101	70 - 130				
Chloroform	49.12	5.0	50	0	98.2	73 - 127				
Chloromethane	49.73	10	50	0	99.5	70 - 130				
cis-1,2-Dichloroethene	48.81	5.0	50	0	97.6	77 - 125				
cis-1,3-Dichloropropene	43.68	5.0	50	0	87.4	78 - 122				
Cyclohexane	45.44	5.0	50	0	90.9	74 - 126				
Dibromochloromethane	43.55	5.0	50	0	87.1	78 - 120				
Dichlorodifluoromethane	49.02	5.0	50	0	98.0	70 - 130				
Ethylbenzene	50.14	5.0	50	0	100	70 - 123				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
LCS	Sample ID: VLCSS1-052720	Units: ug/Kg			Analysis Date: 27-May-2020 13:35					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598438		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	46.76	5.0	50	0	93.5	78 - 127				
m,p-Xylene	98.88	10	100	0	98.9	77 - 125				
Methyl acetate	45.51	5.0	50	0	91.0	69 - 123				
Methyl tert-butyl ether	47.59	5.0	50	0	95.2	70 - 128				
Methylcyclohexane	46.11	5.0	50	0	92.2	77 - 127				
Methylene chloride	58.91	10	50	0	118	71 - 125				
o-Xylene	50.55	5.0	50	0	101	78 - 122				
Styrene	52.86	5.0	50	0	106	80 - 123				
Tetrachloroethene	46.96	5.0	50	0	93.9	70 - 130				
Toluene	46.69	5.0	50	0	93.4	76 - 122				
trans-1,2-Dichloroethene	48.26	5.0	50	0	96.5	75 - 128				
trans-1,3-Dichloropropene	43.68	5.0	50	0	87.4	75 - 123				
Trichloroethene	51	5.0	50	0	102	78 - 125				
Trichlorofluoromethane	46.65	5.0	50	0	93.3	70 - 130				
Vinyl chloride	50.3	2.0	50	0	101	70 - 130				
Xylenes, Total	149.4	5.0	150	0	99.6	77 - 128				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.35</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.6</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.95</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>50.03</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 118</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MS	Sample ID: HS20050852-02MS	Units: ug/Kg			Analysis Date: 27-May-2020 15:40					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598442	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.41	5.0	50	0	82.8	70 - 130				
1,1,2,2-Tetrachloroethane	49.86	5.0	50	0	99.7	70 - 130				
1,1,2-Trichlor-1,2,2-trifluoroethane	38.84	5.0	50	0	77.7	70 - 130				
1,1,2-Trichloroethane	47.71	5.0	50	0	95.4	70 - 130				
1,1-Dichloroethane	45.71	5.0	50	0	91.4	70 - 130				
1,1-Dichloroethene	41.36	5.0	50	0	82.7	70 - 130				
1,2,4-Trichlorobenzene	30.49	5.0	50	0	61.0	70 - 130				S
1,2-Dibromo-3-chloropropane	45.82	5.0	50	0	91.6	70 - 130				
1,2-Dibromoethane	47.65	5.0	50	0	95.3	70 - 120				
1,2-Dichlorobenzene	38.94	5.0	50	0	77.9	70 - 130				
1,2-Dichloroethane	45.57	5.0	50	0	91.1	70 - 130				
1,2-Dichloropropane	44.91	5.0	50	0	89.8	70 - 130				
1,3-Dichlorobenzene	39.63	5.0	50	0	79.3	70 - 130				
1,4-Dichlorobenzene	39.54	5.0	50	0	79.1	70 - 130				
2-Butanone	109.2	10	100	0	109	70 - 130				
2-Hexanone	85.63	10	100	0	85.6	70 - 130				
4-Methyl-2-pentanone	102	10	100	0	102	70 - 128				
Acetone	231	20	100	69.5	161	70 - 130				S
Benzene	43.98	5.0	50	0	88.0	70 - 130				
Bromodichloromethane	39.99	5.0	50	0	80.0	70 - 130				
Bromoform	39.29	5.0	50	0	78.6	70 - 130				
Bromomethane	46.15	10	50	0	92.3	70 - 130				
Carbon disulfide	80.44	10	100	0	80.4	70 - 130				
Carbon tetrachloride	38.98	5.0	50	0	78.0	70 - 130				
Chlorobenzene	44.06	5.0	50	0	88.1	70 - 130				
Chloroethane	52.54	10	50	0	105	70 - 130				
Chloroform	45.61	5.0	50	0	91.2	70 - 130				
Chloromethane	46.81	10	50	0	93.6	70 - 130				
cis-1,2-Dichloroethene	45.18	5.0	50	0	90.4	70 - 130				
cis-1,3-Dichloropropene	38.28	5.0	50	0	76.6	70 - 130				
Cyclohexane	41.52	5.0	50	0	83.0	74 - 126				
Dibromochloromethane	38.85	5.0	50	0	77.7	70 - 130				
Dichlorodifluoromethane	46.5	5.0	50	0	93.0	70 - 130				
