

**PHASE II
ENVIRONMENTAL SITE ASSESSMENT
MLK RECONSTRUCTION PROJECT
WBS NO. N-000801-0001-3
HOUSTON, HARRIS COUNTY, TEXAS**





**PHASE II
ENVIRONMENTAL SITE ASSESSMENT
MLK RECONSTRUCTION PROJECT
WBS NO. N-000801-0001-3
HOUSTON, HARRIS COUNTY, TEXAS**

**PREPARED FOR:
ATKINS
1250 WOOD BRANCH PARK DRIVE, SUITE 300
HOUSTON, TX 77079**

**PREPARED BY:
HVJ ASSOCIATES, INC.
HOUSTON, TEXAS
SEPTEMBER 6, 2013**

REPORT NO. HE1018381



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September 6, 2013

Phillip M. Williams, PE
 Senior Project Manager, Transportation Design
 ATKINS
 1250 Wood Branch Park Drive, Suite 300
 Houston, TX 77079

Re: Phase II Environmental Site Assessment (ESA)
 MLK Reconstruction Project
 WBS No. N-000801-0001-3
 Owner: City of Houston
 HVJ Project No. HE1018381

Dear Mr. Williams:

Presented herein is our draft Phase II Environmental Site Assessment report for the above referenced project. The assessment was performed in general accordance with our Proposal No. HE1018381 dated February 26, 2013 (revised May 1, 2013); current ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process" as modified by the City of Houston (COH) Public Works and Engineering Infrastructure Design Manual "Geotechnical and Environmental Requirements" (July 2012).

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
 Project Manager

MM/ZA/EH/NL

Copies submitted: 2 draft

The following lists the pages which complete this report:	
• Main Text – 14 pages	• Appendix B – 28 pages
• Plates – 6 pages	• Appendix C – 70 pages
• Appendix A – 44	• Appendix D – 2 pages

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EXECUTIVE SUMMARY

HVJ Associates, Inc. has completed a Phase II ESA in areas designated for the proposed construction of sanitary sewer and water lined along MLK Blvd. from IH-610 to Bellfort in Houston, Texas. We understand that the depth to the top of the proposed sanitary sewer lines will range from about 17 to 18 feet below site grade and may be slightly deeper if the ROW line to the bottom of the manhole is considered. Water lines in general will be 5 to 7 feet below site grade; however, at the intersection the line could be as deep as 15 to 20 feet to avoid utility line conflicts. A site vicinity map is provided as Plate 1.

The objective of the investigation is to determine the nature of possible environmental contamination associated with eight sites found to have recognized environmental conditions (RECs) and to determine if soil and/or groundwater contamination from these tank locations might impact the design and construction of the proposed project. Based on information contained in the Phase I ESA for this project it was determined that impacts (if any) to the Subject Project Alignment could be assessed with 27 borings.

This assessment was performed in general accordance with our Proposal No. HE1018381 dated February 26, 2013 (revised May 1, 2013) and current ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process" as modified by the City of Houston (COH) Public Works and Engineering Infrastructure Design Manual "Geotechnical and Environmental Requirements" (July 2012).

The available information for this Subject Project Alignment and subsurface investigation, conducted during June 2013 are summarized below:

- Twenty seven borings were drilled using Geoprobe soil boring equipment at locations with recognized environmental conditions (RECs) along the Subject Project Alignment. These borings were drilled between the REC sites and the Subject Project Alignment.
- One soil sample from each boring was obtained for laboratory analysis of chemicals of concern (COCs). Four groundwater samples were obtained for laboratory analysis of COCs.
- The subsurface soils generally consist of (in general) fill materials, clay, sandy clay and fine sand.
- Benzene, toluene, ethylbenzene, xylene (BTEX), methyl-tert Butyl ether (MTBE), other volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) were found above the analytical method reporting limit in several samples collected along the Subject Project Alignment.

It is likely that the majority of the soils will be non-hazardous and possible that some soil excavated during construction along the Subject Project Alignment will require special handling. Using the City of Houston criteria, potentially petroleum contaminated areas (PPCAs) were identified along Martin Luther King Blvd. between Stations 100+00 and 106+00 (PPCA 1), 122+00 and 133+00 (PPCA 2), 146+50 and 151+00 (PPCA 3), 167+10 and 169+20 (PPCA 4) and 175+00 and 175+78 (PPCA 5). During construction, a decision regarding PPCA soil classification will be made after the analysis of stockpiled soil. Plate 3 shows the location of the five PPCAs. The City of Houston Guide Specifications 02105 (03-18-2005) Chemical Sampling and Analysis and 02120 (03-18-2005) Transportation and Disposal for construction defines a potentially petroleum contaminated area (PPCA) as "an area within station-to-station locations identified on drawings where petroleum contamination has been detected in soil or groundwater."

Based on the results of this assessment, we recommend no further soil testing of the REC areas 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 the City of Houston to perform a Phase II Environmental Site Assessment (ESA) for improvements project in the MLK area. A site vicinity map is provided as Plate 1. The objective of the assessment was to determine the nature of possible environmental contamination associated with these “possible high impact” locations of potential concern and their effect on the design, construction and operation of the proposed construction. Based on recommendations contained in a December 2011 Phase I Environmental Site Assessment for the project area conducted by another consultant we assessed sites with recognized environmental conditions (RECs) along the Subject Project Alignment with 27 borings near these REC locations. The assessment was done in accordance with City of Houston, Department of Public Works and Engineering Infrastructure Design Manual Chapter 11 “Geotechnical and Environmental Requirements” and the current ASTM Standard Practice E-1903 - 97 (2002) “Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process.” The sites to be assessed, chemicals of concern and a brief description of concern documentation are listed in Table 1 below.

Table 1		
MLK Reconstruction Project Environmental Issues		
Name and Location of Concern	Chemicals of Concern	Concern Documentation/Comment
Former Stop N Go 6408 MLK Blvd.	BTEX+MTBE and TPH	Documented LPST site with historical release of petroleum hydrocarbons in close proximity to the project alignment.
Former Shell Gas Station 6532 MLK Blvd.	BTEX+MTBE and TPH	Documented LPST site with historical release of petroleum hydrocarbons in close proximity to the project alignment.
AFC Enterprises Site (former UST facility) 6830 MLK Blvd.	BTEX+MTBE and TPH	Documented UST site (with no documented historical release of petroleum hydrocarbons) in close proximity to the project alignment.
King Food Mart Citgo 7111 MLK Blvd.	BTEX+MTBE and TPH	Documented LPST site with historical release of petroleum hydrocarbons in close proximity to the project alignment and continued storage of petroleum on site.
Former Gulf Gas Station 7446 MLK Blvd.	BTEX+MTBE and TPH	Documented LPST site with historical release of petroleum hydrocarbons in close proximity to the project alignment.
Shell Gas Station 8037 MLK Blvd.	BTEX+MTBE and TPH	Documented LPST site with historical release of petroleum hydrocarbons in close proximity to the project alignment.
Redi Mart Gas Station 8103 MLK Blvd.	BTEX+MTBE and TPH	Documented LPST site with historical release of petroleum hydrocarbons in close proximity to the project alignment.
Former Edgewood Shopping Center and Norma’s Plaza Apartments 7502/7506 MLK Blvd.	BTEX+MTBE and TPH	Based on soil disturbances documented on aerial photos, unidentified historical development, city directory and other data these large tracts may contain potential recognized environmental condition(s).

The objective of the assessment was to determine the nature of possible environmental contamination associated with the REC locations along the Subject Project Alignment. Groundwater was encountered in sufficient quantity for sampling at four boring locations.

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. Obtained City of Houston facility permits for all boring locations. Copies of these permits and related documents are provided in Appendix A.
3. Drilled 27 borings to depths ranging from 6.5 to 20 feet below ground surface (bgs) five feet below the proposed depth of construction or to the top of the water table. We encountered auger refusal at two locations (borings EB1 and EB26). All borings were installed using Geoprobe equipment.
4. Performed soil sample field screening with an organic vapor meter (OVM) and obtained selected samples for subsequent laboratory analyses.
5. Collected groundwater samples at the four locations of concern for analysis. Temporary groundwater monitoring wells were not installed at all boring locations as a cost saving measure in accordance with COH Design Manual Chapter 11. Groundwater sampling occurred at locations with sufficient groundwater for sampling.
6. Prepared boring logs (copies of these logs are provided in Appendix B).
7. Submitted selected samples to A&B Laboratory for the appropriate analysis depending on the location. See Table 2 for boring location and number, maximum depth of construction, boring depth and analysis conducted (laboratory data sheets, QA/QC documentation and chain-of-custody form are provided in Appendix C).
8. Coordinated petroleum contaminated drill cuttings and related drummed non-hazardous waste disposal. Waste disposal is currently pending disposal approval and transportation to a state approved landfill. Waste disposal documentation will be provided in Appendix D of our final report.
9. 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 at the REC locations, 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 investigator 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 Arkansas, Tennessee and Texas. His career encompasses a period exceeding 30 years involving environmental investigations, hydrogeology, water resource evaluations and energy exploration.

2. BACKGROUND INFORMATION

2.1 Results of Previous Environmental Studies

A December 2011 Phase I ESA "Street Construction of Martin Luther King Boulevard" prepared by another consultant identified eight sites of environmental concern along the Subject Project Alignment. These sites were determined to have a possible impact to the Subject Project Alignment area. The Phase I ESA report contained the following information:

1. Environmental regulatory agency summary records were obtained for regulated environmental sites near the Subject Project Alignment area. Following initial review, additional information was obtained through file reviews, field observations and interviews.
2. Available historical topographic maps, aerial photographs, well and pipeline data and city directories were obtained and reviewed to determine if current or prior land owners/occupants may have engaged in activities on adjacent properties that may have been an environmental concern.
3. Available geologic literature was reviewed to characterize the geologic, physiographic, and hydrogeologic setting to determine potential release pathways.
4. An on-site reconnaissance of Subject Project Alignment and the adjoining properties was performed to conduct interviews, verify environmental and historical records, identify hazardous substance and petroleum product storage areas and any obvious signs of environmental releases, identify current land-use activities and discover potential areas of environmental concern based on current conditions and development.
5. Interviews were conducted to obtain information relevant to the Subject Project Alignment and adjoining properties.

2.2 Planned Construction Description

The project area is designated for the proposed construction of sanitary sewer and water lines along MLK Blvd. from IH-610 to Bellfort in Houston, Texas. The depth to the top of the proposed sanitary sewer lines will range from about 17 to 18 feet below site grade and may be slightly deeper if the ROW line to the bottom of the manhole is considered. Water lines in general will be 5 to 7 feet below site grade; however, at the intersection the line could be as deep as 15 to 20 feet to avoid utility line conflicts. Based on the Phase I ESA findings, HVJ Associates recommended further environmental study of the REC locations along the Subject Project Alignment if the proposed project construction activity involves excavation deeper than five feet below the existing grade.

3. INVESTIGATIVE METHODOLOGY

3.1 Soil Boring Sampling Activities

HVJ Associates performed this assessment 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) as modified by the City of Houston Public Works and Infrastructure Design Manual "Geotechnical and Environmental Requirements" (July 2012). Prior to conducting our on-site investigation, City of Houston maps were reviewed to determine the location of water and sewer utilities in the project area. Texas One-Call was contacted to mark other near surface utilities in the Subject Project Alignment area.

Based on HVJ Associates' understanding of the proposed construction plans, borings were installed to total depths ranging from 6.5 to 20 feet bgs. The proposed boring/well depths were based on information provided by ATKINS. Borings were spaced at regular intervals between the former large tank locations and the proposed construction activity.

Table 2 Project Borings Information and Analysis				
Location of Concern	Approx. Maximum Depth (ft.) of Construction	Depth of Boring	Number of Borings at Location	Recommended Analysis
Former Stop N Go 6408 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
Former Shell Gas Station 6532 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
AFC Enterprises Site (former UST facility) 6830 MLK Blvd.	16	20	3	BTEX+MTBE and TPH
King Food Mart Citgo 7111 MLK Blvd.	16	20	3	BTEX+MTBE and TPH
Former Gulf Gas Station 7446 MLK Blvd.	16	20	3	BTEX+MTBE and TPH
Shell Gas Station 8037 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
Redi Mart Gas Station 8103 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
Former Edgewood Shopping Center and Norma's Plaza Apartments 7502/7506 MLK Blvd.	16	20	6	BTEX+MTBE and TPH

A series of borings location maps annotated with the REC locations are attached (see Plates 2A – 2D). The borings were advanced using direct push (Geoprobe) techniques and were continuously sampled from the surface to the boring total depth bgs. Soil samples were screened for evidence of impacts in the field using an organic vapor meter (OVM). 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 listed in Table 2 above. Groundwater was encountered and sampled at several locations

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 and temporary groundwater monitoring wells were installed by driller Total Support Services, Inc. using Geoprobe sampling equipment. At each location, the unit collected four-foot long soil cores from the ground surface to the top of the water bearing zone or to predetermined boring depths based on depth of construction information provided by the City of Houston. 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 B).

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 contained in the project proposal. 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 A&B Laboratory for analysis.

Groundwater samples were collected from one inch diameter temporary groundwater monitoring wells using clean disposable bailers at the three locations of concern. 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

A&B Laboratory performed one or more of the following analyses on selected soil and groundwater samples from the environmental borings installed along the Subject Project Alignment as follows:

- TPH using TCEQ TX Method 1005;
- BTEX using U.S. EPA Method 8260C; and
- VOCs using U.S. EPA Method 8260C (for borings EB16-EB21 only).

Copies of laboratory reports by A&B Laboratory as well as the standard chain-of-custody documentation are included in Appendix C.

3.3 Waste Management

Investigation derived wastes (primarily soil cuttings) were generated in a small amounts during this investigation. 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 (if any). Since the laboratory analysis report indicated several samples analyzed exceeded the applicable method reporting limit and/or the TCEQ TRRP PCLs, these materials will be transported for disposal under Republic Services Non-Hazardous Waste Manifest by an agent of USA Environment to the state approved Landfill. Copies of the Republic Services Special Waste Profile and manifest documents are provided in Appendix D.

4. ASSESSMENT RESULTS

4.1 Site Specific Soil Conditions

The subsurface soils generally consist of (in general) fill materials, clay, sandy clay and fine sand. Specific soil descriptions and field observations for the soil borings are included on the boring logs contained in Appendix B. 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 and Groundwater

The table below lists the laboratory analytical results for parameters that are at or above the method reporting limit (all other results are at or below the reporting limit and are not listed):

<p style="text-align: center;">Table 3 BORINGS EB1 – EB27 Soil Analytical Results and TCEQ PCLs (results in mg/kg for soil)</p>
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Parameter	BORING NUMBER AND DEPTH OF SAMPLE										TCEQ PCL Soil ¹	
	EB1 (4-7)	EB5 (8-12)	EB9 (12-16)	EB14 (12-16)	EB16 (16-20)	EB21 (12-16)	EB23 (12-16)	EB24 (12-16)	EB26 (8-12)	EB27 (12-16)	TOT COMB	GW ING
VOLATILE ORGANIC COMPOUNDS BY EPA SW-846 8260C and TOTAL PETROLEUM HYDROCARBONS BY TX 1005												
MTBE	BRL	BRL	BRL	0.049	1.43	BRL	BRL	BRL	BRL	BRL	800	0.35
Benzene	BRL	0.326	BRL	BRL	0.806	0.018	BRL	BRL	BRL	BRL	120	0.026
Toluene	BRL	0.271	BRL	BRL	3.29	BRL	BRL	BRL	BRL	BRL	5900	8.2
Ethylbenzene	BRL	0.466	BRL	BRL	0.335	BRL	BRL	BRL	0.145	BRL	6400	7.6
Xylene	BRL	2.698	BRL	BRL	2.24	BRL	BRL	BRL	BRL	BRL	6000	120
1,2,4-Trimethylbenzene	NA	NA	NA	NA	3.96	NA	NA	NA	NA	NA	150	49
1,3,5-Trimethylbenzene	NA	NA	NA	NA	1.19	NA	NA	NA	NA	NA	110	53
Napthalene	NA	NA	NA	NA	1.51	NA	NA	NA	NA	NA	220	31
n-Butylbenzene	NA	NA	NA	NA	0.43	NA	NA	NA	NA	NA	3300	150
n-Propylbenzene	NA	NA	NA	NA	0.502	NA	NA	NA	NA	NA	2200	45
TPH (C6-C12)	BRL	183	BRL	173	333	BRL	29.1	103	63.7	25.3	1600	65
TPH (Total C6-C35)	19	203.6	67.7	242.4	375.2	BRL	54.4	103	63.7	52.6	NL (see Note 1)	NL

Table Notes:

- 1) Levels from TRRP Table 1 Tier 1 Soil Protective Concentration Limits (PCLs) (TotSoil_{Comb} and GWSoil_{Ing} exposure pathway for surface soil) last revised on June 29, 2012. The TPH (C6-C35) PCL is not listed (NL) in this table). Results listed in **RED BOLD** exceed the TCEQ PCL for that parameter.
- 2) BRL = Below Reporting Limit.
- 3) NA = Not analyzed for parameter (VOCs run for boring EB16 – EB21 only).

Table 4 Groundwater Analytical Results and TCEQ PCLs (results in mg/L for water)			
Parameter	BORING NUMBER AND DEPTH OF SAMPLE		TCEQ PCL Groundwater ¹
	EB7	EB14	GW ING
TOTAL PETROLEUM HYDROCARBONS BY TX 1005			
TPH (C6-C12)	0.76	3.63	0.98
TPH (>C12-C28)	BRL	BRL	0.98
TPH (>C28-C35)	1.36	1.31	0.98
TPH (Total C6-C35)	2.12	4.94	0.98

Table Notes:

- 1) Levels from TRRP Table 3 Tier 1 GW Protective Concentration Limits (PCLs) last revised on June 29, 2012. Results listed in **RED BOLD** exceed the TCEQ PCL for that parameter.
- 2) BRL = Below Reporting Limit.

Using the City of Houston criteria, potentially petroleum contaminated areas (PPCAs) were identified along Martin Luther King Blvd. between Stations 100+00 and 106+00 (PPCA 1), 122+00 and 133+00(PPCA 2), 146+50 and 151+00 (PPCA 3), 167+10 and 169+20 (PPCA 4) and 175+00 and 175+78 (PPCA 5). During construction, a decision regarding PPCA soil classification will be made after the analysis of stockpiled soil. Plate 3 shows the location of the five PPCAs. The City of Houston Guide Specifications 02105 (03-18-2005) Chemical Sampling and Analysis and 02120 (03-18-2005) Transportation and Disposal for construction defines a potentially petroleum contaminated area (PPCA) as “an area within station-to-station locations identified on drawings where petroleum contamination has been detected in soil or groundwater.”

5. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

5.1 Summary and Conclusions

The subsurface soils generally consist of (in general) fill, clay, sandy clay and fine sand. We conclude that various petroleum hydrocarbon constituents are present in soil samples collected from borings EB1, EB5, EB9, EB14, EB16, EB21, EB23, EB23, EB26 and EB27 and in groundwater samples collected from temporary monitoring wells installed in borings EB7 and EB14. We anticipate that groundwater will be present at some locations along the Subject Project Alignment at depths ranging from 9 to 20 feet bgs, however, it should be noted that the groundwater table may fluctuate due to seasonal variations in rainfall and local stratigraphic and/or underground (manmade) features and groundwater may not be present at these locations at other times in the year or at nearby locations.

The analysis of samples collected shows that petroleum hydrocarbon levels in all soil samples are below the TRRP Table 1 Tier 1 Residential PCLs for the 0.5 source area $^{Tot}Soil_{Comb}$ exposure pathway for surface soil. The analysis also shows that petroleum hydrocarbon levels in samples from EB5, EB14, EB16 and EB24 are above the TRRP Table 1 Tier 1 Residential PCLs for the 0.5 source area $^{Gw}Soil_{Ing}$ exposure pathway for surface soil. The analysis of samples collected shows that petroleum hydrocarbon levels in two groundwater samples are above the TCEQ PCL for groundwater. The EB16 sample had several VOC constituents present including naphthalene.

These results define five PPCAs along Martin Luther King Blvd. between Stations 100+00 and 106+00 (PPCA 1), 122+00 and 133+00(PPCA 2), 146+50 and 151+00 (PPCA 3), 167+10 and 169+20 (PPCA 4) and 175+00 and 175+78 (PPCA 5). During construction, a decision regarding PPCA soil classification will be made after the analysis of stockpiled soil.

5.2 Recommendations

Based on a comparison of analytical results detailed in this report with TCEQ PCLs and other information, we recommend no further environmental studies adjacent to or near the RECs along the Subject Project Alignment. We recommend no additional worker protection since levels of contamination found are relatively low.

We recommend resistant piping and gaskets and other contaminated design considerations for the PPCA locations. We recommend appropriate contamination design considerations at locations detailed above but no other environmental considerations/protocols for the construction. In the event that environmental contamination is found during construction, we recommend health, safety and other procedures as outlined in the current COH Guide Specifications 02105 and 02120.

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 the COH. 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 the COH, 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 the COH 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 investigations 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 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 site conditions, its interpretation of site history, its interpretation of the site 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 site conditions under no circumstances comprise a warranty that conditions in all areas within the site and study area (and below existing grade) are of the same quality as the area sampled. Recognize, too, that contamination might exist in forms not indicated by the limited exploration HVJ Associates conducted.

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 COH. The rules, regulations and guidelines by which this investigation was conducted were understood to be current or expected at the time HVJ Associates developed its proposal. Any additional information about this site that becomes available should be provided to HVJ Associates for its review, so HVJ Associates can modify its recommendations as necessary.

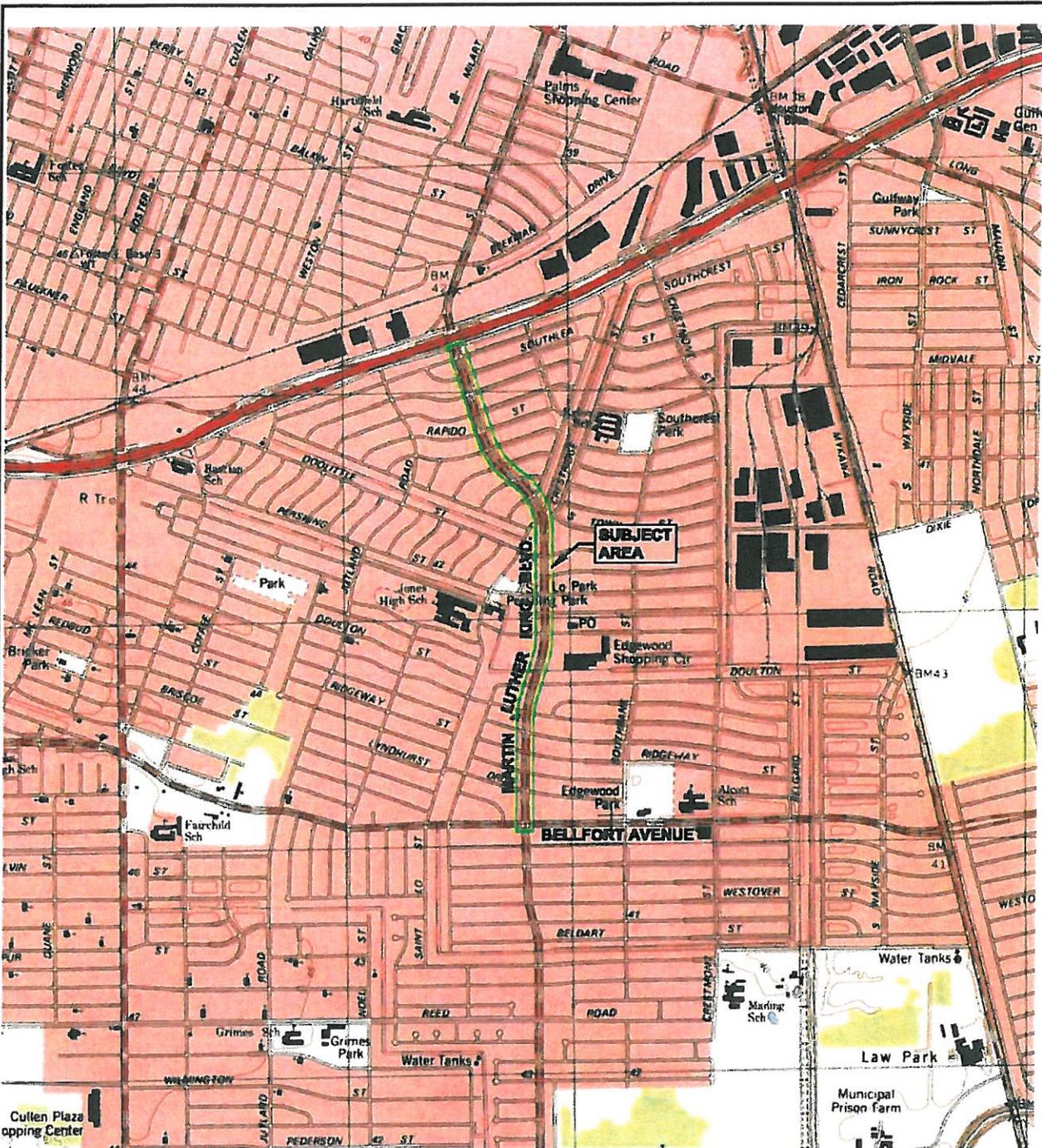
7. REFERENCES

The following references were used to compile this report:

1. Bureau of Economic Geology, 1982. Geologic Atlas of Texas, Houston Sheet, University of Texas at Austin.
2. USDA Soil Conservation Service (Natural Resources Conservation Service), 1976. Soil Survey of Harris County, Texas.
3. ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process."
4. City of Houston, Department of Public Works and Engineering Infrastructure Design Manual Chapter 11 "Geotechnical and Environmental Requirements."
5. ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process." "
6. City of Houston Guide Specifications 02105 and 02120.

7. TCEQ TRRP Residential Soil and Groundwater Protective Concentration Limits (PCLs) Tables (June 29, 2012).
8. United States Geological Survey (USGS) Park Place Quadrangle Topographic Map (1995).
9. G2 Partners, LLC, Phase I Environmental Site Assessment, City of Houston Street Construction of Martin Luther King Blvd., December 2011.

PLATES



REFERENCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
 PARK PLACE, TEXAS (1999)

LATITUDE: 29.6760
 LONGITUDE: -95.3366



QUADRANGLE LOCATION



SCALE IN FEET
 1" = 2000'-0"



Drawn:	EH
Checked:	EH
Date:	August 2013

Plate 1
 Site Vicinity Map
 MLK Reconstruction Project
 IH-610 to Bellfort
 WBS No. N-000801-0001-3
 Houston, Harris County, Texas



Project No.	IHE1018381	Scale	NTS
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LEGEND

● Proposed Boring Location

WBS No. N-000801-0001-3

Project No. IHE1018381

Drawn:	EH
Checked:	EH
Date:	August 2013
Scale:	NTS

Plate 2A
 Borings 1-6 Location Map
 MLK Reconstruction Project
 IH-610 to Bellfort
 WBS No. N-000801-0001-3
 Houston, Harris County, Texas





LEGEND
 ● Proposed Boring Location

0 40' 80'
 SCALE IN FEET

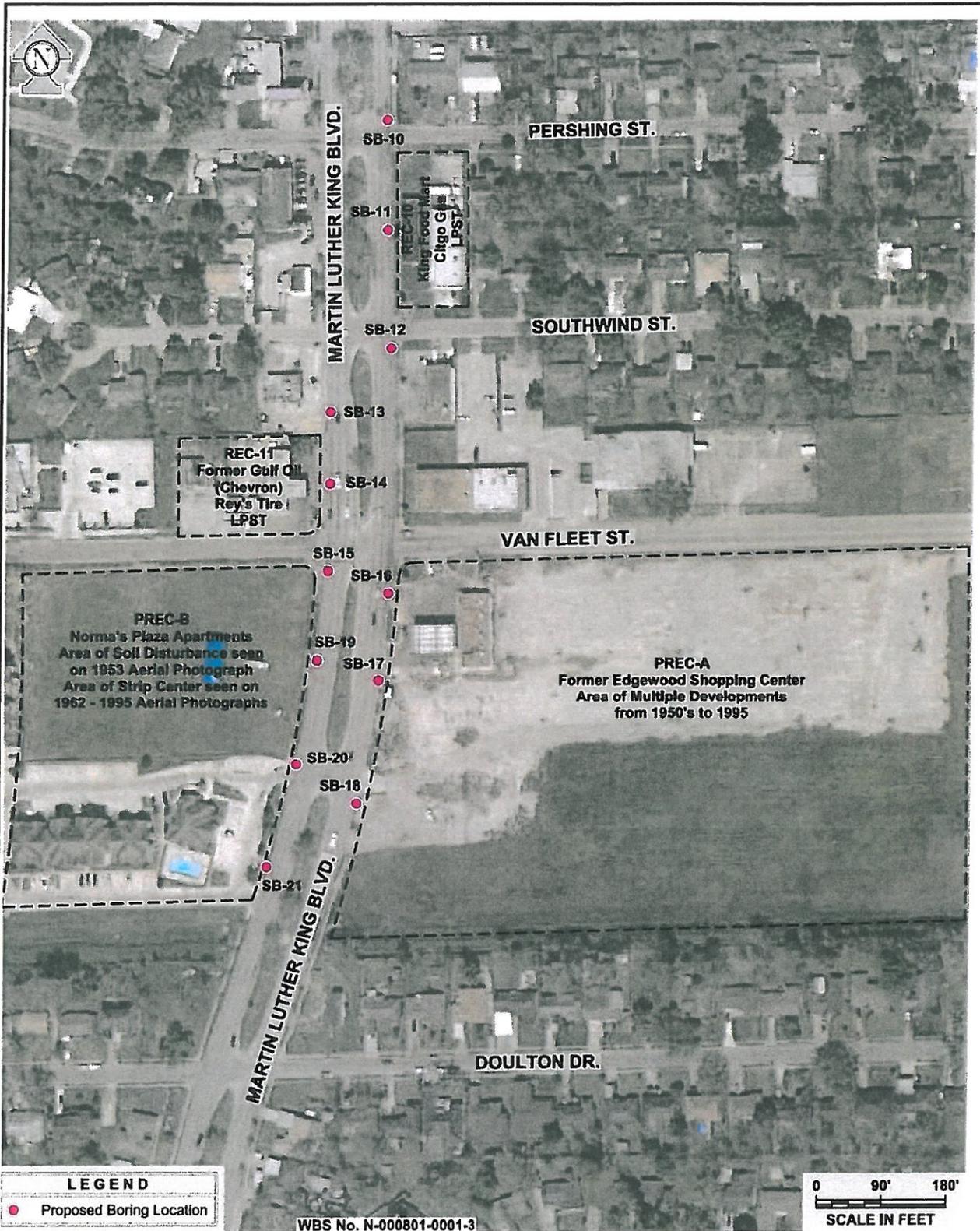


Project No. IIE1018381

Drawn:	EH
Checked:	EH
Date:	August 2013
Scale:	NTS

Plate 2B
 Borings 7-9 Location Map
 MLK Reconstruction Project
 IH-610 to Bellfort
 WBS No. N-000801-0001-3
 Houston, Harris County, Texas





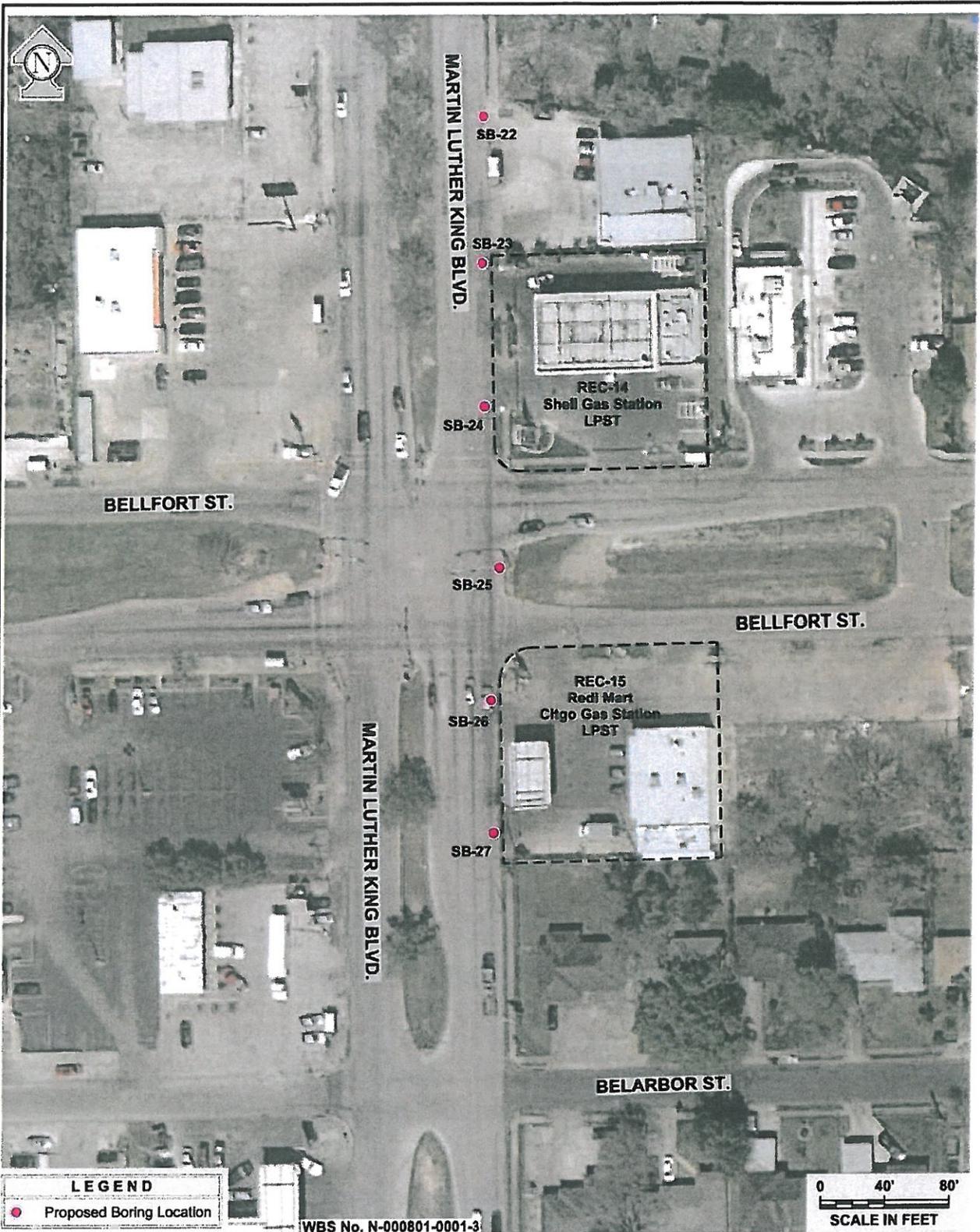
HVJ
ASSOCIATES

Project No. HE1018381

Drawn:	EH
Checked:	EH
Date:	August 2013
Scale:	NTS

Plates 2C
 Borings 10-21 Location Map
 MLK Reconstruction Project
 IH-610 to Bellfort
 WBS No. N-000801-0001-3
 Houston, Harris County, Texas



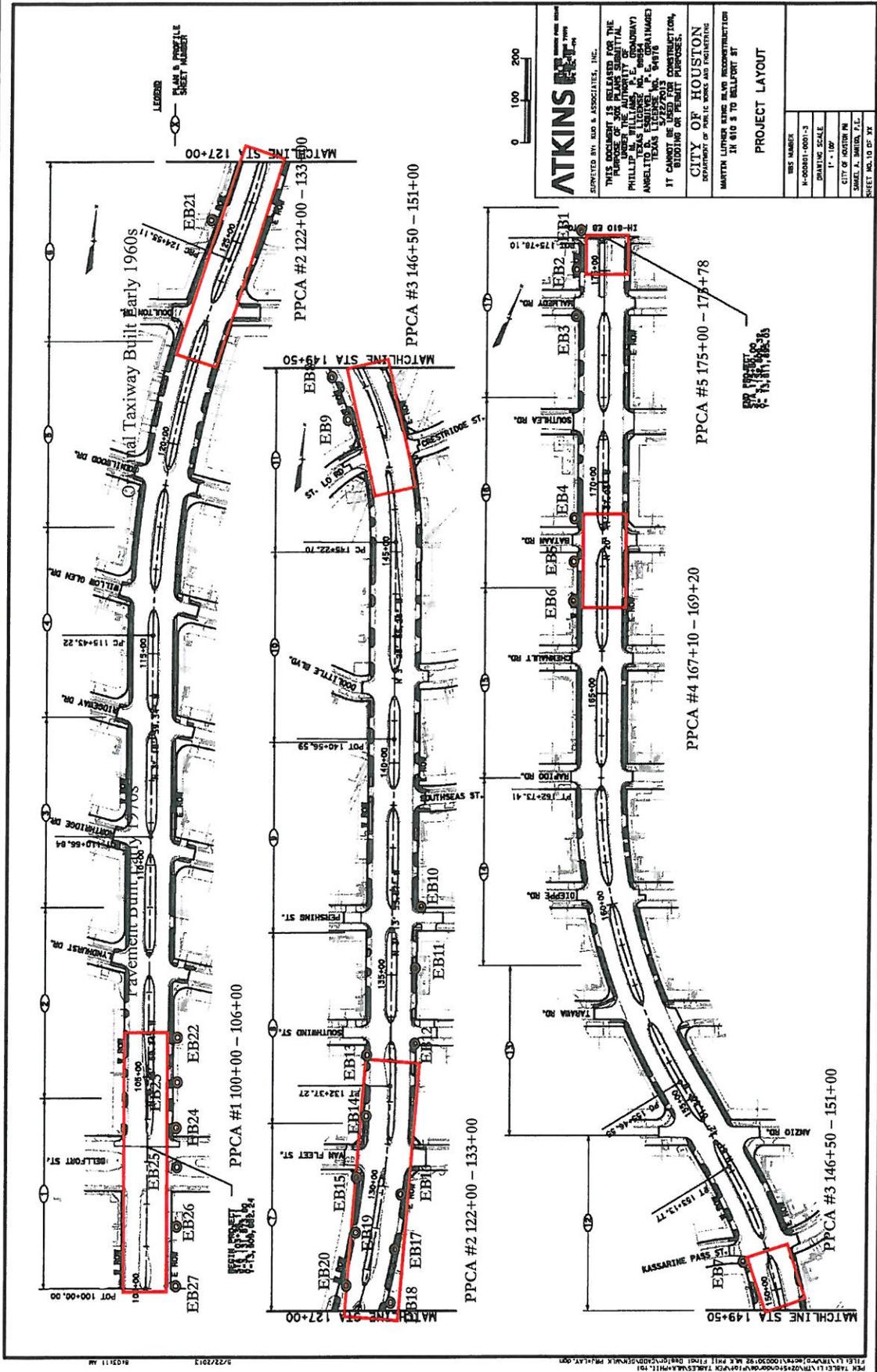


Project No. HI1018381

Drawn:	EH
Checked:	EH
Date:	August 2013
Scale:	NTS

Plate 2D
 Borings 22-27 Location Map
 MLK Reconstruction Project
 IH-610 to Belfort
 WBS No. N-000801-0001-3
 Houston, Harris County, Texas