Ethylbenzene	44.59	5.0	50	0	89.2	70 - 130				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MS	Sample ID: HS20050852-02MS	Units: ug/Kg			Analysis Date: 27-May-2020 15:40					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598442	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	38.89	5.0	50	0	77.8	70 - 130				
m,p-Xylene	85.18	10	100	0	85.2	70 - 130				
Methyl acetate	46.28	5.0	50	0	92.6	69 - 123				
Methyl tert-butyl ether	43.42	5.0	50	0	86.8	70 - 130				
Methylcyclohexane	39.99	5.0	50	0	80.0	77 - 127				
Methylene chloride	69.02	10	50	0	138	70 - 130				S
o-Xylene	43.19	5.0	50	0	86.4	70 - 130				
Styrene	44.96	5.0	50	0	89.9	70 - 130				
Tetrachloroethene	42.31	5.0	50	0	84.6	70 - 130				
Toluene	43.87	5.0	50	0	87.7	70 - 130				
trans-1,2-Dichloroethene	45.77	5.0	50	0	91.5	70 - 130				
trans-1,3-Dichloropropene	38.28	5.0	50	0	76.6	70 - 130				
Trichloroethene	44.56	5.0	50	0	89.1	70 - 130				
Trichlorofluoromethane	44.77	5.0	50	0	89.5	70 - 130				
Vinyl chloride	47.85	2.0	50	0	95.7	70 - 130				
Xylenes, Total	128.4	5.0	150	0	85.6	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.4</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.69</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>99.4</i>	<i>70 - 130</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.13</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>70 - 130</i>				
<i>Surr: Toluene-d8</i>	<i>50.39</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 130</i>				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)										
Instrument: VOA5				Method: VOLATILES BY SW8260C						
MSD	Sample ID: HS20050852-02MSD	Units: ug/Kg			Analysis Date: 27-May-2020 16:05					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598443	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	42.66	5.0	50	0	85.3	70 - 130	41.41	2.98	30	
1,1,2,2-Tetrachloroethane	51.87	5.0	50	0	104	70 - 130	49.86	3.96	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	41.08	5.0	50	0	82.2	70 - 130	38.84	5.6	30	
1,1,2-Trichloroethane	48.14	5.0	50	0	96.3	70 - 130	47.71	0.882	30	
1,1-Dichloroethane	46.42	5.0	50	0	92.8	70 - 130	45.71	1.55	30	
1,1-Dichloroethene	42.32	5.0	50	0	84.6	70 - 130	41.36	2.3	30	
1,2,4-Trichlorobenzene	36.37	5.0	50	0	72.7	70 - 130	30.49	17.6	30	
1,2-Dibromo-3-chloropropane	47.05	5.0	50	0	94.1	70 - 130	45.82	2.66	30	
1,2-Dibromoethane	47.61	5.0	50	0	95.2	70 - 120	47.65	0.0819	30	
1,2-Dichlorobenzene	42.97	5.0	50	0	85.9	70 - 130	38.94	9.83	30	
1,2-Dichloroethane	47.1	5.0	50	0	94.2	70 - 130	45.57	3.31	30	
1,2-Dichloropropane	46.44	5.0	50	0	92.9	70 - 130	44.91	3.34	30	
1,3-Dichlorobenzene	43.34	5.0	50	0	86.7	70 - 130	39.63	8.94	30	
1,4-Dichlorobenzene	42.86	5.0	50	0	85.7	70 - 130	39.54	8.07	30	
2-Butanone	114.2	10	100	0	114	70 - 130	109.2	4.44	30	
2-Hexanone	86.58	10	100	0	86.6	70 - 130	85.63	1.1	30	
4-Methyl-2-pentanone	103.2	10	100	0	103	70 - 128	102	1.17	30	
Acetone	287.5	20	100	69.5	218	70 - 130	231	21.8	30	S
Benzene	45.66	5.0	50	0	91.3	70 - 130	43.98	3.74	30	
Bromodichloromethane	42.75	5.0	50	0	85.5	70 - 130	39.99	6.69	30	
Bromoform	41.38	5.0	50	0	82.8	70 - 130	39.29	5.19	30	
Bromomethane	47.71	10	50	0	95.4	70 - 130	46.15	3.34	30	
Carbon disulfide	83.09	10	100	0	83.1	70 - 130	80.44	3.23	30	
Carbon tetrachloride	41.25	5.0	50	0	82.5	70 - 130	38.98	5.66	30	
Chlorobenzene	46.83	5.0	50	0	93.7	70 - 130	44.06	6.09	30	
Chloroethane	53.14	10	50	0	106	70 - 130	52.54	1.13	30	
Chloroform	46.79	5.0	50	0	93.6	70 - 130	45.61	2.54	30	
Chloromethane	47.48	10	50	0	95.0	70 - 130	46.81	1.42	30	
cis-1,2-Dichloroethene	46.78	5.0	50	0	93.6	70 - 130	45.18	3.47	30	
cis-1,3-Dichloropropene	39.82	5.0	50	0	79.6	70 - 130	38.28	3.94	30	
Cyclohexane	42.83	5.0	50	0	85.7	74 - 126	41.52	3.09	30	
Dibromochloromethane	40.6	5.0	50	0	81.2	70 - 130	38.85	4.39	30	
Dichlorodifluoromethane	47.51	5.0	50	0	95.0	70 - 130	46.5	2.15	30	
Ethylbenzene	46.03	5.0	50	0	92.1	70 - 130	44.59	3.18	30	