ATKINS

PREPARED BY: RUD & ASSOCIATES, INC.
 THIS DOCUMENT IS RELEASED FOR THE PUBLIC USE OF THE CITY OF HOUSTON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN PERMISSION OF RUD & ASSOCIATES, INC. (CORPORATED) TEXAS LICENSE NO. 84976
 IT CANNOT BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 MARTIN LUTHER KING BLVD RECONSTRUCTION
 IN 610 E TO BELFORT ST

PROJECT LAYOUT

WBS NUMBER	N-00001-0001-3
DRAWING SCALE	1" = 100'
CITY OF HOUSTON PM	SAMUEL A. SMITH, P.E.
SHEET NO. 10 OF 17	

Plate 3
 PPCA LAYOUT MAP
 MLK Reconstruction Project
 IH-610 to Belfort
 WBS No. N-000801-0001-3
 Houston, Harris County, Texas

Drawn:	EH
Checked:	EH
Date:	August 2013
Scale:	NTS



Report No. IH1018381

APPENDIX A
CITY OF HOUSTON FACILITY PERMITS

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-01

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

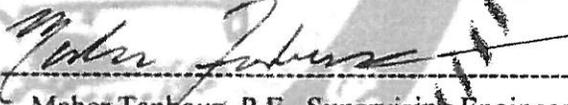
HVJ, Permittee:

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between S Loop E Fwy & Malmedy Rd) (EB-1) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-02

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

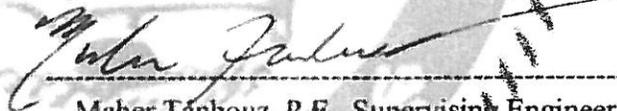
HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MDK Blvd (between S Loop E Fwy & Malmedy Rd) (EB-2) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-03

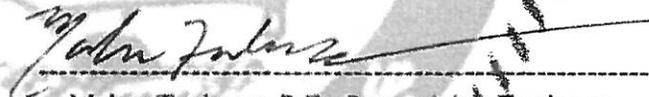
Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MDK Blvd (between S Loop E Fwy & Malmedy Rd) (EB-3) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-04

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Bataan Rd & Chennault Rd) (EB-4) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-05

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

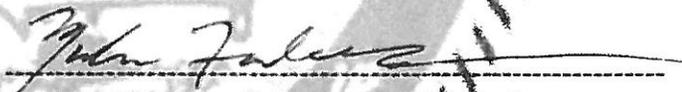
HVJ, Permitted,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Bataan Rd & Chennault Rd) (EB-5) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-06

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Bataan Rd & Chennault Rd) (EB-6) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-07

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MDK Blvd (near MLK Blvd & Kassarine Pass intersection) (EB-7) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-08

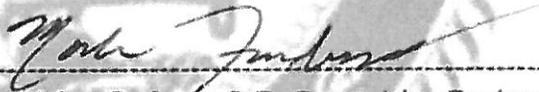
Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (near MLK Blvd & Kassarine Pass intersection) (EB-8) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbotz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-09

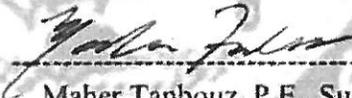
Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (near MLK Blvd & Kassarine Pass intersection) (EB-9) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-10

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Pershing St & Van Fleet St) (EB-10) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Mahe Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-11

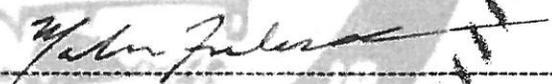
Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MBK Blvd (between Pershing St & Van Fleet St) (EB-11) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-12

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

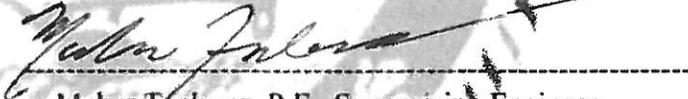
HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Pershing St & Van Fleet St) (EB-12) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-13

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

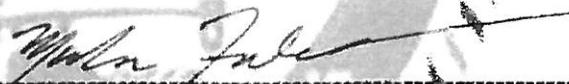
HVJ, Permittee.

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Pershing St & Van Fleet St) (EB-13) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit. Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-14

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MBK Blvd (between Pershing St & Van Fleet St) (EB-14) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-15

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

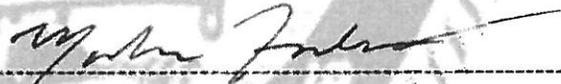
HVJ, Permittee.

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Pershing St & Van Fleet St) (EB-15) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-16

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MEK Blvd (between Van Fleet St & Doulton Dr) (EB-16) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-17

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MBK Blvd (between Van Fleet St & Douulton Dr) (EB-17) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-18

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Van Fleet St & Doulton Dr) (EB-18) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-19

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee.

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MBK Blvd (between Van Fleet St & Doulton Dr) (EB-19) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-20

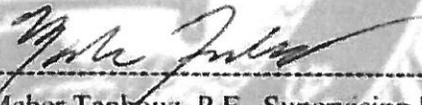
Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVI, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Van Fleet St & Doulton Dr) (EB-20) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-21

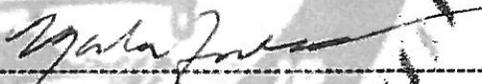
Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (between Van Fleet St & Doulton Dr) (EB-21) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-22

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (near Belfort St intersection) (EB-21) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-23

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MDK Blvd (near Belfort St intersection) (EB-22) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-24

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

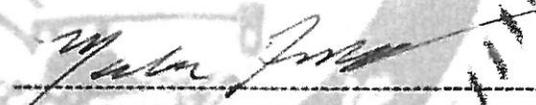
HVJ, Permittee,

For the placement or maintenance of:

Environmental test bore

At the following location:

Along MDK Blvd (near Bellfort St intersection) (EB-23) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-25

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MEK Blvd (near Bellfort St intersection) (EB-24) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-26

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

At the following location:

Along MLK Blvd (near Bellfort St intersection) (EB-25) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.

FACILITY PERMIT
ARTICLE XII, CHAPTER 40,
CITY OF HOUSTON CODE OF ORDINANCE

PERMIT NO: CIP 13-07-27

Pursuant to the terms and provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, having been approved and adopted by the City of Houston, Texas; the application made for this permit having been approved; said Facility Permit is hereby issued to:

HVJ, Permittee,
For the placement or maintenance of:

Environmental test bore

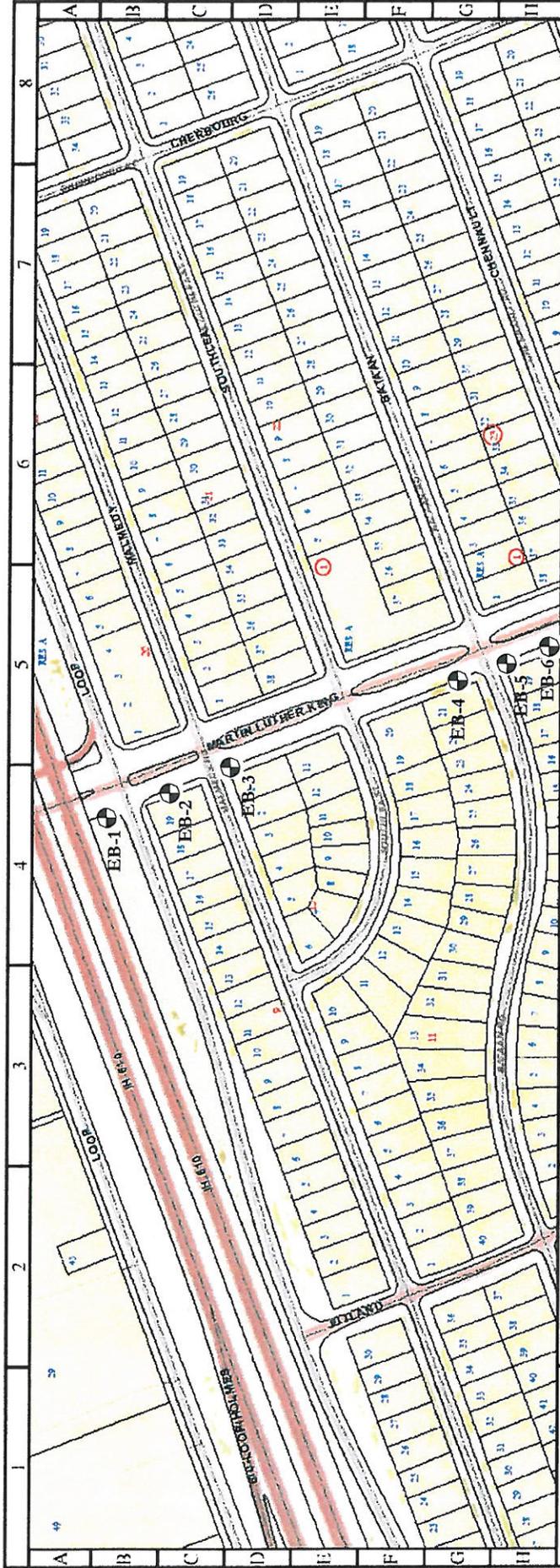
At the following location:

Along MLK Blvd (near Bellfort St intersection) (EB-26) (A Minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained) on the condition that, by acceptance of this permit, Permittee expressly covenants and agrees to comply with each and every term, provision and condition contained in Article XII, Chapter 40, City of Houston Code of Ordinances.



Maher Tanbouz, P.E., Supervising Engineer
Department of Public Works and Engineering

1. The Permittee shall contact a Utility Coordinating Committee at (713) 223-4567 or (800) 245-4545 minimum of (48) hours prior to construction to have utilities field located.
2. The Permittee shall contact the Traffic Management Branch at (832) 395-3020 for lane closure permits.
3. The Permittee shall be fully responsible for any damages to existing water, wastewater, storm sewer lines and traffic signal conduits. All damages shall be repaired in accordance with City of Houston, Dept. of Public Works and Engineering "Standard Construction Specifications" with latest addenda and amendments thereto, at no cost to the City of Houston.
4. The Permittee shall notify the Inspector at glenn.boggan@houstontx.gov a minimum of (48) hour prior to drilling or plugging to arrange for an inspection.



CITY OF HOUSTON
 Department of Public Works and Engineering
 Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
 THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS.
 FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.



1 inch = 209 feet

LEGEND:



APPROXIMATE BORING LOCATIONS

HVJ
 CONSULTANTS

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

DATE: 7/12/2013

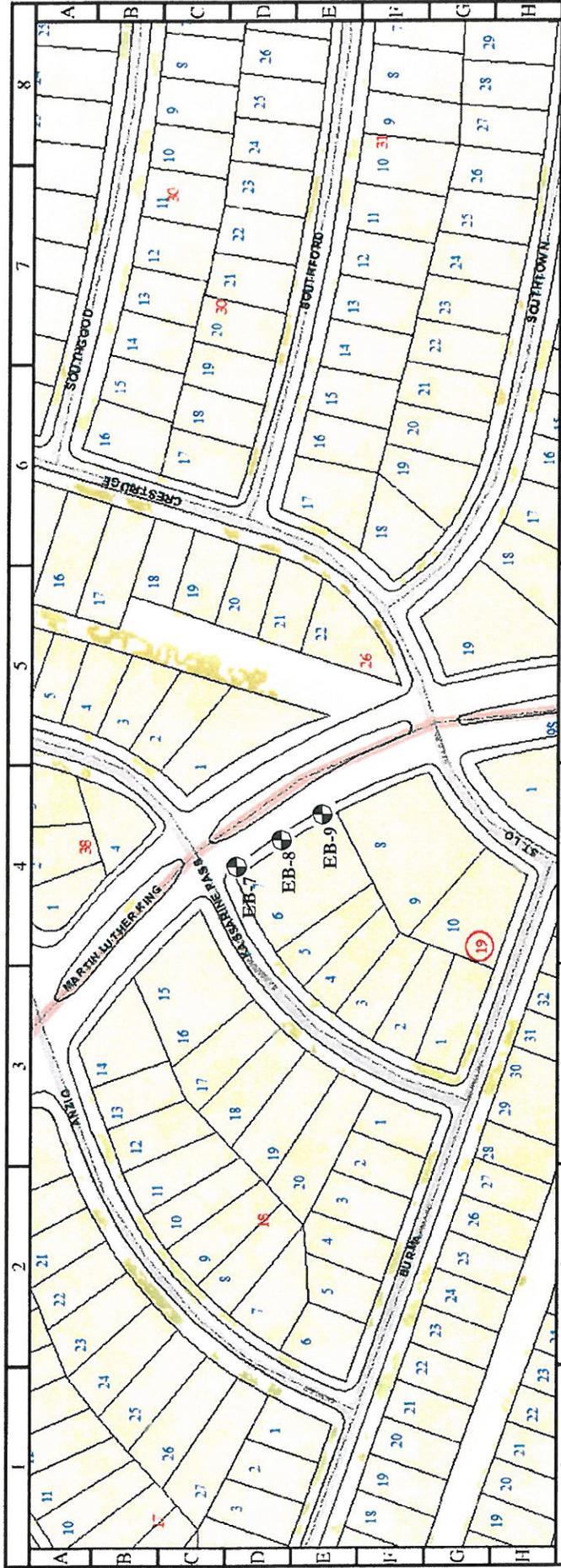
APPROVED BY:
 EH

PREPARED BY:
 NL

PROPOSED PLAN OF BORINGS
 MLK RECONSTRUCTION PROJECT FROM IH 610 TO BELLFORT
 WBS No. N-000801-0001-3

PROJECT NO.: HE1018381

DRAWING NO.: PLATE 2A



CITY OF HOUSTON

Department of Public Works and Engineering
 Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
 THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS.
 FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.



LEGEND:



APPROXIMATE BORING LOCATIONS

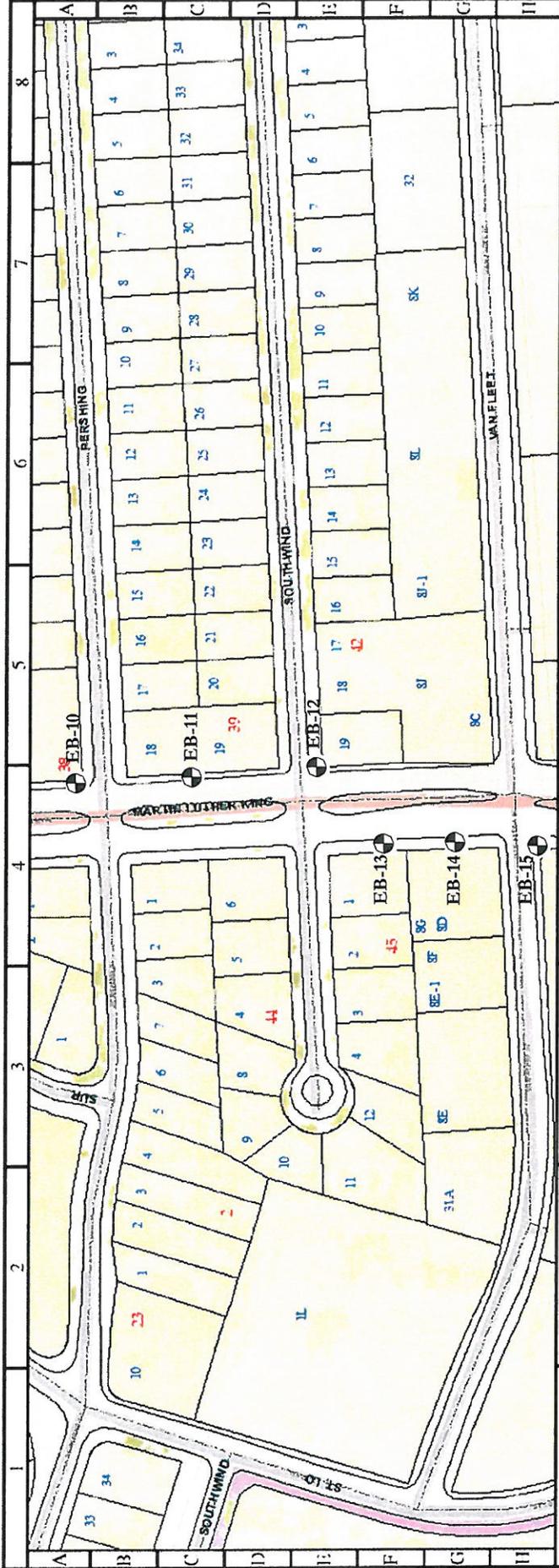
6120 S. Dairy Ashford Road
 Houston, Texas 77072-1010
 281.933.7388 Ph.
 281.933.7293 Fax



DATE: 7/12/2013
 APPROVED BY: EH
 PREPARED BY: NL

PROPOSED PLAN OF BORINGS
 MLK RECONSTRUCTION PROJECT FROM IH 610 TO BELLFORT
 WBS No. N-000801-0001-3

PROJECT NO.: HE1018381
 DRAWING NO.: PLATE 2B



CITY OF HOUSTON
 Department of Public Works and Engineering
 Geographic Information & Management System (GIMS)

DISCLAIMER: THIS APPROPRIATION IS THE BEST INFORMATION AVAILABLE TO THE CITY. THE CITY MAKES NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION. FIELD VERIFICATION SHOULD BE DONE AS NECESSARY.



LEGEND:



APPROXIMATE BORING LOCATIONS

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

DATE: 7/12/2013
 APPROVED BY: EH
 PREPARED BY: NL

PROPOSED PLAN OF BORINGS
 MLK RECONSTRUCTION PROJECT FROM IH 610 TO BELLFORT
 WBS No. N-000801-0001-3

PROJECT NO.: HE1018381
 DRAWING NO.: PLATE 2C



1 inch = 175 feet

CITY OF HOUSTON

Department of Public Works and Engineering
 Geographic Information & Management System (GIMS)



DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
 THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS.
 FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.

LEGEND:



APPROXIMATE BORING LOCATIONS



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

DATE: 7/12/2013

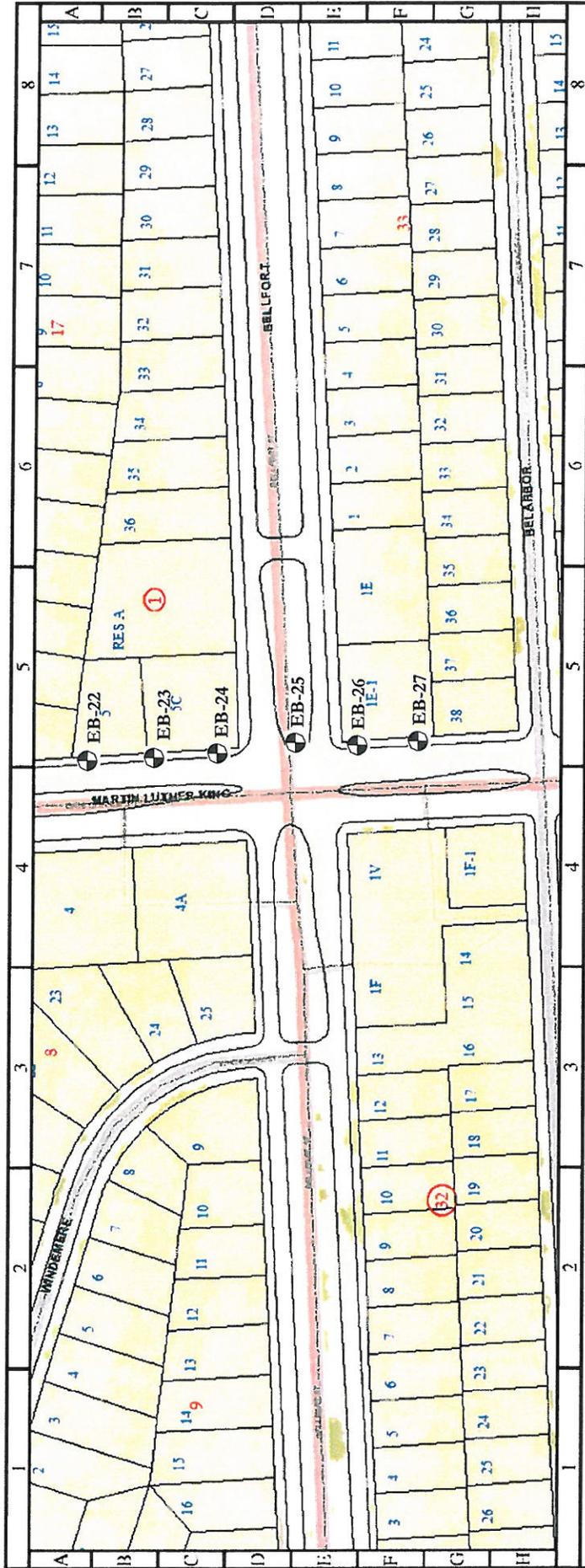
APPROVED BY:
 EH

PREPARED BY:
 NL

PROPOSED PLAN OF BORINGS
 MLK RECONSTRUCTION PROJECT FROM IH 610 TO BELLFORT
 WBS No. N-000801-0001-3

PROJECT NO.: HE1018381

DRAWING NO.: PLATE 2D



CITY OF HOUSTON
 Department of Public Works and Engineering
 Geographic Information & Management System (GIMS)

DISCLAIMER: THIS MAP REPRESENTS THE BEST INFORMATION AVAILABLE TO THE CITY.
 THE CITY DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS.
 FIELD VERIFICATIONS SHOULD BE DONE AS NECESSARY.

1 inch = 142 feet



LEGEND:



APPROXIMATE BORING LOCATIONS



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

DATE: 7/12/2013

APPROVED BY:
 EH

PREPARED BY:
 NL

PROPOSED PLAN OF BORINGS
 MLK RECONSTRUCTION PROJECT FROM IH 610 TO BELLFORT
 WBS No. N-000801-0001-3

PROJECT NO.: HE1018381

DRAWING NO.:

PLATE 2E



Houston 6120 S. Dairy Ashford Rd.
Austin Houston, TX 77072-1010
281.933.7388 Ph
Dallas 281.933.7293 Fax
San Antonio www.hvj.com

July 11, 2013

Tuan Nguyen
COH / PWE/ ECD
Geo-Environmental Services Branch
City of Houston Department of Public Works & Engineering
611 Walker, 14th Floor
Houston, Texas 77002

Re: Phase II Environmental Site Assessment (ESA) Facility Permits Application
MLK Reconstruction Project
Owner: City of Houston
HVJ Project No. HE108381

Dear Mr. Nguyen:

Please find attached an "Application for Monitoring Well/Boring Permit" for environmental borings we propose to install within the City of Houston (COH) right of way in 27 locations along/ adjoining MLK Blvd. from IH-610 to Bellfort in Houston, Texas. The proposed boring locations are annotated on the attached GIMS maps. We will contact Mr. Glen Boggan 48 hours before the scheduled borings and temporary monitoring well installation begins.

We understand that because this is a COH project there will be no permit costs for the permit we are requesting. If you have any questions or require additional information, please contact Edward Hawkinson at 281.804.5766 or Niem Ly at 281.983.8825.

Sincerely,

HVJ ASSOCIATES, INC.

Texas Firm Registration No. F-000646

A handwritten signature in dark ink, appearing to read 'Edward Hawkinson', is written over a faint, illegible printed name.

Edward Hawkinson, PG, MS, MBA
Project Manager

MM/NL/EH:abm



CITY OF HOUSTON, TEXAS
Public Works & Engineering Department



**Application for
Monitoring Well/Boring Permit**

ARTICLE XII, CHAPTER 40, CITY OF HOUSTON CODE OF ORDINANCES
ALL PERMITS SHALL BE EFFECTIVE ONE (1) YEAR FROM DATE OF ISSUANCE

I: APPLICANT INFORMATION

Today's Date : July 11, 2013

Permit Status: Are you obtaining this permit for a City project? Yes No

If yes, what is the CIP/GFS number of this project? WBS No. N-000801-0001-3

Who is the City's Project Manager for this project? Samuel Banigo, PE (832.395.2223)

Is this a renewal application? Yes No

Applicant: Name of Owner/Operator: HVJ Associates, Inc.

Telephone Number: 281.983.8829 Fax: 281.933.7293

Street Address: 6120 S. Dairy Ashford Road

Houston, Texas 77072-1010

E-mail Address (If applicable): ehawkinson@hvj.com

If the applicant is a corporation, partnership, or association, then the applicant shall provide evidence of its existence, of its authority to maintain the facility, and of the authority of the person signing the application to act on behalf of the entity.

Person authorized to file application: Name: Edward F. Hawkinson Title: Project Manager

Phone Number: 281.804.5766

E-mail Address (If applicable): ehawkinson@hvj.com

Type of Business Entity: Corporation
(i.e. corporation, partnership, association, sole proprietorship). Organization documents of business entity should be attached. (certificate of incorporation, assumed name certificate, etc.)

Corporate Registered Agent (If applicable): Name: Herbert V. Johnson Title: President

Address: 6120 S. Dairy Ashford Rd., Houston, TX 77072

Phone Number: 281.933.7388

E-mail Address (If applicable): hjohnson@hvj.com

CITY OF HOUSTON, TEXAS
Public Works & Engineering Department



**Application for
Monitoring Well/Boring Permit**

Emergency Contact Information:

List two(2) persons

Name:	Edward F. Hawkinson	Mobile Telephone:	281.804.5766
Business Address:	6120 S. Dairy Ashford Rd., Houston, TX 77072-1010	Business Telephone:	281.933.7388
Home Address:		Home Telephone:	281.804.5766
Name:	Hossam Esmail	Mobile Telephone:	281.415.7723
Business Address:	6120 S. Dairy Ashford Rd., Houston, TX 77072-1010	Business Telephone:	281.933.7388
Home Address:	22535 Holly Lake Drive, Katy, TX 77450	Home Telephone:	281.395.9762

Agents, Contractors, Engineers:

List every agent, contractor, or engineer that will perform work in the installation, monitoring and removal of the facility. (Additional information may be attached). A copy of the Driller's State license for drilling monitoring well facilities must also be attached.

Name:	Total Support Services, Inc. (tentative - reserve the right to employ an alternate driller)	Telephone:	800.259.7174
Address:	P.O. Box 81621 Austin, TX 78708		
Work Performed:	boring installation using Geoprobe		

Name:		Telephone:	
Address:			
Work Performed:			

II: MONITORING WELL / BORING INFORMATION

Applying for multiple facilities? Yes No

(Identify the type of each facility.)

Number of Facilities:	<u>8 (estimate)</u>	Monitoring Well or other Device(s)
	<u>19</u>	Environmental Test Boring(s)
	<u>27</u>	TOTAL



CITY OF HOUSTON, TEXAS
Public Works & Engineering Department



**Application for
Monitoring Well/Boring Permit**

Detailed Facility
Location Description: SEE ATTACHED LIST AND MAPS

Attach additional
descriptions for multiple
locations if necessary.

KEY MAP
Key 535N, S
Map: & W

Location on GIMS map must be attached

There must be minimum of 10 feet between the facility and any existing sanitary sewer lines and a minimum of 5 feet between the facility and any existing water and storm lines and traffic signal conduits shall be maintained

Attach plan(s,) showing design, dimension and depth of the facility, the manner in which it will be placed, and the process that will be used for its removal and closure. (Information is required for both monitoring wells and borings)

Registered
Engineer/Surveyor: ATKINS
1250 Wood Branch Park Drive, Suite 300
Address: Houston TX 77079

Telephone: 281.493.5100

Plan Number: _____

III. PERMIT INFORMATION

NOTE: ALL PERMIT FEES ARE WAIVED FOR THOSE APPLICANTS APPLYING FOR A PERMIT FOR A CITY PROJECT.

PERMIT TYPE	APPLICATION FEES	CALCULATIONS
ORIGINAL	\$ 200* (1 st facility) + \$25* (each additional facility if applicable) →	\$ _____
RENEWAL	\$25* for each facility →	\$ _____
	\$5* Administrative fee to process <u>all</u> applications →	\$ <u>5.00</u>

TOTAL FEE: \$ 0 (City Project)

Make a Certified or Cashier's Check payable to "City of Houston."

*** ALL FEES ARE NON-REFUNDABLE**

IV. INSURANCE AND BOND INFORMATION

NO PERMIT WILL BE ISSUED WITHOUT AN INSURANCE AND BOND CERTIFICATE

Restoration Bond No.
(Original Bond Attached): N/A Restoration Bond Sum: N/A

Bond Surety Name: _____ Telephone: _____

Address: _____

Contact Person: _____

E-mail Address(If applicable): _____



CITY OF HOUSTON, TEXAS
Public Works & Engineering Department



**Application for
Monitoring Well/Boring Permit**

Liability Insurance
Policy No:

61UUNIT2215 - (EFFECTIVE FROM 12/15/2012 to 12/15/2013)

Bodily injury \$300,000.00 per occurrence, property damage \$100,000.00 per occurrence.

Insurer:

USI Southwest

Contact

Person: Rinny Chadwick Telephone: 713.490.4600

Address: 840 Gessner, Suite 600

Houston, Texas 77024

E-mail Address

(If applicable): [rinny.chadwick@usi.biz]

V. ACKNOWLEDGMENT & AFFIDAVIT:

The undersigned Applicant acknowledges, and agrees to observe all provisions of Article XII, Chapter 40, City of Houston Code of Ordinances, with all subsequent revisions, that are applicable to the work herein described and will perform work in accordance with the above plans and specifications. Applicant further swears under penalty of law that the information provided herein is true and correct to the best of Applicant's knowledge.

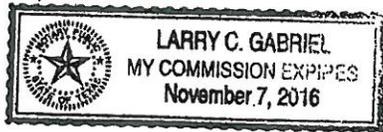
Applicant: HVJ Associates, Inc.

Agent Name: Muhammad Mustafa Title Project Manager

Agent Signature:

SWORN AND SUBSCRIBED before me the undersigned authority by the above named person on this

12 day of July, 2013



Larry C Gabriel
Notary Public in and for the State of Texas

LARRY C GABRIEL
(Print Name)

My Commission Expires: Nov 7 2016

PERMIT APPROVED:
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS & ENGINEERING

Director

THE STATE OF TEXAS



THIS IS TO CERTIFY THAT

THOMAS E. MATHERG

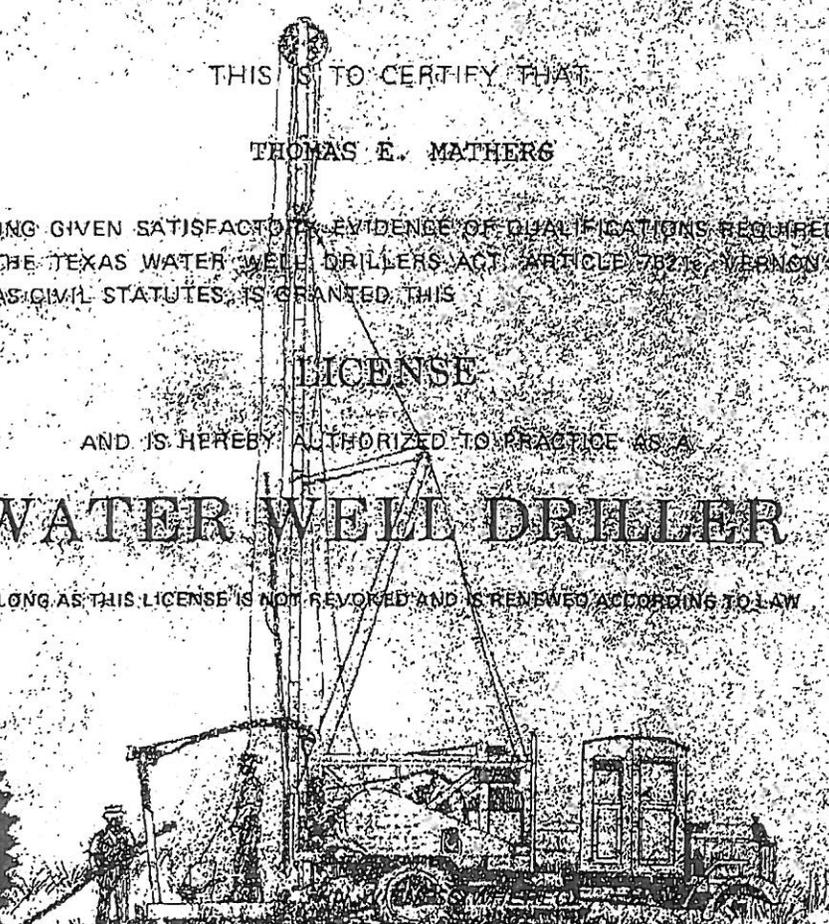
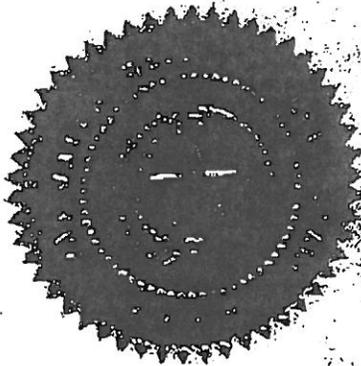
HAVING GIVEN SATISFACTORY EVIDENCE OF QUALIFICATIONS REQUIRED BY THE TEXAS WATER WELL DRILLERS ACT, ARTICLE 7521, VERNON'S TEXAS CIVIL STATUTES, IS GRANTED THIS

LICENSE

AND IS HEREBY AUTHORIZED TO PRACTICE AS A

WATER WELL DRILLER

SO LONG AS THIS LICENSE IS NOT REVOKED AND IS RENEWED ACCORDING TO LAW



THE TEXAS WATER WELL DRILLING BOARD
HAS AFFIXED ITS HAND AND THE SEAL OF
THE BOARD THIS 22ND DAY OF JAN., 1990

LICENSE
NUMBER

3096W

BY

[Handwritten Signature]
Chairman



The State of Texas

Secretary of State

CERTIFICATE OF AMENDMENT

FOR

HVJ ASSOCIATES, INC.
CHARTER NUMBER 00751720

THE UNDERSIGNED, AS SECRETARY OF STATE OF THE STATE OF TEXAS,
HEREBY CERTIFIES THAT THE ATTACHED ARTICLES OF AMENDMENT FOR THE ABOVE
NAMED ENTITY HAVE BEEN RECEIVED IN THIS OFFICE AND ARE FOUND TO
CONFORM TO LAW.

ACCORDINGLY THE UNDERSIGNED, AS SECRETARY OF STATE, AND BY VIRTUE
OF THE AUTHORITY VESTED IN THE SECRETARY BY LAW, HEREBY ISSUES THIS
CERTIFICATE OF AMENDMENT.

DATED JAN. 14, 1999

EFFECTIVE JAN. 14, 1999




Secretary of State

ARTICLES OF AMENDMENT
TO
THE ARTICLES OF INCORPORATION
OF
HVJ ASSOCIATES, INC.

FILED
In the Office of the
Secretary of State of TEXAS
JAN 14 1998
Corporations Section

Pursuant to applicable provisions of the Texas Business Corporation Act and the Bylaws of HVJ Associates, Inc. (the "Corporation"), the Corporation hereby adopts the following Articles of Amendment to the Articles of Incorporation:

ARTICLE I

The name of the Corporation is HVJ Associates, Inc.

ARTICLE II

The Amendment to the Articles of Incorporation of the Corporation changes Article Four of the original Articles of Incorporation, and the full text of such amended Article Four is as follows:

"ARTICLE FOUR

Amount of Capital Stock

The total number of shares into which the authorizing capital stock of the Corporation is divided is one-hundred thousand (100,000) shares, consisting of one-hundred thousand (100,000) shares of no par value.

ARTICLE III

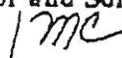
The Amendment to the Articles of Incorporation of the Corporation was adopted by a Unanimous Consent Resolution in lieu of a Special Meeting of Shareholders, said resolution having been adopted on January 4, 1999, by written consent of all shareholders in accordance with Article 9.10 of the Texas Business Corporation Act, and any written notice required by such article has been given.

ARTICLE IV

The number of shares of the Corporation outstanding and entitled to vote at a meeting of shareholders or by resolution are nine-thousand (9,000) shares consisting of no par value. There are no shares of the Corporation entitled to vote by class or series

Dated: January 12, 1999

HVJ Associates, Inc.

By: 
Herbert V. Johnson, Sole
Director and Sole Share-
holder 

STATEMENT REGARDING THE REQUIREMENT TO “Attach plan(s) showing design, dimension and depth of the facility, the manner in which it will be placed, and the process that will be used for its removal and closure.”

Twenty seven borings will be installed to assess nine locations with recognized environmental concerns (RECs). This location of concern, type of concern and other information is shown in the following table:

Project Borings Information and Recommended Analysis				
Location of Concern	Approx. Maximum Depth (ft.) of Construction	Proposed Depth of Boring	Proposed Number of Borings at Location	Analysis
Former Stop N Go 6408 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
Former Shell Gas Station 6532 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
AFC Enterprises Site (former UST facility) 6830 MLK Blvd.	16	20	3	BTEX+MTBE and TPH
King Food Mart Citgo 7111 MLK Blvd.	16	20	3	BTEX+MTBE and TPH
Former Gulf Gas Station 7446 MLK Blvd.	16	20	3	BTEX+MTBE and TPH
Shell Gas Station 8037 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
Redi Mart Gas Station 8103 MLK Blvd.	12	16	3	BTEX+MTBE and TPH
Former Edgewood Shopping Center and Norma's Plaza Apartments 7502/7506 MLK Blvd.	16	20	6	VOC

Borings location maps are attached. The objective of the investigation is to determine the nature of possible environmental contamination associated with the industrial sites and their impact to the design, construction and operation of the proposed facilities. It has been determined that none of the proposed locations may require pavement cores. The borings will be advanced using direct push (Geoprobe) techniques and will be continuously sampled from the surface to the boring total depth below ground surface (bgs). Soil samples will be screened for evidence of impacts in the field using an organic vapor meter (OVM). In accordance with City of Houston guidelines, one soil sample will be collected from each boring and submitted for laboratory analysis. Should groundwater be encountered, a temporary monitoring well will be installed and water sampled for laboratory analysis. No more than one monitoring well will be installed at each REC location. Subsequent to the drilling and sampling activities (the same day or the next day), the temporary monitoring well screen and riser pipe will be removed and each borehole will be plugged from boring total depth to the surface using excess soil cuttings/bentonite slurry and the surface repaired with either topsoil, asphalt patch or concrete as appropriate.