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362239 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MSD	Sample ID: HS20050852-02MSD	Units: ug/Kg			Analysis Date: 27-May-2020 16:05					
Client ID:	Run ID: VOA5_362239	SeqNo: 5598443		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	41.95	5.0	50	0	83.9	70 - 130	38.89	7.58	30	
m,p-Xylene	90.86	10	100	0	90.9	70 - 130	85.18	6.44	30	
Methyl acetate	47.05	5.0	50	0	94.1	69 - 123	46.28	1.66	30	
Methyl tert-butyl ether	44.92	5.0	50	0	89.8	70 - 130	43.42	3.39	30	
Methylcyclohexane	42.75	5.0	50	0	85.5	77 - 127	39.99	6.69	30	
Methylene chloride	66.94	10	50	0	134	70 - 130	69.02	3.06	30	S
o-Xylene	45.64	5.0	50	0	91.3	70 - 130	43.19	5.51	30	
Styrene	47.68	5.0	50	0	95.4	70 - 130	44.96	5.89	30	
Tetrachloroethene	43.98	5.0	50	0	88.0	70 - 130	42.31	3.86	30	
Toluene	44.92	5.0	50	0	89.8	70 - 130	43.87	2.36	30	
trans-1,2-Dichloroethene	47.02	5.0	50	0	94.0	70 - 130	45.77	2.7	30	
trans-1,3-Dichloropropene	39.82	5.0	50	0	79.6	70 - 130	38.28	3.94	30	
Trichloroethene	46.25	5.0	50	0	92.5	70 - 130	44.56	3.72	30	
Trichlorofluoromethane	45.72	5.0	50	0	91.4	70 - 130	44.77	2.11	30	
Vinyl chloride	48.01	2.0	50	0	96.0	70 - 130	47.85	0.343	30	
Xylenes, Total	136.5	5.0	150	0	91.0	70 - 130	128.4	6.13	30	
Surr: 1,2-Dichloroethane-d4	49.79	0	50	0	99.6	70 - 126	50.4	1.22	30	
Surr: 4-Bromofluorobenzene	50.1	0	50	0	100	70 - 130	49.69	0.837	30	
Surr: Dibromofluoromethane	49.11	0	50	0	98.2	70 - 130	49.13	0.0393	30	
Surr: Toluene-d8	51.09	0	50	0	102	70 - 130	50.39	1.38	30	

The following samples were analyzed in this batch:

HS20050835-01	HS20050835-11	HS20050835-12	HS20050835-21
HS20050835-23	HS20050835-24		

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362241 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MBLK		Sample ID: VBLKS2-052720			Units: ug/Kg		Analysis Date: 28-May-2020 03:42			
Client ID:		Run ID: VOA5_362241			SeqNo: 5598491		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
m,p-Xylene	< 10	10								
Methyl tert-butyl ether	< 5.0	5.0								
o-Xylene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	48.3	0	50	0	96.6	76 - 125				
<i>Surr: 4-Bromofluorobenzene</i>	51.09	0	50	0	102	80 - 120				
<i>Surr: Dibromofluoromethane</i>	48.16	0	50	0	96.3	80 - 119				
<i>Surr: Toluene-d8</i>	52.67	0	50	0	105	81 - 118				

LCS		Sample ID: VLCSS2-052720			Units: ug/Kg		Analysis Date: 28-May-2020 02:52			
Client ID:		Run ID: VOA5_362241			SeqNo: 5598490		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.28	5.0	50	0	101	75 - 124				
Ethylbenzene	50.91	5.0	50	0	102	70 - 123				
m,p-Xylene	99.97	10	100	0	100.0	77 - 125				
Methyl tert-butyl ether	48.3	5.0	50	0	96.6	70 - 128				
o-Xylene	51.31	5.0	50	0	103	78 - 122				
Toluene	48.88	5.0	50	0	97.8	76 - 122				
Xylenes, Total	151.3	5.0	150	0	101	77 - 128				
<i>Surr: 1,2-Dichloroethane-d4</i>	53.71	0	50	0	107	76 - 125				
<i>Surr: 4-Bromofluorobenzene</i>	51.78	0	50	0	104	80 - 120				
<i>Surr: Dibromofluoromethane</i>	51.39	0	50	0	103	80 - 119				
<i>Surr: Toluene-d8</i>	51.6	0	50	0	103	81 - 118				

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362241 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MS		Sample ID: HS20050835-31MS			Units: ug/Kg		Analysis Date: 28-May-2020 07:26			
Client ID: EB-12		Run ID: VOA5_362241			SeqNo: 5598512		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.83	4.9	49	0	104	70 - 130				
Ethylbenzene	51.22	4.9	49	0	105	70 - 130				
m,p-Xylene	97.68	9.8	98	0	99.7	70 - 130				
Methyl tert-butyl ether	50.22	4.9	49	0	102	70 - 130				
o-Xylene	51.75	4.9	49	0	106	70 - 130				
Toluene	48.58	4.9	49	0	99.1	70 - 130				
Xylenes, Total	149.4	4.9	147	0	102	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>104</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.37</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>103</i>	<i>70 - 130</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.75</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>102</i>	<i>70 - 130</i>				
<i>Surr: Toluene-d8</i>	<i>49.77</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>102</i>	<i>70 - 130</i>				

MSD		Sample ID: HS20050835-31MSD			Units: ug/Kg		Analysis Date: 28-May-2020 07:51			
Client ID: EB-12		Run ID: VOA5_362241			SeqNo: 5598513		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.4	4.9	49	0	98.8	70 - 130	50.83	4.91	30	
Ethylbenzene	48.58	4.9	49	0	99.1	70 - 130	51.22	5.3	30	
m,p-Xylene	94.46	9.8	98	0	96.4	70 - 130	97.68	3.36	30	
Methyl tert-butyl ether	47.23	4.9	49	0	96.4	70 - 130	50.22	6.14	30	
o-Xylene	49.53	4.9	49	0	101	70 - 130	51.75	4.38	30	
Toluene	47	4.9	49	0	95.9	70 - 130	48.58	3.32	30	
Xylenes, Total	144	4.9	147	0	97.9	70 - 130	149.4	3.71	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.71</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>103</i>	<i>70 - 126</i>	<i>51</i>	<i>0.572</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.17</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>102</i>	<i>70 - 130</i>	<i>50.37</i>	<i>0.403</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>49.1</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>100</i>	<i>70 - 130</i>	<i>49.75</i>	<i>1.32</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>50.56</i>	<i>0</i>	<i>49</i>	<i>0</i>	<i>103</i>	<i>70 - 130</i>	<i>49.77</i>	<i>1.59</i>	<i>30</i>	

The following samples were analyzed in this batch: HS20050835-19 HS20050835-20 HS20050835-25 HS20050835-26
 HS20050835-30 HS20050835-31

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R361984 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B						
DUP	Sample ID: HS20050640-01DUP	Units: °F		Analysis Date: 22-May-2020 09:30						
Client ID:	Run ID: WetChem_HS_361984	SeqNo: 5592883	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flash Point	> 212	50.0					0	0	30	
-------------	-------	------	--	--	--	--	---	---	----	--

The following samples were analyzed in this batch:

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362020 (0) **Instrument:** WetChem_HS **Method:** REACTIVE SULFIDE

MBLK	Sample ID: MBLK-R362020	Units: mg/Kg		Analysis Date: 22-May-2020 13:00						
Client ID:	Run ID: WetChem_HS_362020	SeqNo: 5593455	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	