APPENDIX B
BORING LOGS



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB1
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/23/13	Date Completed: 7/23/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 7.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: ∇	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Gray clay		
				0.0				
				0.0				
				0.0			NO HYDROCARBON ODOR	
				0.0				
5						Reddish brown clay		
				0.0				
				0.0				
				0.0		Fine sand at auger refusal	NO HYDROCARBON ODOR	
				0.0				
							BORING TERMINATED AT 6.5 FT. BELOW GROUND SURFACE (BGS) AUGER REFUSAL	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB2
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/23/13	Date Completed: 7/23/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: ∇	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Gray clay with thin fine sand layers		
0.0							NO HYDROCARBON ODOR	
5						Gray to brown clay with ferruginous nodules		
5.0							NO HYDROCARBON ODOR	
10						Reddish brown clay with calcareous nodules		
10.0							NO HYDROCARBON ODOR	
15							NO HYDROCARBON ODOR	
16.0							BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB3
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/23/13	Date Completed: 7/23/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: 	GW Level: 	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Gray clay with thin fine sand layers		
				0.0			NO HYDROCARBON ODOR	
5				0.0		Brown to gray clay with thin sand layers and calcareous nodules		
				0.0			NO HYDROCARBON ODOR	
10				0.0		Reddish brown clay		
				0.0			NO HYDROCARBON ODOR	
15				0.0				
				0.0			NO HYDROCARBON ODOR	
							BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB4
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/23/13	Date Completed: 7/23/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: 	GW Level: 	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		NO RECOVERY - POSSIBLE FILL		
5				0.0		Reddish brown to gray clay	NO HYDROCARBON ODOR	
10				0.0			NO HYDROCARBON ODOR	
15				0.0			NO HYDROCARBON ODOR	
				0.0			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB6
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/23/13	Date Completed: 7/23/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level:	GW Level:	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Gray to light brown clay with thin sand layers and roots	NO HYDROCARBON ODOR	0
5				0.0		Brown to gray clay with ferruginous nodules	NO HYDROCARBON ODOR	5
10				0.0		Reddish brown clay with calcareous nodules and minor gravel	NO HYDROCARBON ODOR	10
15				0.0			NO HYDROCARBON ODOR	15
				0.0			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/9/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB7
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/23/13	Date Completed: 7/23/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: 9.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0								
0.0						Brownish gray sandy clay with organics	NO HYDROCARBON ODOR	
5.0						Brown fine sand	NO HYDROCARBON ODOR	
10.0						Reddish brown clay	NO HYDROCARBON ODOR	
15.0							BORING TERMINATED AT 12 FT. BGS	
20.0								

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB8
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: 	GW Level: 	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Dark reddish brown to gray clay with thin fine sand layers	NO HYDROCARBON ODOR	0
5				0.0			NO HYDROCARBON ODOR	5
10				0.0		Reddusg brown to gray silty clay with calcareous nodules	NO HYDROCARBON ODOR	10
15				0.0		Reddish brown to gray clay	NO HYDROCARBON ODOR	15
20				0.0			NO HYDROCARBON ODOR	20
							BORING TERMINATED AT 20 FT. BGS	

LAEVNL03 MLK FOR ATKINS.GPJ LAEVL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB9
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen:	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack:	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: 7	GW Level: 14.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction		
0				0.0	[Cross-hatched pattern]	Dark gray to reddish brown clay, sand and rock possible fill	0			
				0.0					NO HYDROCARBON ODOR	
				0.0						
				0.0						
5				0.0						
				0.0					NO HYDROCARBON ODOR	
				0.0						
				0.0						
10				0.0						
				0.0					NO HYDROCARBON ODOR	
				0.0						
				0.0						
15				0.0						
				0.0					NO HYDROCARBON ODOR	
				0.0						
20									BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 - MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB10
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen:	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack:	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: 20.0	GW Level: 20.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0	Dark gray clay with ferruginous nodules		NO HYDROCARBON ODOR	
5				0.0	Reddish brown clay		NO HYDROCARBON ODOR	
10				0.0	Reddish brown sandy clay with thin fine sand layers		NO HYDROCARBON ODOR	
15				0.0			NO HYDROCARBON ODOR	
20				0.0			NO HYDROCARBON ODOR	
							BORING TERMINATED AT 20 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB11
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: ∇	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0								
				767		Dark brown to light brown clay with ferruginous nodules and roots		
				767			HYDROCARBON ODOR	
				767				
				767				
5				767				
				767			HYDROCARBON ODOR	
				767				
				767				
				767		Reddish brown clay with ferruginous nodules		
10				0.0				HYDROCARBON ODOR
				0.0				
				0.0				
				0.0				
				199.9				
				199.9			HYDROCARBON ODOR	
15				199.9				
				199.9				
				767				
				767			HYDROCARBON ODOR	
				767				
20				767				
							BORING TERMINATED AT 20 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB12
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen:	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack:	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: 20.0	GW Level: 16.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Dark brown to gray sandy clay	NO HYDROCARBON ODOR	
5				0.0		Reddish brown to gray clay with minor gravel	NO HYDROCARBON ODOR	
10				0.0		Reddish brown clay with calcareous nodules	NO HYDROCARBON ODOR	
15				0.0		Reddish brown to gray sandy clay with thin sand layers	NO HYDROCARBON ODOR	
20				0.0			BORING TERMINATED AT 20 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB13
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: 15.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Dark gray to reddish brown clay, sand and rocks fill	0	
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
5				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
				0.0				
10				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
				0.0				
				0.0				
				0.0				
15				0.0			NO HYDROCARBON ODOR	
				0.0				
20						BORING TERMINATED AT 16 FT. BGS		

LAEVNL03 MLK FOR ATKINS.GPJ LAEVL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB15
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen:	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack:	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: ∇	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Reddish brown clay		
0.0							NO HYDROCARBON ODOR	
5						Reddish brown clay with calcareous nodules		
0.0							NO HYDROCARBON ODOR	
10						Reddish brown sandy clay		
0.0							NO HYDROCARBON ODOR	
15							NO HYDROCARBON ODOR	
20							NO HYDROCARBON ODOR	
							BORING TERMINATED AT 20 FT. BGS	

LAEVNL03 MLK FOR ATKINS.GPJ LAEVL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB16
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen:	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack:	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: 15.0	GW Level: 15.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Brownish gray sandy clay with ferruginous nodules	NO HYDROCARBON ODOR	
5				0.0		Reddish brown clay with calcareous nodules and thin fine sand layers	NO HYDROCARBON ODOR	
10				0.0		Reddish brown clay with calcareous nodules	NO HYDROCARBON ODOR	
15				0.0		Gray to brown sandy clay	NO HYDROCARBON ODOR	
				767			HYDROCARBON ODOR - GAS	
20				767			BORING TERMINATED AT 20 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB17
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: <input 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				0.0		Dark brown clay		0
				0.0			NO HYDROCARBON ODOR	
5				0.0		Brown clay with ferruginous nodules		5
				0.0			NO HYDROCARBON ODOR	
10				0.0		Reddish brown to gray clay		10
				0.0			NO HYDROCARBON ODOR	
15				0.0				15
				0.0			NO HYDROCARBON ODOR	
20				0.0				20
				0.0			NO HYDROCARBON ODOR	
							BORING TERMINATED AT 20 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB18
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: <input 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				0.0		NO RECOVERY		
5				0.0		Gray clay	NO HYDROCARBON ODOR	
				0.0		Reddish brown sandy clay	NO HYDROCARBON ODOR	
10				0.0			NO HYDROCARBON ODOR	
				0.0		Reddish brown clay with carcareous nodules	NO HYDROCARBON ODOR	
15				0.0			NO HYDROCARBON ODOR	
20				0.0			NO HYDROCARBON ODOR	
							BORING TERMINATED AT 20 FT. BGS	

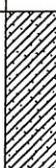
LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB19
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: ∇	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Dark gray sandy clay	NO HYDROCARBON ODOR	0
5				0.0		Dark gray to brown clay with thine fine sand layers	NO HYDROCARBON ODOR	5
10				0.0		Reddish brown to gray clay with calcareous nodules	NO HYDROCARBON ODOR	10
15				0.0		Reddish brown to gray clay with thin fine sand layers	NO HYDROCARBON ODOR	15
20				0.0			NO HYDROCARBON ODOR	20
							BORING TERMINATED AT 20 FT. BGS	

LAENL03 MLK FOR ATKINS.GPJ LAENL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB20
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: ∇	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Brown sandy clay with roots	NO HYDROCARBON ODOR	
5				0.0		Reddish brown to gray clay with ferruginous nodules	NO HYDROCARBON ODOR	
10				0.0		Reddish brown sandy clay	NO HYDROCARBON ODOR	
15				0.0			NO HYDROCARBON ODOR	
20				0.0			BORING TERMINATED AT 20 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB21
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/24/13	Date Completed: 7/24/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 20.0	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				0.0		Dark gray to brown clay with thin fine sand layers and nodules	0	
				0.0			NO HYDROCARBON ODOR	
5				0.0			5	
				0.0			NO HYDROCARBON ODOR	
10				0.0			10	
				0.0			NO HYDROCARBON ODOR	
15				0.0		Reddish brown sandy clay	15	
				0.0			NO HYDROCARBON ODOR	
20				0.0			20	
				0.0			BORING TERMINATED AT 20 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB23
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: 14.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Brownish gray sandy clay with concrete debris		
				0.0			NO HYDROCARBON ODOR	
				0.0				
5				0.0		Reddish brown sandy clay		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
10				0.0		Reddish brown sandy clay with thin fine sand layers		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				767				
				767				
15				767				
				767			HYDROCARBON ODOR ∇	
				767				
				767				
				767				
							BORING TERMINATED AT 16 FT. BGS	

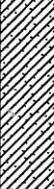
LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB24
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: 14.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Dark gray to brown sand with rocks		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
5				0.0		Reddish brown to gray sandy clay		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
10				0.0		Reddish brown to gray sandy clay with fine sand layers		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
				767				
				767			∇ HYDROCARBON ODOR	
15				767				
				767				
				767				
				767				
							BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB25
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: <input checked="" type="checkbox"/>	GW Level: 16.0	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0		Brown sandy clay with roots	NO HYDROCARBON ODOR	
5				0.0		Brownish gray sandy clay with thin sand layers and rocks	NO HYDROCARBON ODOR	
10				0.0		Reddish brown to gray sandy clay	NO HYDROCARBON ODOR	
15				0.0		Reddish brown fine sand	NO HYDROCARBON ODOR	
16				0.0			BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB26
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen: 	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack: 	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal: 	From: - To:
Method: Geoprobe	Equipment:	Grout: 	From: - To:
Boring Depth: 12.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level: ∇	GW Level: ∇	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0						Gray clay		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
				0.0				
5				0.0		Gray to brown clay with ferruginous nodules		
				0.0			NO HYDROCARBON ODOR	
				0.0				
				0.0				
				0.0				
				0.0		Reddish brown to gray sandy clay		
10				767			HYDROCARBON ODOR	
				767				
				767				
				767				
				767			AUGUER REFUSAL AT 11.5 FT BGS	

LAEWNI03 MLK FOR ATKINS.GPJ LAEWNI03.GDT 9/3/13



HVJ Associates Inc.

Telephone:
Fax:

Client: City of Houston		Job No.: HE1018381	Boring/Well: EB27
Project: MLK for ATKINS		Well Construction Data	
Date Started: 7/25/13	Date Completed: 7/25/13	Screen:	From: - To:
Logged By: EDGAR	Checked By: EFH	Pack:	From: - To:
Drilling Co.: Total Support Services	Driller: Chester	Seal:	From: - To:
Method: Geoprobe	Equipment:	Grout:	From: - To:
Boring Depth: 16.0	Ground Surface Elevation:	Inner Casing:	
Initial GW Level:	GW Level:	Time/Date:	Outer Casing/Stick Up:

Depth	Sample	Sample Number	Blow Count Rec./RQD	PID (ppm)	Lithology	Description	Remarks	Well Construction
0				0.0	Dark gray clay		NO HYDROCARBON ODOR	
5				0.0	Gray to brown clay with calcareous nodules		NO HYDROCARBON ODOR	
10				0.0	Reddish brown to brown sandy clay with thin clay layers			
15				767	Brown sand with sandy clay layers		NO HYDROCARBON ODOR	
				767			HYDROCARBON ODOR	
				767				
				767				
				767				
							BORING TERMINATED AT 16 FT. BGS	

LAEWNL03 MLK FOR ATKINS.GPJ LAEWNL03.GDT 9/3/13

APPENDIX C

ANALYTICAL LAB REPORT/CHAIN OF CUSTODY DOCUMENTATION

CORRECTED
Laboratory Analysis Report

Total Number of Pages: 45

Job ID : 13071197



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

Client Project Name :
HE-1018381 / Martin Luther King

Report To : Client Name: HVJ Associates
Attn: Muhammad Mustafa
Client Address: 6120 S. Dairy Ashford
City, State, Zip: Houston, Texas, 77072

P.O.#.:
Sample Collected By: Edgardo Eusebio
Date Collected: 07/23/13 - 07/25/13

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

Client Sample ID	Matrix	A&B Sample ID
EB-1	Soil	13071197.01
EB-2	Soil	13071197.02
EB-3	Soil	13071197.03
EB-4	Soil	13071197.04
EB-5	Soil	13071197.05
EB-6	Soil	13071197.06
EB-7	Soil	13071197.07
EB-7	Water	13071197.08
EB-8	Soil	13071197.09
EB-9	Soil	13071197.10
EB-10	Soil	13071197.11
EB-10	Water	13071197.12
EB-11	Soil	13071197.13
EB-12	Soil	13071197.14
EB-13	Soil	13071197.15
EB-14	Soil	13071197.16
EB-14	Water	13071197.17
EB-15	Soil	13071197.18
EB-16	Soil	13071197.19

Alisha Hughes

Released By: Alisha Hughes

Title: PM

Date: 8/21/2013



This Laboratory is NELAP (T104704213-13-8) accredited. Effective: 04/01/2013; Expires: 03/31/2014

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 07/25/2013 14:40

CORRECTED

Laboratory Analysis Report

Total Number of Pages: 45

Job ID : 13071197



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

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

Client Sample ID	Matrix	A&B Sample ID
EB-17	Soil	13071197.20
EB-18	Soil	13071197.21
EB-19	Soil	13071197.22
EB-20	Soil	13071197.23
EB-21	Soil	13071197.24
EB-22	Soil	13071197.25
EB-22	Water	13071197.26
EB-23	Soil	13071197.27
EB-24	Soil	13071197.28
EB-25	Soil	13071197.29
EB-26	Soil	13071197.30
EB-27	Soil	13071197.31

Alisha Hughes

Released By: Alisha Hughes

Title: PM

Date: 8/21/2013



This Laboratory is NELAP (T104704213-13-8) accredited. Effective: 04/01/2013; Expires: 03/31/2014

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 07/25/2013 14:40

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 13071197

Date: 8/21/2013

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

D1	Sample required dilution due to matrix effects.
J	Estimation. Below calibration range but above MDL.
M2	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference.
M8	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits.
Q18	Soils not collected in a hermetically sealed container may lose low-level VOCs.
R4	LCS/LCSD RPD exceeds control limit. Recovery meets acceptance criteria.
S2	Surrogate recovery is below control limit. Results may be biased low.
S6	Surrogate recovery is outside control limits due to matrix effects.
S8	Target compounds caused elevation of baseline. Surrogate may be biased high.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-1 Job Sample ID: 13071197.01
 Date Collected: 07/23/13 Sample Matrix: Soil
 Time Collected: 09:47
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 18:20	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 18:20	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 18:20	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 18:20	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 18:20	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 18:20	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 18:20	XA
	Trifluorotoluene(surr)	103	%	1	81-111			07/26/13 18:20	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 12:42	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 12:42	JYS
	>C28-C35 ¹	19	mg/Kg	1	17.7		J	07/26/13 12:42	JYS
	Total C6-C35	19	mg/Kg	1				07/26/13 12:42	JYS
	1-Chlorooctane(surr)	84.5	%	1	60-143			07/26/13 12:42	JYS
	Chlorooctadecane(surr)	91.6	%	1	60-150			07/26/13 12:42	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-2 Job Sample ID: 13071197.02
 Date Collected: 07/23/13 Sample Matrix: Soil
 Time Collected: 09:25
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 18:46	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 18:46	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 18:46	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 18:46	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 18:46	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 18:46	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 18:46	XA
	Trifluorotoluene(surr)	101	%	1	81-111			07/26/13 18:46	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 13:09	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 13:09	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 13:09	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 13:09	JYS
	1-Chlorooctane(surr)	81.7	%	1	60-143			07/26/13 13:09	JYS
	Chlorooctadecane(surr)	88.2	%	1	60-150			07/26/13 13:09	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-3 Job Sample ID: 13071197.03
 Date Collected: 07/23/13 Sample Matrix: Soil
 Time Collected: 10:23
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 19:12	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 19:12	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 19:12	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 19:12	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 19:12	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 19:12	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 19:12	XA
	Trifluorotoluene(surr)	102	%	1	81-111			07/26/13 19:12	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 13:36	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 13:36	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 13:36	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 13:36	JYS
	1-Chlorooctane(surr)	77.7	%	1	60-143			07/26/13 13:36	JYS
	Chlorooctadecane(surr)	87.6	%	1	60-150			07/26/13 13:36	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-4 Job Sample ID: 13071197.04
 Date Collected: 07/23/13 Sample Matrix: Soil
 Time Collected: 11:15
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 19:38	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 19:38	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 19:38	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 19:38	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 19:38	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 19:38	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 19:38	XA
	Trifluorotoluene(surr)	103	%	1	81-111			07/26/13 19:38	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 14:04	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 14:04	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 14:04	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 14:04	JYS
	1-Chlorooctane(surr)	79.7	%	1	60-143			07/26/13 14:04	JYS
	Chlorooctadecane(surr)	88.3	%	1	60-150			07/26/13 14:04	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-5 Job Sample ID: 13071197.05
 Date Collected: 07/23/13 Sample Matrix: Soil
 Time Collected: 11:54
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	9.98	0.0499			07/27/13 13:27	XA
	Benzene	0.326	mg/Kg	9.98	0.0499		Q18	07/27/13 13:27	XA
	Toluene	0.271	mg/Kg	9.98	0.0499			07/27/13 13:27	XA
	Ethylbenzene	0.466	mg/Kg	9.98	0.0499			07/27/13 13:27	XA
	m- & p-Xylenes	1.98	mg/Kg	9.98	0.0998			07/27/13 13:27	XA
	o-Xylene	0.718	mg/Kg	9.98	0.0499			07/27/13 13:27	XA
	Xylenes	2.698	mg/Kg	9.98	0.0499			07/27/13 13:27	XA
	Trifluorotoluene(surr)	100	%	9.98	81-111			07/27/13 13:27	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	183	mg/Kg	1	23.7		Q18	07/26/13 14:31	JYS
	>C12-C28 ¹	20.6	mg/Kg	1	20.3		J	07/26/13 14:31	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 14:31	JYS
	Total C6-C35	203.6	mg/Kg	1				07/26/13 14:31	JYS
	1-Chlorooctane(surr)	117	%	1	60-143			07/26/13 14:31	JYS
	Chlorooctadecane(surr)	93.2	%	1	60-150			07/26/13 14:31	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-6 Job Sample ID: 13071197.06
 Date Collected: 07/23/13 Sample Matrix: Soil
 Time Collected: 12:24
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 20:04	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 20:04	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 20:04	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 20:04	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 20:04	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 20:04	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 20:04	XA
	Trifluorotoluene(surr)	104	%	1	81-111			07/26/13 20:04	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 14:58	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 14:58	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 14:58	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 14:58	JYS
	1-Chlorooctane(surr)	86.9	%	1	60-143			07/26/13 14:58	JYS
	Chlorooctadecane(surr)	89.2	%	1	60-150			07/26/13 14:58	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-7 Job Sample ID: 13071197.07
 Date Collected: 07/23/13 Sample Matrix: Soil
 Time Collected: 13:29
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 20:30	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 20:30	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 20:30	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 20:30	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 20:30	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 20:30	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 20:30	XA
	Trifluorotoluene(surr)	103	%	1	81-111			07/26/13 20:30	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 15:53	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 15:53	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 15:53	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 15:53	JYS
	1-Chlorooctane(surr)	98	%	1	60-143			07/26/13 15:53	JYS
	Chlorooctadecane(surr)	93.1	%	1	60-150			07/26/13 15:53	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-7 Job Sample ID: 13071197.08
 Date Collected: 07/23/13 Sample Matrix: Water
 Time Collected: 13:43
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			07/28/13 13:16	XA
	Benzene	BRL	mg/L	1	0.002			07/28/13 13:16	XA
	Toluene	BRL	mg/L	1	0.002			07/28/13 13:16	XA
	Ethylbenzene	BRL	mg/L	1	0.002			07/28/13 13:16	XA
	m- & p-Xylenes	BRL	mg/L	1	0.004			07/28/13 13:16	XA
	o-Xylene	BRL	mg/L	1	0.002			07/28/13 13:16	XA
	Xylenes	BRL	mg/L	1	0.002			07/28/13 13:16	XA
	Trifluorotoluene(surr)	95	%	1	75-125			07/28/13 13:16	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	0.76	mg/L	0.63	0.63		J	07/27/13 08:59	JYS
	>C12-C28 ¹	BRL	mg/L	0.63	1.5624			07/27/13 08:59	JYS
	>C28-C35 ¹	1.36	mg/L	0.63	1.1844			07/27/13 08:59	JYS
	Total C6-C35	2.12	mg/L	0.63				07/27/13 08:59	JYS
	Chlorooctadecane(surr)	105	%	0.63	70-125			07/27/13 08:59	JYS
	1-Chlorooctane(surr)	82.4	%	0.63	70-125			07/27/13 08:59	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-8 Job Sample ID: 13071197.09
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 08:10
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 20:56	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 20:56	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 20:56	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 20:56	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 20:56	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 20:56	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 20:56	XA
	Trifluorotoluene(surr)	102	%	1	81-111			07/26/13 20:56	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 16:20	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 16:20	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 16:20	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 16:20	JYS
	1-Chlorooctane(surr)	95.1	%	1	60-143			07/26/13 16:20	JYS
	Chlorooctadecane(surr)	88.3	%	1	60-150			07/26/13 16:20	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-9 Job Sample ID: 13071197.10
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 08:54
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 21:22	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 21:22	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 21:22	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 21:22	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 21:22	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 21:22	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 21:22	XA
	Trifluorotoluene(surr)	103	%	1	81-111			07/26/13 21:22	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 16:48	JYS
	>C12-C28 ¹	26.70	mg/Kg	1	20.3			07/26/13 16:48	JYS
	>C28-C35 ¹	41.01	mg/Kg	1	17.7			07/26/13 16:48	JYS
	Total C6-C35	67.71	mg/Kg	1				07/26/13 16:48	JYS
	1-Chlorooctane(surr)	99.3	%	1	60-143			07/26/13 16:48	JYS
	Chlorooctadecane(surr)	106	%	1	60-150			07/26/13 16:48	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-10 Job Sample ID: 13071197.11
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 09:56
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 22:15	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 22:15	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 22:15	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 22:15	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 22:15	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 22:15	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 22:15	XA
	Trifluorotoluene(surr)	103	%	1	81-111			07/26/13 22:15	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 17:42	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 17:42	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 17:42	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 17:42	JYS
	1-Chlorooctane(surr)	115	%	1	60-143			07/26/13 17:42	JYS
	Chlorooctadecane(surr)	109	%	1	60-150			07/26/13 17:42	JYS