Reactive Sulfide < 100 100

LCS	Sample ID: LCS-R362020	Units: mg/Kg		Analysis Date: 22-May-2020 13:00						
Client ID:	Run ID: WetChem_HS_362020	SeqNo: 5593454	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	

Reactive Sulfide 64 100 100 0 64.0 20 - 120 J

MS	Sample ID: HS20050815-01MS	Units: mg/Kg		Analysis Date: 22-May-2020 13:00						
Client ID:	Run ID: WetChem_HS_362020	SeqNo: 5593456	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	

Reactive Sulfide 56 100 100 -8 64.0 20 - 120 J

The following samples were analyzed in this batch: HS20050835-28

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362025 (0)	Instrument: UV-2450	Method: REACTIVE CYANIDE
--------------------------------	----------------------------	---------------------------------

MBLK	Sample ID: MBLK-R362025	Units: mg/Kg	Analysis Date: 22-May-2020 14:30							
Client ID:	Run ID: UV-2450_362025	SeqNo: 5593531	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Cyanide < 100 100

LCS	Sample ID: LCS-R362025	Units: mg/Kg	Analysis Date: 22-May-2020 14:30							
Client ID:	Run ID: UV-2450_362025	SeqNo: 5593530	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Cyanide 0.66 100 10 0 6.60 5 - 100 J

MS	Sample ID: HS20050815-01MS	Units: mg/Kg	Analysis Date: 22-May-2020 14:30							
Client ID:	Run ID: UV-2450_362025	SeqNo: 5593532	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Cyanide 0.64 100 10 0.02 6.20 5 - 100 J

The following samples were analyzed in this batch:

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362086 (0) **Instrument:** Balance1 **Method:** MOISTURE

DUP Sample ID: **HS20050835-25DUP** Units: **wt%** Analysis Date: **23-May-2020 15:23**
Client ID: **EB-23 (8-12)** **Run ID:** **Balance1_362086** **SeqNo:** **5594930** **PrepDate:** **DF:** **1**
Analyte **Result** **PQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%RPD** **RPD Limit** **Qual**

Percent Moisture 18.1 0.0100 17.8 1.67 20

The following samples were analyzed in this batch:

HS20050835-01	HS20050835-02	HS20050835-03	HS20050835-04
HS20050835-05	HS20050835-06	HS20050835-07	HS20050835-08
HS20050835-09	HS20050835-10	HS20050835-11	HS20050835-12
HS20050835-16	HS20050835-17	HS20050835-19	HS20050835-20
HS20050835-21	HS20050835-23	HS20050835-24	HS20050835-25

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362147 (0) **Instrument:** WetChem_HS **Method:** PH SOIL BY SW9045D

DUP Sample ID: **HS20050903-02DUP** Units: **pH Units** Analysis Date: **26-May-2020 15:35**
 Client ID: Run ID: **WetChem_HS_362147** SeqNo: **5596111** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	7.74	0.100						7.8	0.772	10
Temp Deg C @pH	21.4	0						21.2	0.939	10

The following samples were analyzed in this batch:

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

QC BATCH REPORT

Batch ID: R362174 (0)		Instrument: Balance1		Method: MOISTURE					
DUP	Sample ID: HS20050814-06DUP	Units: wt%		Analysis Date: 26-May-2020 11:29					
Client ID:	Run ID: Balance1_362174	SeqNo: 5596827		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Percent Moisture	20.5	0.0100					21.2	3.36	20
------------------	------	--------	--	--	--	--	------	------	----

The following samples were analyzed in this batch:

HS20050835-26	HS20050835-31
---------------	---------------

Client: HVJ Associates
Project: Phase II ESA project
WorkOrder: HS20050835

**QUALIFIERS,
ACRONYMS, UNITS**

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	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
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/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
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
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Kansas	E-10352 2019-2020	31-Jul-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Sample Receipt Checklist

Work Order ID: HS20050835

Date/Time Received: 21-May-2020 15:57

Client Name: HVJ HOU

Received by: Paresh M. Giga

Completed By: /S/ Jared R. Makan 21-May-2020 19:10 Reviewed by: _____
 eSignature Date/Time eSignature Date/Time

Matrices: **Water, Soil**

Carrier name: **Client**

- 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
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? 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

4 Page(s)
 COC IDs:222067, 222065,
 222066, 222064

Temperature(s)/Thermometer(s): 3.4°C/3.4°C, 2.5°C/2.5°C, 3.2°C/3.2°C, 1.9°C/1.9°C IR25
 UC/C

Cooler(s)/Kit(s): 45081, 45141, 43986, 45968

Date/Time sample(s) sent to storage: 05/21/2020 19:15

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: Samples EB-12 (Soil) & EB-14 (Water) received, not listed on COCs. Samples logged in for analysis.

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Sample Receipt Checklist

Work Order ID: HS20050835

Date/Time Received: 21-May-2020 15:57

Client Name: HVJ HOU

Received by: Paresh M. Giga

Completed By: /S/ Jared R. Makan 21-May-2020 19:18 Reviewed by: eSignature Date/Time eSignature Date/Time

Matrices: Water, Soil Carrier name: Client

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

4 Page(s)
COC IDs:222067, 222065, 222066, 222064

Temperature(s)/Thermometer(s): 3.4°C/3.4°C, 2.5°C/2.5°C, 3.2°C/3.2°C, 1.9°C/1.9°C UC/C IR25

Cooler(s)/Kit(s): 45081, 45141, 43986, 45968

Date/Time sample(s) sent to storage: 05/21/2020 19:15

Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []

Water - pH acceptable upon receipt? Yes [] No [] N/A [checked]

pH adjusted? Yes [] No [] N/A [checked]

pH adjusted by:

Login Notes: The following sample collection times differ:
COC Sample
EB-10 (4-8) 12.25 12:35
EB-14 (4-8) 13.30 13:00
EB-1 (8-12) 09:45 09:16
EB-18 (8-12) 10.32 11:32
EB-23 (8-12) 11:26 11:29
Logged in per COC.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Page 1 of 4

COC ID: 222067

HS20050835

HVJ Associates
Phase II ESA project



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:	
Purchase Order		Project Name	Phase II ESA project	A	8260 (5035/8260 BTEX & MTBE)
Work Order		Project Number	HE2010043	B	8260 (TCL 4.3 VOC (5035/8260))
Company Name	HVJ Associates	Bill To Company	HVJ Associates	C	TX1005 (TPH)
Send Report To	Ed Hawkinson	Invoice Attn	Ed Hawkinson	D	1311_METALS_HS (TCLP RCRA 11 Metals)
Address	6120 S. Dairy Ashford Rd.	Address	6120 S. Dairy Ashford Rd.	E	1311_VOC (TCLP VOC)
				F	1311_SV (TCLP SVOC)
City/State/Zip	Houston, TX 770721010	City/State/Zip	Houston TX 770721010	G	RCI
Phone	(281) 983-8829	Phone	(281) 983-8829	H	8260_S BTEX
Fax	(281) 983-7293	Fax	(281) 983-7293	I	Moisture
e-Mail Address	ehawkinson@hvj.com	e-Mail Address	ehawkinson@hvj.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	EB-7 (8-12)	5/20/20	11:26a	Soil		6	2	1	2						1		
2	EB-8 (0-4)	5/20/20	11:45a	Soil		6	2	1	2						1		
3	EB-9 (0-4)	5/20/20	12:18p	Soil		6	2	1	2						1		
4	EB-10 (4-8)	5/20/20	12:25p	Soil		6	2	1	2						1		
5	EB-11 (8-12)	5/20/20	1:51p	Soil		6	2	1	2						1		
6	EB-14 (4-8)	5/20/20	1:30p	Soil		6	2	1	2						1		
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign
 Alexandra Milne *Alexandra Milne*

Shipment Method _____ Required Turnaround Time: (Check Box)
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Results Due Date: _____

Relinquished by: *[Signature]* Date: 5/21/20 Time: 15:57
 Received by: *[Signature]*

Relinquished by: _____ Date: _____ Time: _____
 Received by (Laboratory): _____

Logged by (Laboratory): _____ Date: _____ Time: _____
 Checked by (Laboratory): _____

Notes: Phase II ESA project

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
45581	3.4°	<input checked="" type="checkbox"/> Level II Std OC <input type="checkbox"/> TRRP Checklist
45141	2.5°	<input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV
43986	3.2°	<input type="checkbox"/> Level IV SW846/CLP
45968	1.9°	<input type="checkbox"/> Other