**LABORATORY TEST RESULTS**

Date 8/21/2013

Job ID : 13071197

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-10 Job Sample ID: 13071197.12
Date Collected: 07/25/13 Sample Matrix: Water
Time Collected: 10:13
Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			07/28/13 13:42	XA
	Benzene	BRL	mg/L	1	0.002			07/28/13 13:42	XA
	Toluene	BRL	mg/L	1	0.002			07/28/13 13:42	XA
	Ethylbenzene	BRL	mg/L	1	0.002			07/28/13 13:42	XA
	m- & p-Xylenes	BRL	mg/L	1	0.004			07/28/13 13:42	XA
	o-Xylene	BRL	mg/L	1	0.002			07/28/13 13:42	XA
	Xylenes	BRL	mg/L	1	0.002			07/28/13 13:42	XA
	Trifluorotoluene(surr)	93.8	%	1	75-125			07/28/13 13:42	XA



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-11 Job Sample ID: 13071197.13
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 09:20
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 22:41	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 22:41	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 22:41	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 22:41	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 22:41	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 22:41	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 22:41	XA
	Trifluorotoluene(surr)	96.5	%	1	81-111			07/26/13 22:41	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 18:37	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 18:37	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 18:37	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 18:37	JYS
	1-Chlorooctane(surr)	116	%	1	60-143			07/26/13 18:37	JYS
	Chlorooctadecane(surr)	99.8	%	1	60-150			07/26/13 18:37	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-12 Job Sample ID: 13071197.14
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 08:24
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 23:07	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 23:07	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 23:07	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 23:07	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 23:07	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 23:07	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 23:07	XA
	Trifluorotoluene(surr)	102	%	1	81-111			07/26/13 23:07	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 19:05	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 19:05	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 19:05	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 19:05	JYS
	1-Chlorooctane(surr)	116	%	1	60-143			07/26/13 19:05	JYS
	Chlorooctadecane(surr)	108	%	1	60-150			07/26/13 19:05	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-13 Job Sample ID: 13071197.15
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 09:48
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/26/13 23:33	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/26/13 23:33	XA
	Toluene	BRL	mg/Kg	1	0.005			07/26/13 23:33	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/26/13 23:33	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/26/13 23:33	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/26/13 23:33	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/26/13 23:33	XA
	Trifluorotoluene(surr)	106	%	1	81-111			07/26/13 23:33	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 19:32	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 19:32	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 19:32	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 19:32	JYS
	1-Chlorooctane(surr)	111	%	1	60-143			07/26/13 19:32	JYS
	Chlorooctadecane(surr)	107	%	1	60-150			07/26/13 19:32	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-14 Job Sample ID: 13071197.16
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 10:33
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Rows include SW-846 8021B (Purgeable Aromatics) and TX 1005 (Total Petroleum Hydrocarbons).



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-14 Job Sample ID: 13071197.17
 Date Collected: 07/24/13 Sample Matrix: Water
 Time Collected: 10:43
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	50	0.1		D1	07/28/13 14:10	XA
	Benzene	BRL	mg/L	50	0.1		D1	07/28/13 14:10	XA
	Toluene	BRL	mg/L	50	0.1		D1	07/28/13 14:10	XA
	Ethylbenzene	BRL	mg/L	50	0.1		D1	07/28/13 14:10	XA
	m- & p-Xylenes	BRL	mg/L	50	0.2		D1	07/28/13 14:10	XA
	o-Xylene	BRL	mg/L	50	0.1		D1	07/28/13 14:10	XA
	Xylenes	BRL	mg/L	50	0.1		D1	07/28/13 14:10	XA
	Trifluorotoluene(surr)	95	%	50	75-125			07/28/13 14:10	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	3.63	mg/L	0.624	0.624			07/27/13 05:18	JYS
	>C12-C28 ¹	BRL	mg/L	0.624	1.54752			07/27/13 05:18	JYS
	>C28-C35 ¹	1.31	mg/L	0.624	1.17312		J	07/27/13 05:18	JYS
	Total C6-C35	4.94	mg/L	0.624				07/27/13 05:18	JYS
	1-Chlorooctane(surr)	80.2	%	0.624	70-125			07/27/13 05:18	JYS
	Chlorooctadecane(surr)	65.2	%	0.624	70-125		S2	07/27/13 05:18	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-15 Job Sample ID: 13071197.18
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 11:23
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/27/13 00:25	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/27/13 00:25	XA
	Toluene	BRL	mg/Kg	1	0.005			07/27/13 00:25	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/27/13 00:25	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/27/13 00:25	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/27/13 00:25	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/27/13 00:25	XA
	Trifluorotoluene(surr)	102	%	1	81-111			07/27/13 00:25	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 20:27	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 20:27	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 20:27	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 20:27	JYS
	1-Chlorooctane(surr)	99.7	%	1	60-143			07/26/13 20:27	JYS
	Chlorooctadecane(surr)	101	%	1	60-150			07/26/13 20:27	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-16 Job Sample ID: 13071197.19
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 07:39
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	1.43	mg/Kg	9.98	0.0499			07/27/13 13:01	XA
	Benzene	0.806	mg/Kg	9.98	0.0499		Q18	07/27/13 13:01	XA
	Toluene	3.29	mg/Kg	9.98	0.0499			07/27/13 13:01	XA
	Ethylbenzene	1.17	mg/Kg	9.98	0.0499			07/27/13 13:01	XA
	m- & p-Xylenes	4.15	mg/Kg	9.98	0.0998			07/27/13 13:01	XA
	o-Xylene	1.66	mg/Kg	9.98	0.0499			07/27/13 13:01	XA
	Xylenes	5.81	mg/Kg	9.98	0.0499			07/27/13 13:01	XA
	Trifluorotoluene(surr)	113	%	9.98	81-111		S6	07/27/13 13:01	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	333	mg/Kg	1	23.7		Q18	07/26/13 21:21	JYS
	>C12-C28 ¹	42.2	mg/Kg	1	20.3			07/26/13 21:21	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 21:21	JYS
	Total C6-C35	375.2	mg/Kg	1				07/26/13 21:21	JYS
	1-Chlorooctane(surr)	227	%	1	60-143		S8	07/26/13 21:21	JYS
	Chlorooctadecane(surr)	100	%	1	60-150			07/26/13 21:21	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-17 Job Sample ID: 13071197.20
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 16:31
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/27/13 00:51	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/27/13 00:51	XA
	Toluene	BRL	mg/Kg	1	0.005			07/27/13 00:51	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/27/13 00:51	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/27/13 00:51	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/27/13 00:51	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/27/13 00:51	XA
TX 1005	Trifluorotoluene(surr)	104	%	1	81-111			07/27/13 00:51	XA
	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 21:48	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 21:48	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 21:48	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 21:48	JYS
	1-Chlorooctane(surr)	105	%	1	60-143			07/26/13 21:48	JYS
	Chlorooctadecane(surr)	94.4	%	1	60-150			07/26/13 21:48	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-18 Job Sample ID: 13071197.21
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 15:51
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/27/13 01:17	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/27/13 01:17	XA
	Toluene	BRL	mg/Kg	1	0.005			07/27/13 01:17	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/27/13 01:17	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/27/13 01:17	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/27/13 01:17	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/27/13 01:17	XA
	Trifluorotoluene(surr)	100	%	1	81-111			07/27/13 01:17	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 22:16	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 22:16	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 22:16	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 22:16	JYS
	1-Chlorooctane(surr)	117	%	1	60-143			07/26/13 22:16	JYS
	Chlorooctadecane(surr)	105	%	1	60-150			07/26/13 22:16	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-19 Job Sample ID: 13071197.22
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 12:18
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Rows include SW-846 8021B (Purgeable Aromatics) and TX 1005 (Total Petroleum Hydrocarbons).



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-20 Job Sample ID: 13071197.23
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 14:10
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/27/13 02:10	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/27/13 02:10	XA
	Toluene	BRL	mg/Kg	1	0.005			07/27/13 02:10	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/27/13 02:10	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/27/13 02:10	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/27/13 02:10	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/27/13 02:10	XA
	Trifluorotoluene(surr)	104	%	1	81-111			07/27/13 02:10	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 23:10	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 23:10	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 23:10	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 23:10	JYS
	1-Chlorooctane(surr)	129	%	1	60-143			07/26/13 23:10	JYS
	Chlorooctadecane(surr)	117	%	1	60-150			07/26/13 23:10	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-21 Job Sample ID: 13071197.24
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 14:54
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/27/13 03:02	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/27/13 03:02	XA
	Toluene	BRL	mg/Kg	1	0.005			07/27/13 03:02	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/27/13 03:02	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/27/13 03:02	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/27/13 03:02	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/27/13 03:02	XA
	Trifluorotoluene(surr)	101	%	1	81-111			07/27/13 03:02	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7			07/26/13 13:30	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 13:30	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 13:30	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 13:30	JYS
	Chlorooctadecane(surr)	70.5	%	1	60-150			07/26/13 13:30	JYS
	1-Chlorooctane(surr)	70.1	%	1	60-143			07/26/13 13:30	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-22 Job Sample ID: 13071197.25
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 13:16
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1	0.005			07/27/13 03:28	XA
	Benzene	BRL	mg/Kg	1	0.005		Q18	07/27/13 03:28	XA
	Toluene	BRL	mg/Kg	1	0.005			07/27/13 03:28	XA
	Ethylbenzene	BRL	mg/Kg	1	0.005			07/27/13 03:28	XA
	m- & p-Xylenes	BRL	mg/Kg	1	0.01			07/27/13 03:28	XA
	o-Xylene	BRL	mg/Kg	1	0.005			07/27/13 03:28	XA
	Xylenes	BRL	mg/Kg	1	0.005			07/27/13 03:28	XA
TX 1005	Trifluorotoluene(surr)	105	%	1	81-111			07/27/13 03:28	XA
	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 14:01	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 14:01	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 14:01	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 14:01	JYS
	1-Chlorooctane(surr)	66.8	%	1	60-143			07/26/13 14:01	JYS
	Chlorooctadecane(surr)	67.4	%	1	60-150			07/26/13 14:01	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-22 Job Sample ID: 13071197.26
 Date Collected: 07/25/13 Sample Matrix: Water
 Time Collected: 13:28
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/L	1	0.002			07/28/13 14:37	XA
	Benzene	BRL	mg/L	1	0.002			07/28/13 14:37	XA
	Toluene	BRL	mg/L	1	0.002			07/28/13 14:37	XA
	Ethylbenzene	BRL	mg/L	1	0.002			07/28/13 14:37	XA
	m- & p-Xylenes	BRL	mg/L	1	0.004			07/28/13 14:37	XA
	o-Xylene	BRL	mg/L	1	0.002			07/28/13 14:37	XA
	Xylenes	BRL	mg/L	1	0.002			07/28/13 14:37	XA
	Trifluorotoluene(surr)	97.5	%	1	75-125			07/28/13 14:37	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/L	0.596	0.596			07/27/13 05:50	JYS
	>C12-C28 ¹	BRL	mg/L	0.596	1.47808			07/27/13 05:50	JYS
	>C28-C35 ¹	BRL	mg/L	0.596	1.12048			07/27/13 05:50	JYS
	Total C6-C35	BRL	mg/L	0.596				07/27/13 05:50	JYS
	1-Chlorooctane(surr)	56.9	%	0.596	70-125		S2	07/27/13 05:50	JYS
	Chlorooctadecane(surr)	82.3	%	0.596	70-125			07/27/13 05:50	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-23 Job Sample ID: 13071197.27
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 12:57
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.0	0.005			07/28/13 23:46	XA
	Benzene	BRL	mg/Kg	1.0	0.005		Q18	07/28/13 23:46	XA
	Toluene	BRL	mg/Kg	1.0	0.005			07/28/13 23:46	XA
	Ethylbenzene	BRL	mg/Kg	1.0	0.005			07/28/13 23:46	XA
	m- & p-Xylenes	BRL	mg/Kg	1.0	0.010			07/28/13 23:46	XA
	o-Xylene	BRL	mg/Kg	1.0	0.005			07/28/13 23:46	XA
	Xylenes	BRL	mg/Kg	1.0	0.005			07/28/13 23:46	XA
	Trifluorotoluene(surr)	94	%	1	81-111			07/28/13 23:46	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	29.1	mg/Kg	1	23.7		Q18	07/26/13 14:33	JYS
	>C12-C28 ¹	25.3	mg/Kg	1	20.3			07/26/13 14:33	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 14:33	JYS
	Total C6-C35	54.4	mg/Kg	1				07/26/13 14:33	JYS
	1-Chlorooctane(surr)	66.1	%	1	60-143			07/26/13 14:33	JYS
	Chlorooctadecane(surr)	55.2	%	1	60-150		S2	07/26/13 14:33	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-24 Job Sample ID: 13071197.28
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 12:28
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	1.0	0.005			08/05/13 13:51	XA
	Benzene	BRL	mg/Kg	1.0	0.005		Q18	08/05/13 13:51	XA
	Toluene	BRL	mg/Kg	1.0	0.005			08/05/13 13:51	XA
	Ethylbenzene	BRL	mg/Kg	1.0	0.005			08/05/13 13:51	XA
	m- & p-Xylenes	BRL	mg/Kg	1.0	0.010			08/05/13 13:51	XA
	o-Xylene	BRL	mg/Kg	1.0	0.005			08/05/13 13:51	XA
	Xylenes	BRL	mg/Kg	1.0	0.005			08/05/13 13:51	XA
	Trifluorotoluene(surr)	111	%	1	81-111			08/05/13 13:51	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	103	mg/Kg	1	23.7		Q18	07/26/13 15:04	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 15:04	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 15:04	JYS
	Total C6-C35	103	mg/Kg	1				07/26/13 15:04	JYS
	1-Chlorooctane(surr)	116	%	1	60-143			07/26/13 15:04	JYS
	Chlorooctadecane(surr)	84.9	%	1	60-150			07/26/13 15:04	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-25 Job Sample ID: 13071197.29
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 11:58
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.98	0.0049			07/27/13 06:56	XA
	Benzene	BRL	mg/Kg	0.98	0.0049		Q18	07/27/13 06:56	XA
	Toluene	BRL	mg/Kg	0.98	0.0049			07/27/13 06:56	XA
	Ethylbenzene	BRL	mg/Kg	0.98	0.0049			07/27/13 06:56	XA
	m- & p-Xylenes	BRL	mg/Kg	0.98	0.0098			07/27/13 06:56	XA
	o-Xylene	BRL	mg/Kg	0.98	0.0049			07/27/13 06:56	XA
	Xylenes	BRL	mg/Kg	0.98	0.0049			07/27/13 06:56	XA
	Trifluorotoluene(surr)	98	%	0.98	81-111			07/27/13 06:56	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	BRL	mg/Kg	1	23.7		Q18	07/26/13 15:35	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 15:35	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 15:35	JYS
	Total C6-C35	BRL	mg/Kg	1				07/26/13 15:35	JYS
	1-Chlorooctane(surr)	60.7	%	1	60-143			07/26/13 15:35	JYS
	Chlorooctadecane(surr)	60.5	%	1	60-150			07/26/13 15:35	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-26 Job Sample ID: 13071197.30
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 11:26
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	0.99	0.0049			07/27/13 07:22	XA
	Benzene	BRL	mg/Kg	0.99	0.0049		Q18	07/27/13 07:22	XA
	Toluene	BRL	mg/Kg	0.99	0.0049			07/27/13 07:22	XA
	Ethylbenzene	0.145	mg/Kg	0.99	0.0049			07/27/13 07:22	XA
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.0099			07/27/13 07:22	XA
	o-Xylene	BRL	mg/Kg	0.99	0.0049			07/27/13 07:22	XA
	Xylenes	BRL	mg/Kg	0.99	0.0049			07/27/13 07:22	XA
	Trifluorotoluene(surr)	82.5	%	0.99	81-111			07/27/13 07:22	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	63.7	mg/Kg	1	23.7		Q18	07/26/13 16:06	JYS
	>C12-C28 ¹	BRL	mg/Kg	1	20.3			07/26/13 16:06	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 16:06	JYS
	Total C6-C35	63.7	mg/Kg	1				07/26/13 16:06	JYS
	1-Chlorooctane(surr)	101	%	1	60-143			07/26/13 16:06	JYS
	Chlorooctadecane(surr)	80.9	%	1	60-150			07/26/13 16:06	JYS