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Chain of Custody Form

Page 2 of 4

COC ID: 222065

HS20050835

HVJ Associates
Phase II ESA project



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:													
Purchase Order		Project Name	Phase II ESA project	A	8260 (5035/8260 BTEX & MTBE)												
Work Order		Project Number	HE2010043	B	8260 (TCL 4.3 VOC (5035/8260))												
Company Name	HVJ Associates	Bill To Company	HVJ Associates	C	TX1005 (TPH)												
Send Report To	Ed Hawkinson	Invoice Attn	Ed Hawkinson	D	1311_METALS_HS (TCLP RCRA 11 Metals)												
Address	6120 S. Dairy Ashford Rd.	Address	6120 S. Dairy Ashford Rd.	E	1311_VOC (TCLP VOC)												
				F	1311_SV (TCLP SVOC)												
				G	RCI												
City/State/Zip	Houston, TX 770721010	City/State/Zip	Houston TX 770721010	H	8260_S BTEX												
Phone	(281) 983-8829	Phone	(281) 983-8829	I	Moisture												
Fax	(281) 983-7293	Fax	(281) 983-7293	J	MTBE 8260												
e-Mail Address	ehawkinson@hvj.com	e-Mail Address	ehawkinson@hvj.com														

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	EB-1 (0-4)	5/20/20	9:16a	Soil		6	2	1	2								
2	EB-2 (0-4)	5/20/20	9:45a	Soil		6	2	1	2						1		
3	EB-3 (0-4)	5/20/20	9:57a	Soil		6	2	1	2						1		
4	EB-4 (4-8)	5/20/20	10:24a	Soil		6	2	1	2						1		
5	EB-5 (4-8)	5/20/20	10:44a	Soil		6	2	1	2						1		
6	EB-6 (4-8)	5/20/20	11:08a	Soil		6	2	1	2						1		
7	EB-1 (8-12)	5/20/20	9:45a	Water		6									1		
8	EB-5 (8-12)	5/20/20	10:51a	Water		6			3								3
9	EB-8 (8-12)	5/20/20	11:58a	Water		6			3								3
10						6			3								3

Sampler(s) Please Print & Sign
 Alexandra Milne *Alexandra Milne*

Relinquished by: *usibo* Date: 5/21/20 Time: 15:57 Received by: *[Signature]*

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): _____

Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): *[Signature]* 5/21/2020 15:57

Shipment Method _____ Required Turnaround Time: (Check Box)
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Results Due Date: _____

Notes: Phase II ESA project

QC Package: (Check One Box Below)
 Level II Std OC TRRP Checklist
 Level III Std QC/Raw Data TRRP Level IV
 Level IV SW/646/CLP
 Other _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

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Chain of Custody Form

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COC ID: 222066

HS20050835

HVJ Associates
Phase II ESA project



ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Phase II ESA project
Work Order		Project Number	HE2010043
Company Name	HVJ Associates	Bill To Company	HVJ Associates
Send Report To	Ed Hawkinson	Invoice Attn	Ed Hawkinson
Address	6120 S. Dairy Ashford Rd.	Address	6120 S. Dairy Ashford Rd.
City/State/Zip	Houston, TX 770721010	City/State/Zip	Houston TX 770721010
Phone	(281) 983-8829	Phone	(281) 983-8829
Fax	(281) 983-7293	Fax	(281) 983-7293
e-Mail Address	ehawkinson@hvj.com	e-Mail Address	ehawkinson@hvj.com

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	EB-13 (0-4)	5/21/20	9:00 a	Soil		6	2	1	2								
2	EB-15 (8-12)	5/21/20	9:26 a	Soil		6	2	1	2						1		
3	EB-15 (8-12)	5/21/20	9:26 a	water		6			3						1		
4	EB-16 (4-8)	5/21/20	9:51 a	soil		6	2	1	2							3	
5	EB-17 (4-8)	5/21/20	10:07 a	soil		6	2	1	2						1		
6	EB-18 (4-8)	5/21/20	10:26 a	soil		6	2	1	2						1		
7	EB-18 (8-12)	5/21/20	10:32 a	water		6			3						1		
8	EB-19 (0-4)	5/21/20	10:51 a	Soil		6	2	1	2							3	
9	EB-20 (0-4)	5/21/20	11:06 a	soil		6	2	1	2						1		
10	EB-23 (8-12)	5/21/20	11:26 a	soil		6	2	1	2						1		

Sampler(s) Please Print & Sign
 Alexandra Milne *Alexandra Milne*

Relinquished by: *[Signature]* Date: 5/21/20 Time: 15:57

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: 5/21/20 Time: 15:57

Received by (Laboratory): _____

Checked by (Laboratory): _____

Shipment Method: _____

Required Turnaround Time: (Check Box)
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Other: _____

Results Due Date: _____

Notes: Phase II ESA project

QC Package: (Check One Box Below)
 Level II Std QC TRRP Check/ist
 Level III Std QC/Raw Data TRRP Level IV
 Level IV SWB46/CLP
 Other

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

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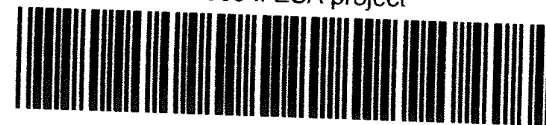
Chain of Custody Form

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COC ID: 222064

HS20050835

HVJ Associates
Phase II ESA project



ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Phase II ESA project
Work Order		Project Number	HG2010043
Company Name	HVJ Associates	Bill To Company	HVJ Associates
Send Report To	Ed Hawkinson	Invoice Attn	Ed Hawkinson
Address	6120 S. Dairy Ashford Rd.	Address	6120 S. Dairy Ashford Rd.
City/State/Zip	Houston, TX 770721010	City/State/Zip	Houston TX 770721010
Phone	(281) 983-8829	Phone	(281) 983-8829
Fax	(281) 983-7293	Fax	(281) 983-7293
e-Mail Address	ehawkinson@hvj.com	e-Mail Address	ehawkinson@hvj.com

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	EB-22 (4-8)	5/21/20	11:50a	Soil		6	2	1	2								
2	EB-22 (8-12)	5/21/20	11:54a	wate		6			3						1		
3	Composite I	5/21/20	12:00p	Soil		1		1			X		X		3		
4	Composite II	5/21/20	12:00p	Soil		1				X		X					
5	Composite III	5/21/20	12:00p	Soil		1			X					X		X	
6									X					X		X	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign
 Alexandra Milne *Alexandra Milne*

Relinquished by: *Zusko* Date: 5/21/20 Time: 15:57

Relinquished by: _____ Date: _____ Time: _____

Logged by (Laboratory): _____ Date: _____ Time: _____

Shipment Method: _____

Required Turnaround Time: (Check Box)
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Received by: *[Signature]* Date: 5/21/2020 Time: 15:57


Received by (Laboratory): _____
 Checked by (Laboratory): _____

Notes: Phase II ESA project


QC Package: (Check One Box Below)
 Level II Std QC TRRP Checklist
 Level III Std QC/Raw Data TRRP Level IV
 Level IV SW846/CLP
 Other

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035


- ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: <u>5/21/20</u> Time: <u>3:08 P</u> Name: <u>Alexandra Milne</u> Company: <u>HVS HOV</u>		Date:

45081 MAY 21 2020

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: <u>5/21/20</u> Time: <u>3:08 P</u> Name: <u>Alexandra Milne</u> Company: <u>HVS HOV</u>		Date:

43986 MAY 21 2020

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: <u>5/21/20</u> Time: <u>3:08 P</u> Name: <u>Alexandra Milne</u> Company: <u>HVS HOV</u>		Date:

45968 MAY 21 2020

APPENDIX C
WASTE DISPOSAL DOCUMENTATION

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CE906	2. Page 1 of 1	3. Emergency Response Phone (877) 577-2669	4. Waste Tracking Number 470755-19	
5. Generator's Name and Mailing Address HVJ Associates 6120 South Dairy Ashford Houston TX 77077 Generator's Phone: (281) 983-8825			Generator's Site Address (if different than mailing address) HVJ Associates 5 Dairy Ashford 6120 S DAIRY ASHFORD RD HOUSTON TX 77077-1018			
6. Transporter 1 Company Name STERICYCLE SPECIALTY WASTE SOLUTIONS INC					U.S. EPA ID Number MNS000110924	
7. Transporter 2 Company Name STERRIS (USA) PRODUCTS					U.S. EPA ID Number TXR000024784	
8. Designated Facility Name and Site Address SEAWEEZE EMV LANDFILL 10310 FM 523 ANGLETON, TX 77515 (879) 866-4442					U.S. EPA ID Number EXE	
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1.	NON REGULATED MATERIAL (CLASS II SOIL CUTTINGS)	001	DM	100	P
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information (1) SRI9976-00 - 10W SOIL CUTTINGS-CL						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name			Signature		Month Day Year 09/06/19	
INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____			
	16. Transporter Acknowledgment of Receipt of Materials					
TRANSPORTER	Transporter 1 Printed/Typed Name JIG ARRILLU		Signature		Month Day Year 09/06/19	
	Transporter 2 Printed/Typed Name Robert Ramirez		Signature		Month Day Year 9/16/19	
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator)					Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name Zaida Delgado			Signature		Month Day Year 9/25/19	