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/21/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-27 Job Sample ID: 13071197.31
 Date Collected: 07/25/13 Sample Matrix: Soil
 Time Collected: 10:58
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	MTBE	BRL	mg/Kg	9.98	0.0499		D1	07/27/13 13:52	XA
	Benzene	BRL	mg/Kg	9.98	0.0499		Q18, D1	07/27/13 13:52	XA
	Toluene	BRL	mg/Kg	9.98	0.0499		D1	07/27/13 13:52	XA
	Ethylbenzene	BRL	mg/Kg	9.98	0.0499		D1	07/27/13 13:52	XA
	m- & p-Xylenes	BRL	mg/Kg	9.98	0.0998		D1	07/27/13 13:52	XA
	o-Xylene	BRL	mg/Kg	9.98	0.0499		D1	07/27/13 13:52	XA
	Xylenes	BRL	mg/Kg	9.98	0.0499		D1	07/27/13 13:52	XA
	Trifluorotoluene(surr)	66	%	9.98	81-111		S2	07/27/13 13:52	XA
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12 ¹	25.3	mg/Kg	1	23.7		Q18	07/26/13 16:37	JYS
	>C12-C28 ¹	27.3	mg/Kg	1	20.3			07/26/13 16:37	JYS
	>C28-C35 ¹	BRL	mg/Kg	1	17.7			07/26/13 16:37	JYS
	Total C6-C35	52.6	mg/Kg	1				07/26/13 16:37	JYS
	1-Chlorooctane(surr)	69.3	%	1	60-143			07/26/13 16:37	JYS
	Chlorooctadecane(surr)	64.7	%	1	60-150			07/26/13 16:37	JYS

¹-Parameter not available for accreditation

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/21/2013

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb13072903 **Created Date :** 07/26/13 **Created By :** JShah

Samples in This QC Batch : 13071197.01,02,03,04,05,06,07,09,10,11,13,14,15,16,18,19,20,21,22,23

Sample Preparation : PB13072914 **Prep Method :** TX 1005 **Prep Date :** 07/25/13 17:52 **Prep By :** JShah

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
C6-C12	TPH-1005-1	BRL	mg/Kg	1	23.7	
>C12-C28	TPH-1005-2	BRL	mg/Kg	1	20.3	
>C28-C35	TPH-1005-4	BRL	mg/Kg	1	17.7	
Total C6-C35		BRL	mg/Kg	1		
Chlorooctadecane(surr)	3386-33-2	70.8	%	1	60-150	
1-Chlorooctane(surr)	111-85-3	69.1	%	1	60-143	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	485	97	500	488	97.6	0.6	20	75-125	
>C12-C28	500	489	97.8	500	504	101	3	20	75-125	
>C28-C35	500	455	91	500	481	96.2	5.6	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/21/2013

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb13072911 **Created Date :** 07/26/13 **Created By :** JShah

Samples in This QC Batch : 13071197.24,25,27,28,29,30,31

Sample Preparation : PB13072919 **Prep Method :** TX 1005 **Prep Date :** 07/26/13 12:50 **Prep By :** JShah

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
C6-C12	TPH-1005-1	BRL	mg/Kg	1	23.7	
>C12-C28	TPH-1005-2	BRL	mg/Kg	1	20.3	
>C28-C35	TPH-1005-4	BRL	mg/Kg	1	17.7	
Total C6-C35		BRL	mg/Kg	1		
Chlorooctadecane(surr)	3386-33-2	92.2	%	1	60-150	
1-Chlorooctane(surr)	111-85-3	115	%	1	60-143	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	480	96	500	572	114	17.5	20	75-125	
>C12-C28	500	483	96.6	500	529	106	9.1	20	75-125	
>C28-C35	500	504	101	500	526	105	4.3	20	75-125	

QC Type: MS and MSD

QC Sample ID: 13071198.09

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	70.7	500	522	90.3						75-125	
>C12-C28	BRL	500	590	115						75-125	
>C28-C35	BRL	500	470	91.4						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/21/2013

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/L

QC Batch ID : Qb13072920 **Created Date :** 07/29/13 **Created By :** Xan

Samples in This QC Batch : 13071197.08,12,17,26

Sample Preparation : PB13072922 **Prep Method :** SW-846 5030C **Prep Date :** 07/26/13 18:00 **Prep By :** Xan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
MTBE	1634-04-4	BRL	mg/L	1	0.002	
Benzene	71-43-2	BRL	mg/L	1	0.002	
Toluene	108-88-3	BRL	mg/L	1	0.002	
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/L	1	0.004	
o-Xylene	95-47-6	BRL	mg/L	1	0.002	
Xylenes	1330-20-7	BRL	mg/L	1	0.002	
Trifluorotoluene(surr)	98-08-8	96.3	%	1	75-125	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
MTBE	0.02	0.021	105	0.02	0.02	100	4.9	30	69.4-124	
Benzene	0.02	0.02	100	0.02	0.02	100	0.0	30	79.1-123	
Toluene	0.02	0.019	95	0.02	0.021	105	10	30	72.3-117	
Ethylbenzene	0.02	0.019	95	0.02	0.021	105	10	30	77.4-119	
m- & p-Xylenes	0.04	0.036	90	0.04	0.041	103	13	30	77.2-127	
o-Xylene	0.02	0.02	100	0.02	0.021	105	4.9	30	71-114	
Xylenes	0.06	0.056	93.3	0.06	0.062	103	10.2	30	75.8-121	

QC Type: MS and MSD

QC Sample ID: 13071116.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
MTBE	BRL	0.02	0.02	100	0.02	0.026	130	26.1	21	68-117	M8, R4
Benzene	BRL	0.02	0.02	100	0.02	0.024	120	18.2	17	65-143	R4
Toluene	BRL	0.02	0.021	105	0.02	0.026	130	21.3	29	67-136	
Ethylbenzene	BRL	0.02	0.021	105	0.02	0.025	125	17.4	30	80-134	
m- & p-Xylenes	BRL	0.04	0.041	102	0.04	0.049	122	17.9	22	81-131	
o-Xylene	BRL	0.02	0.021	105	0.02	0.026	130	21.3	21	74-134	R4
Xylenes	BRL	0.06	0.062	103	0.06	0.075	125	19	21	80-136	R4

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/21/2013

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/L

QC Batch ID : Qb13072926 **Created Date :** 07/26/13 **Created By :** JShah

Samples in This QC Batch : 13071197.08,17,26

Sample Preparation : PB13072929 **Prep Method :** TX 1005 **Prep Date :** 07/26/13 12:30 **Prep By :** JShah

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
C6-C12	TPH-1005-1	BRL	mg/L	1	0.66	
>C12-C28	TPH-1005-2	BRL	mg/L	1	0.86	
>C28-C35	TPH-1005-4	BRL	mg/L	1	0.75	
Total C6-C35		BRL	mg/L	1		
1-Chlorooctane(surr)	111-85-3	76.1	%	1	59-122	
Chlorooctadecane(surr)	3386-33-2	74.7	%	1	48-123	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	30	31.5	105	30	31.4	105	0.3	20	75-125	
>C12-C28	30	33.3	111	30	32.7	109	1.8	20	75-125	
>C28-C35	30	33.9	113	30	30.8	103	9.6	20	75-125	

QC Type: MS and MSD

QC Sample ID: 13071197.08

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	0.760	26.8	23.7	85.6						75-125	
>C12-C28	1.074	26.8	25.9	92.6						75-125	
>C28-C35	1.361	26.8	23.5	82.6						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/21/2013

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/Kg

QC Batch ID : Qb13073008 **Created Date :** 07/30/13 **Created By :** Xan

Samples in This QC Batch : 13071197.01,02,03,04,06,07,09,10,11,13,14,15,16,18,20,21,22,23,24,25

Sample Preparation : PB13073006 **Prep Method :** SW-846 5035A **Prep Date :** 07/26/13 17:00 **Prep By :** Xan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
MTBE	1634-04-4	BRL	mg/Kg	1	0.005	
Benzene	71-43-2	BRL	mg/Kg	1	0.005	
Toluene	108-88-3	BRL	mg/Kg	1	0.005	
Ethylbenzene	100-41-4	BRL	mg/Kg	1	0.005	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/Kg	1	0.01	
o-Xylene	95-47-6	BRL	mg/Kg	1	0.005	
Xylenes	1330-20-7	BRL	mg/Kg	1	0.005	
Trifluorotoluene(surr)	98-08-8	108	%	1	81-111	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
MTBE	0.05	0.058	116	0.05	0.045	90	25.2	20	67.2-132	R4
Benzene	0.05	0.058	116	0.05	0.051	102	12.8	20	76.2-128	
Toluene	0.05	0.059	118	0.05	0.055	110	7	20	74.2-126	
Ethylbenzene	0.05	0.058	116	0.05	0.053	106	9	20	79.4-125	
m- & p-Xylenes	0.1	0.118	118	0.1	0.106	106	10.7	20	76.3-126	
o-Xylene	0.05	0.056	112	0.05	0.054	108	3.6	20	77.1-123	
Xylenes	0.15	0.174	116	0.15	0.16	107	8.4	20	77.2-125	

QC Type: MS and MSD

QC Sample ID: 13071197.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
MTBE	BRL	0.05	0.04	75.2	0.05	0.064	123	48.4	26	76-134	M2,R4
Benzene	BRL	0.05	0.046	92	0.05	0.039	78	16.5	19	68-138	
Toluene	BRL	0.05	0.047	90.8	0.05	0.039	74.8	19.3	19	67-135	R4
Ethylbenzene	BRL	0.05	0.044	88	0.05	0.037	74	17.3	20	71-127	
m- & p-Xylenes	BRL	0.1	0.087	87	0.1	0.075	75	14.8	27	56-135	
o-Xylene	BRL	0.05	0.043	83.4	0.05	0.042	81.4	2.4	24	56-134	
Xylenes	BRL	0.15	0.13	86.7	0.15	0.117	78	10.5	25	59-134	

Refer to the Definition page for terms.

10100 East Fwy (I-10)
Suite 100
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
ablabs.com



REPORT TO:

Company: **HVJ**
Address: **620 S. DAIRY ASHFORD RD HOUSTON TX 77072**
Contact: **MUHAMMAD MUSTAFA**
Phone: **281-983-8848**
Fax: **281-933-7293**
E-mail: **MMUSTAFA@HVJ.COM**

INVOICE TO:

3. PO #
3a. A&B Quote #
4. Turnaround Time (Business Days)
 1 Day*
 2 Days*
 3 Days*
 7 Days - Standard

SAME

A&B JOB ID # **13071197**

5. Project # **#E-1018381**

6. Project Name/Location
MARTIN LUTHER KING

7. Reporting Requirement:

TRRP Limits only TRRP Rpt. Package See Attached Standard Level II PST MDL EDD

8. Sampler's Name & Company (PLEASE PRINT)
EDGARDO ENSEBIO HVJ

Sampler's Signature & Date
Edgardo Ensenbio

LAB USE ONLY	9. Sample ID and Description	10. Sampling		11/ 12. Matrix							No. of Containers	13. Containers*	14. Containers*	15. Preservatives**	16. PH-Lab Only	17.	18. REMARKS	
		Date	Time 24hr	Comp	Grab	Water	Soil	Sludge	Oil	Drinking Water								Air
01A	EB-1	7-23-13	9:47	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
02A	EB-2	7-23-13	9:25	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
03A	EB-3	7-23-13	10:23	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
04A	EB-4	7-23-13	11:15	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
05A	EB-5	7-23-13	11:54	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
06A	EB-6	7-23-13	12:24	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
07A	EB-7	7-23-13	1:29	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
08A	EB-7	7-23-13	1:43	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
09A	EB-8	7-24-13	8:10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10A	EB-9	7-24-13	8:09	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

Analysis Methods
STEX + MTR
TPH

19. RELINQUISHED BY
Edgardo Ensenbio

20. RECEIVED BY
Edgardo Ensenbio

DATE TIME
7-25-13 14:40

21. KNOWN HAZARDS/COMMENTS

*Containers: VOA - 40 ml vial
4 oz/8 oz - glass wide mouth
P/O - Plastic/other
A/G - Amber/Glass 1 Liter
S - H₂SO₄
N - HNO₃
X - Other
OH - NaOH
C - Cool
H - HCl
T - Na₂S₂O₃
Preservatives: C - Cool
H - HCl
N - HNO₃
OH - NaOH
T - Na₂S₂O₃
X - Other

Temperature: **13.6**
Thermometer ID **072002370**
Intact Y N Initials **JEG**

METHOD OF SHIPMENT

BILL OF LADING/TRACKING #

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days

10100 East Fwy (I-10)
Suite 100
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
ablabs.com



1. **REPORT TO:**
Company: **HVJ**
Address: **620 S. DAIRY ASHFORD RD. HOUSTON TX 77072**
Contact: **MUHAMMAD MUSTAFA**
Phone: **281-933-8848**
Fax: **281-933-7293**
E-mail: **MUSTAFA@HVJ.COM**

2. **INVOICE TO:**
Company: **SAME**
Address: **SAME**
Contact: **SAME**
Phone: **SAME**
Fax: **SAME**
E-mail: **SAME**

3. PO #
3a. A&B Quote #
4. Turnaround Time (Business Days)
 1 Day*
 2 Days*
 3 Days*
 7 Days - Standard
*Surcharge applies

A&B JOB ID # **1307197**
5. Project # **HE-101838/**

6. Project Name/Location
MARTIN LUTHER KING

7. Reporting Requirement:
 TRRP Limits only
 TRRP Rpt. Package
 See Attached
 Standard Level II
 PST
 MDL
 EDD

8. Sampler's Name & Company (PLEASE PRINT)
Edgardo Eusebio HVJ
Sampler's Signature & Date
Edgardo Eusebio

LAB USE ONLY	9. Sample ID and Description	10. Sampling		11, 12. Matrix							18. REMARKS			
		Date	Time 24hr	Comp.	Grab	Water	Soil	Sludge	Oil	Drinking Water		Air	Other	
	11A EB-10	7-25-13	9:30	/	/	/	/	/	/	/	/	/	/	
	12ABC EB-10	7-25-13	10:13	/	/	/	/	/	/	/	/	/	/	
	13BA EB-11	7-25-13	9:20	/	/	/	/	/	/	/	/	/	/	
	14A EB-12	7-25-13	8:24	/	/	/	/	/	/	/	/	/	/	
	15A EB-13	7-24-13	9:48	/	/	/	/	/	/	/	/	/	/	
	16A EB-14	7-24-13	10:33	/	/	/	/	/	/	/	/	/	/	
	17A EB-14	7-24-13	10:43	/	/	/	/	/	/	/	/	/	/	
	18A EB-15	7-24-13	11:23	/	/	/	/	/	/	/	/	/	/	
	19A EB-16	7-25-13	7:39	/	/	/	/	/	/	/	/	/	/	
	20A EB-17	7-24-13	4:31	/	/	/	/	/	/	/	/	/	/	

19. RELINQUISHED BY: *Edgardo Eusebio*
DATE: **7-25-13** TIME: **14:38**
20. RECEIVED BY: *Stacy Johnson*
DATE: **7/25/13** TIME: **14:40**

21. KNOWN HAZARDS/COMMENTS
Temperature: **13.6 °C**
Thermometer ID: **102002370**
Intact or N: **Y** Initials: **SE**
A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days

13. Containers*
14. Containers*
15. Preservatives**
16. PH-Lab Only
17. **ANALYSIS METHODS: TPH, MTBE, BTEX + MTBE**

18. REMARKS

19. RELINQUISHED BY

20. RECEIVED BY

21. KNOWN HAZARDS/COMMENTS

Temperature: 13.6 °C
Thermometer ID: 102002370
Intact or N: Y Initials: SE

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091

Samples will be disposed of after 30 days

**Preservatives: C - Cool
OH - NaOH
H - HCl
T - Na₂S₂O₃
N - HNO₃
S - H₂SO₄
X - Other

Containers: VOA - 40 ml vial
4 oz/8 oz - glass wide mouth
P/O - Plastic/other

METHOD OF SHIPMENT

LAB USE ONLY SAMPLING RENTAL P/U

10100 East Fwy (I-10)
Suite 100
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
ablabs.com



A&B JOB ID #
1307197
5. Project #
HE-1018381

6. Project Name/Location
MARTIN LUTHER KING

7. Reporting Requirement:

TRAP Limits only TRAP Rpt. Package See Attached Standard Level II PST MDL EDD

8. Sampler's Name & Company (PLEASE PRINT) Edgardo Eusebio HVJ *Edgardo Eusebio*

1. REPORT TO:
HVJ
Company: 620 S. DAIRY ASHFORD
Address: RD. HOUSTON TX 77072
Contact: MUHAMMAD MUSTAFA
Phone: 281-983-8848
Fax: 281-933-7293
E-mail: MMUSTAFA@HVJ.COM

2. INVOICE TO:
SAME
Company:
Address:
Contact:
Phone:
Fax:
E-mail:

3. PO #
3a. A&B Quote #
4. Turnaround Time (Business Days)
 1 Day* Other:
 2 Days*
 3 Days* *Surcharge applies
 7 Days - Standard

13. Containers*	
15. Preservatives**	
16. PH-Lab Only	
17. Analysis Methods	<u>TEXT + MTR</u>

LAB USE ONLY	9. Sample ID and Description	10. Sampling		11. 12. Matrix							18. REMARKS				
		Date	Time 24hr	Comp.	Grab	Water	Soil	Sludge	Oil	Drinking Water		Air	Other		
	<u>201A EB-18</u>	<u>7-24-13</u>	<u>3:51</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>202A EB-19</u>	<u>7-24-13</u>	<u>12:18</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>203A EB-20</u>	<u>7-24-13</u>	<u>2:10</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>204A EB-21</u>	<u>7-24-13</u>	<u>2:54</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>205A EB-22</u>	<u>7-25-13</u>	<u>1:16</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>206A-F EB-22</u>	<u>7-25-13</u>	<u>1:28</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>207A EB-23</u>	<u>7-25-13</u>	<u>12:57</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>208A EB-24</u>	<u>7-25-13</u>	<u>12:28</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>209A EB-25</u>	<u>7-25-13</u>	<u>11:58</u>	/	/	/	/	/	/	/	/	/	/	/	
	<u>310A EB-26</u>	<u>7-25-13</u>	<u>11:26</u>	/	/	/	/	/	/	/	/	/	/	/	

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	21. KNOWN HAZARDS/COMMENTS
<u>Edgardo Eusebio</u>	<u>7-25-13</u>	<u>4:38</u>	<u>MUSTAFA</u>	<u>7-25-13</u>	<u>14:40</u>	

19. Containers*
15. Preservatives**
16. PH-Lab Only
17. Analysis Methods

Temperature: 18.6 °C
Thermometer ID 10200320
Intact or N Initials JE

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091

Samples will be disposed of after 30 days

**Preservatives: C - Cool H - HCl N - HNO₃ S - H₂SO₄
OH - NaOH T - Na₂S₂O₃ X - Other

METHOD OF SHIPMENT
A/G - Amber/Glass 1 Liter
P/O - Plastic/other

BILL OF LADING/TRACKING #



Sample Condition Checklist

A&B JobID : 13071197	Date Received : 07/25/2013	Time Received : 2:40PM
Client Name : HVJ Associates		
Temperature : 13.6°C	Sample pH : NA	
Thermometer ID : 102002320	pH Paper ID : NA	

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

Comments : Include actions taken to resolve discrepancies/problem:

Received by : Dlopez

Check in by/date : Dlopez / 07/25/2013

Laboratory Analysis Report

Total Number of Pages: 24

Job ID : 13071197



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

Client Project Name :
HE-1018381 / Martin Luther King

Report To : Client Name: HVJ Associates
Attn: Muhammad Mustafa
Client Address: 6120 S. Dairy Ashford
City, State, Zip: Houston, Texas, 77072

P.O.#.:
Sample Collected By: Edgardo Eusebio
Date Collected: 07/24/13 - 07/25/13

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

Client Sample ID	Matrix	A&B Sample ID
EB-16	Soil	13071197.19
EB-17	Soil	13071197.20
EB-18	Soil	13071197.21
EB-19	Soil	13071197.22
EB-20	Soil	13071197.23
EB-21	Soil	13071197.24

Alisha Hughes

Released By: Alisha Hughes

Title: PM

Date: 8/29/2013



This Laboratory is NELAP (T104704213-13-8) accredited. Effective: 04/01/2013; Expires: 03/31/2014

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 07/25/2013 14:40

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 13071197

Date: 8/29/2013

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

M8 Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-16 Job Sample ID: 13071197.19
Date Collected: 07/25/13 Sample Matrix: Soil
Time Collected: 07:39
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Contains data for SW-846 8260C Volatile Organic Compounds.

**LABORATORY TEST RESULTS**

Date 8/29/2013

Job ID : 13071197

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-16 Job Sample ID: 13071197.19
Date Collected: 07/25/13 Sample Matrix Soil
Time Collected: 07:39
Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Dibromomethane	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Dichlorodifluoromethane	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Ethylbenzene	0.335	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Isopropylbenzene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	m- & p-Xylenes	1.51	mg/Kg	49.2	0.4921			08/28/13 21:54	BPC
	MEK	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Methylene chloride	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Naphthalene	1.52	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	n-Butylbenzene	0.43	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	n-Propylbenzene	0.502	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	o-Xylene	0.728	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	sec-Butylbenzene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Styrene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	t-butylbenzene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Tetrachloroethylene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Toluene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	trans-1,2-Dichloroethylene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	trans-1,3-Dichloropropene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Trichloroethylene	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Trichlorofluoromethane	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	Vinyl Chloride	BRL	mg/Kg	49.2	0.2461			08/28/13 21:54	BPC
	1,2-Dichloroethane-d4(surr)	103	%	246.1	70-130			08/28/13 21:54	BPC
	Dibromofluoromethane(surr)	101	%	49.2	70-130			08/28/13 21:54	BPC
	p-Bromofluorobenzene(surr)	128	%	49.2	70-130			08/28/13 21:54	BPC
	Toluene-d8(surr)	105	%	49.2	70-130			08/28/13 21:54	BPC



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-17 Job Sample ID: 13071197.20
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 16:31
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. It lists various chemical compounds and their test results for SW-846 8260C.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-17 Job Sample ID: 13071197.20
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 16:31
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Rows include Volatile Organic Compounds and various chemical species like Dibromomethane, Dichlorodifluoromethane, etc.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-18 Job Sample ID: 13071197.21
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 15:51
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Contains data for SW-846 8260C Volatile Organic Compounds with 30 rows of chemical analysis results.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
 Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-18 Job Sample ID: 13071197.21
 Date Collected: 07/24/13 Sample Matrix: Soil
 Time Collected: 15:51
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Dibromomethane	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Dichlorodifluoromethane	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Ethylbenzene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Isopropylbenzene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	m- & p-Xylenes	BRL	mg/Kg	1.0	0.0101			08/28/13 18:53	BPC
	MEK	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Methylene chloride	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Naphthalene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	n-Butylbenzene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	n-Propylbenzene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	o-Xylene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	sec-Butylbenzene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Styrene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	t-butylbenzene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Tetrachloroethylene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Toluene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	trans-1,2-Dichloroethylene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	trans-1,3-Dichloropropene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Trichloroethylene	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Trichlorofluoromethane	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	Vinyl Chloride	BRL	mg/Kg	1.0	0.0050			08/28/13 18:53	BPC
	1,2-Dichloroethane-d4(surr)	111	%	1.0	70-130			08/28/13 18:53	BPC
	Dibromofluoromethane(surr)	97.1	%	1.0	70-130			08/28/13 18:53	BPC
	p-Bromofluorobenzene(surr)	113	%	1.0	70-130			08/28/13 18:53	BPC
	Toluene-d8(surr)	106	%	1.0	70-130			08/28/13 18:53	BPC



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-19 Job Sample ID: 13071197.22
Date Collected: 07/24/13 Sample Matrix Soil
Time Collected: 12:18
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. It lists various Volatile Organic Compounds and their test results.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-19 Job Sample ID: 13071197.22
Date Collected: 07/24/13 Sample Matrix Soil
Time Collected: 12:18
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Rows include SW-846 8260C Volatile Organic Compounds and various chemical species like Dibromomethane, Dichlorodifluoromethane, etc.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-20 Job Sample ID: 13071197.23
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 14:10
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Contains data for SW-846 8260C Volatile Organic Compounds with various chemical names and their corresponding results.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-20 Job Sample ID: 13071197.23
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 14:10
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Rows include Volatile Organic Compounds and various chemical species like Dibromomethane, Dichlorodifluoromethane, Ethylbenzene, etc.



LABORATORY TEST RESULTS

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates Attn: Muhammad Mustafa
Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-21 Job Sample ID: 13071197.24
Date Collected: 07/24/13 Sample Matrix: Soil
Time Collected: 14:54
Other Information:

Table with 10 columns: Test Method, Parameter/Test Description, Result, Units, DF, Rpt Limit, Reg Limit, Q, Date Time, Analyst. Contains data for SW-846 8260C Volatile Organic Compounds.

**LABORATORY TEST RESULTS**

Job ID : 13071197

Date 8/29/2013

Client Name: HVJ Associates

Attn: Muhammad Mustafa

Project Name: HE-1018381 / Martin Luther King

Client Sample ID: EB-21

Job Sample ID: 13071197.24

Date Collected: 07/24/13

Sample Matrix Soil

Time Collected: 14:54

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Dibromomethane	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Dichlorodifluoromethane	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Ethylbenzene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Isopropylbenzene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	m- & p-Xylenes	BRL	mg/Kg	1.0	0.0098			08/28/13 20:24	BPC
	MEK	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Methylene chloride	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Naphthalene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	n-Butylbenzene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	n-Propylbenzene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	o-Xylene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	sec-Butylbenzene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Styrene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	t-butylbenzene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Tetrachloroethylene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Toluene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	trans-1,2-Dichloroethylene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	trans-1,3-Dichloropropene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Trichloroethylene	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Trichlorofluoromethane	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	Vinyl Chloride	BRL	mg/Kg	1.0	0.0049			08/28/13 20:24	BPC
	1,2-Dichloroethane-d4(surr)	109	%	1.0	70-130			08/28/13 20:24	BPC
	Dibromofluoromethane(surr)	100	%	1.0	70-130			08/28/13 20:24	BPC
	p-Bromofluorobenzene(surr)	116	%	1.0	70-130			08/28/13 20:24	BPC
	Toluene-d8(surr)	108	%	1.0	70-130			08/28/13 20:24	BPC

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/29/2013

Analysis : Volatile Organic Compounds Method : SW-846 8260C Reporting Units : mg/Kg

QC Batch ID : Qb13082916 Created Date : 08/28/13 Created By : BPcastro

Samples in This QC Batch : 13071197.19,20,21,22,23,24

Sample Preparation : PB13082908 Prep Method : SW-846 5035A Prep Date : 08/28/13 10:00 Prep By : BPcastro

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,1,1,2-Tetrachloroethane	630-20-6	BRL	mg/Kg	1	0.005	
1,1,1-Trichloroethane	71-55-6	BRL	mg/Kg	1	0.005	
1,1,2,2-Tetrachloroethane	79-34-5	BRL	mg/Kg	1	0.005	
1,1,2-Trichloroethane	79-00-5	BRL	mg/Kg	1	0.005	
1,1-Dichloroethane	75-34-3	BRL	mg/Kg	1	0.005	
1,1-Dichloroethylene	75-35-4	BRL	mg/Kg	1	0.005	
1,1-Dichloropropene	563-58-6	BRL	mg/Kg	1	0.005	
1,2,3-trichlorobenzene	87-61-6	BRL	mg/Kg	1	0.005	
1,2,3-Trichloropropane	96-18-4	BRL	mg/Kg	1	0.005	
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/Kg	1	0.005	
1,2,4-Trimethylbenzene	95-63-6	BRL	mg/Kg	1	0.005	
1,2-Dibromo-3-chloropropa	96-12-8	BRL	mg/Kg	1	0.005	
1,2-Dibromoethane	106-93-4	BRL	mg/Kg	1	0.005	
1,2-Dichlorobenzene	95-50-1	BRL	mg/Kg	1	0.005	
1,2-Dichloroethane	107-06-2	BRL	mg/Kg	1	0.005	
1,2-Dichloropropane	78-87-5	BRL	mg/Kg	1	0.005	
1,3,5-Trimethylbenzene	108-67-8	BRL	mg/Kg	1	0.005	
1,3-Dichlorobenzene	541-73-1	BRL	mg/Kg	1	0.005	
1,3-Dichloropropane	142-28-9	BRL	mg/Kg	1	0.005	
1,4-Dichlorobenzene	106-46-7	BRL	mg/Kg	1	0.005	
2,2-Dichloropropane	594-20-7	BRL	mg/Kg	1	0.005	
2-Chlorotoluene	95-49-8	BRL	mg/Kg	1	0.005	
4-Chlorotoluene	106-43-4	BRL	mg/Kg	1	0.005	
4-Isopropyltoluene	99-87-6	BRL	mg/Kg	1	0.005	
Benzene	71-43-2	BRL	mg/Kg	1	0.005	
Bromobenzene	108-86-1	BRL	mg/Kg	1	0.005	
Bromochloromethane	74-97-5	BRL	mg/Kg	1	0.005	
Bromodichloromethane	75-27-4	BRL	mg/Kg	1	0.005	
Bromoform	75-25-2	BRL	mg/Kg	1	0.005	
Bromomethane	74-83-9	BRL	mg/Kg	1	0.005	
Carbon tetrachloride	56-23-5	BRL	mg/Kg	1	0.005	
Chlorobenzene	108-90-7	BRL	mg/Kg	1	0.005	
Chloroethane	75-00-3	BRL	mg/Kg	1	0.005	
Chloroform	67-66-3	BRL	mg/Kg	1	0.005	
Chloromethane	74-87-3	BRL	mg/Kg	1	0.005	
cis-1,2-Dichloroethylene	156-59-2	BRL	mg/Kg	1	0.005	
cis-1,3-Dichloropropene	10061-01-5	BRL	mg/Kg	1	0.005	
Dibromochloromethane	124-48-1	BRL	mg/Kg	1	0.005	
Dibromomethane	74-95-3	BRL	mg/Kg	1	0.005	
Dichlorodifluoromethane	75-71-8	BRL	mg/Kg	1	0.005	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/29/2013

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/Kg

QC Batch ID : Qb13082916 **Created Date :** 08/28/13 **Created By :** BPcastro

Samples in This QC Batch : 13071197.19,20,21,22,23,24

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Ethylbenzene	100-41-4	BRL	mg/Kg	1	0.005	
Isopropylbenzene	98-82-8	BRL	mg/Kg	1	0.005	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/Kg	1	0.01	
MEK	78-93-3	BRL	mg/Kg	1	0.005	
Methylene chloride	75-09-2	BRL	mg/Kg	1	0.005	
Naphthalene	91-20-3	BRL	mg/Kg	1	0.005	
n-Butylbenzene	104-51-8	BRL	mg/Kg	1	0.005	
n-Propylbenzene	103-65-1	BRL	mg/Kg	1	0.005	
o-Xylene	95-47-6	BRL	mg/Kg	1	0.005	
sec-Butylbenzene	135-98-8	BRL	mg/Kg	1	0.005	
Styrene	100-42-5	BRL	mg/Kg	1	0.005	
t-butylbenzene	98-06-6	BRL	mg/Kg	1	0.005	
Tetrachloroethylene	127-18-4	BRL	mg/Kg	1	0.005	
Toluene	108-88-3	BRL	mg/Kg	1	0.005	
trans-1,2-Dichloroethylene	156-60-5	BRL	mg/Kg	1	0.005	
trans-1,3-Dichloropropene	10061-02-6	BRL	mg/Kg	1	0.005	
Trichloroethylene	79-01-6	BRL	mg/Kg	1	0.005	
Trichlorofluoromethane	75-69-4	BRL	mg/Kg	1	0.005	
Vinyl Chloride	75-01-4	BRL	mg/Kg	1	0.005	
Dibromofluoromethane(surr)	1868-53-7	102	%	1	70-130	
1,2-Dichloroethane-d4(surr)	17060-07-0	103	%	1	70-130	
Toluene-d8(surr)	2037-26-5	106	%	1	70-130	
p-Bromofluorobenzene(surr)	460-00-4	116	%	1	70-130	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrtLimit	%Recovery CtrtLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.02	100	0.02	0.021	105	4.9	30	71.4-131	
1,1,1-Trichloroethane	0.02	0.022	110	0.02	0.022	110	0	30	69.6-140	
1,1,2,2-Tetrachloroethane	0.02	0.021	105	0.02	0.021	105	0	30	66.6-128	
1,1,2-Trichloroethane	0.02	0.021	105	0.02	0.021	105	0	30	72.8-125	
1,1-Dichloroethane	0.02	0.021	105	0.02	0.021	105	0	30	72.7-129	
1,1-Dichloroethylene	0.02	0.022	110	0.02	0.022	110	0	30	71.4-131	
1,1-Dichloropropene	0.02	0.021	105	0.02	0.021	105	0	30	75.9-132	
1,2,3-trichlorobenzene	0.02	0.02	100	0.02	0.02	100	0	30	56.7-153	
1,2,3-Trichloropropane	0.02	0.021	105	0.02	0.022	110	4.6	30	61.6-138	
1,2,4-Trichlorobenzene	0.02	0.02	100	0.02	0.019	95	5.1	30	55.9-150	
1,2,4-Trimethylbenzene	0.02	0.022	110	0.02	0.022	110	0	30	71.1-131	
1,2-Dibromo-3-chloropropa	0.02	0.02	100	0.02	0.021	105	4.9	30	52.4-150	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/29/2013

Analysis : Volatile Organic Compounds Method : SW-846 8260C Reporting Units : mg/Kg

QC Batch ID : Qb13082916 Created Date : 08/28/13 Created By : BPcastro

Samples in This QC Batch : 13071197.19,20,21,22,23,24

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dibromoethane	0.02	0.021	105	0.02	0.021	105	0	30	72.9-125	
1,2-Dichlorobenzene	0.02	0.021	105	0.02	0.021	105	0	30	76.1-126	
1,2-Dichloroethane	0.02	0.022	110	0.02	0.02	100	9.5	30	66.4-134	
1,2-Dichloropropane	0.02	0.022	110	0.02	0.021	105	4.6	30	70.2-128	
1,3,5-Trimethylbenzene	0.02	0.022	110	0.02	0.022	110	0	30	75.1-127	
1,3-Dichlorobenzene	0.02	0.021	105	0.02	0.02	100	4.9	30	73.9-126	
1,3-Dichloropropane	0.02	0.021	105	0.02	0.02	100	4.9	30	68.3-124	
1,4-Dichlorobenzene	0.02	0.021	105	0.02	0.021	105	0	30	72.3-127	
2,2-Dichloropropane	0.02	0.02	100	0.02	0.021	105	4.9	30	68.5-138	
2-Chlorotoluene	0.02	0.021	105	0.02	0.022	110	4.6	30	71.7-128	
4-Chlorotoluene	0.02	0.021	105	0.02	0.021	105	0	30	72.2-126	
4-Isopropyltoluene	0.02	0.022	110	0.02	0.023	115	4.4	30	77.5-125	
Benzene	0.02	0.022	110	0.02	0.021	105	4.6	30	74-126	
Bromobenzene	0.02	0.021	105	0.02	0.021	105	0	30	73.3-129	
Bromochloromethane	0.02	0.021	105	0.02	0.021	105	0	30	68.8-131	
Bromodichloromethane	0.02	0.022	110	0.02	0.021	105	4.6	30	69-135	
Bromoform	0.02	0.021	105	0.02	0.02	100	4.9	30	62-146	
Bromomethane	0.02	0.023	115	0.02	0.022	110	4.4	30	58.7-139	
Carbon tetrachloride	0.02	0.022	110	0.02	0.022	110	0	30	68.7-135	
Chlorobenzene	0.02	0.021	105	0.02	0.021	105	0	30	73.3-129	
Chloroethane	0.02	0.021	105	0.02	0.023	115	9.1	30	66.2-129	
Chloroform	0.02	0.022	110	0.02	0.021	105	4.6	30	73.7-134	
Chloromethane	0.02	0.022	110	0.02	0.021	105	4.6	30	51.4-135	
cis-1,2-Dichloroethylene	0.02	0.021	105	0.02	0.021	105	0	30	72.4-132	
cis-1,3-Dichloropropene	0.02	0.021	105	0.02	0.02	100	4.9	30	67.7-134	
Dibromochloromethane	0.02	0.021	105	0.02	0.021	105	0	30	73.2-126	
Dibromomethane	0.02	0.022	110	0.02	0.021	105	4.6	30	69.9-134	
Dichlorodifluoromethane	0.02	0.022	110	0.02	0.022	110	0	30	36.8-144	
Ethylbenzene	0.02	0.022	110	0.02	0.022	110	0	30	72.2-128	
Isopropylbenzene	0.02	0.022	110	0.02	0.022	110	0	30	71.2-131	
m- & p-Xylenes	0.04	0.044	110	0.04	0.044	110	0	30	70.7-131	
MEK	0.02	0.019	95	0.02	0.021	105	10	30	52.5-152	
Methylene chloride	0.02	0.020	100	0.02	0.02	100	0	30	70.6-129	
Naphthalene	0.02	0.021	105	0.02	0.021	105	0	30	60.7-145	
n-Butylbenzene	0.02	0.022	110	0.02	0.022	110	0	30	66.5-136	
n-Propylbenzene	0.02	0.022	110	0.02	0.023	115	4.4	30	73.3-126	
o-Xylene	0.02	0.022	110	0.02	0.022	110	0	30	71.6-130	
sec-Butylbenzene	0.02	0.022	110	0.02	0.023	115	4.4	30	77.9-124	
Styrene	0.02	0.021	105	0.02	0.021	105	0	30	71.1-131	
t-butylbenzene	0.02	0.022	110	0.02	0.022	110	0	30	74.4-130	
Tetrachloroethylene	0.02	0.021	105	0.02	0.022	110	4.6	30	62.6-157	
Toluene	0.02	0.02	100	0.02	0.021	105	4.9	30	73.3-127	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/29/2013

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb13082916 **Created Date :** 08/28/13

Created By : BPCastro

Samples in This QC Batch : 13071197.19,20,21,22,23,24

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	0.02	0.021	105	0.02	0.021	105	0	30	80-120	
trans-1,3-Dichloropropene	0.02	0.021	105	0.02	0.02	100	4.9	30	71.5-124	
Trichloroethylene	0.02	0.022	110	0.02	0.021	105	4.6	30	69.2-133	
Trichlorofluoromethane	0.02	0.023	115	0.02	0.022	110	4.4	30	63.9-140	
Vinyl Chloride	0.02	0.022	110	0.02	0.022	110	0	30	40.9-159	

QC Type: MS and MSD

QC Sample ID: 13071197.20

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.019	0.019	100	0.02	0.016	80	17.1	35	71.4-131	
1,1,1-Trichloroethane	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	69.6-140	
1,1,2,2-Tetrachloroethane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	66.6-128	
1,1,2-Trichloroethane	BRL	0.019	0.019	100	0.02	0.018	90	5.4	35	72.8-125	
1,1-Dichloroethane	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	72.7-129	
1,1-Dichloroethylene	BRL	0.019	0.019	100	0.02	0.018	90	5.4	35	71.4-131	
1,1-Dichloropropene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	75.9-132	
1,2,3-trichlorobenzene	BRL	0.019	0.02	105	0.02	0.017	85	16.2	35	56.7-153	
1,2,3-Trichloropropane	BRL	0.019	0.02	105	0.02	0.018	90	10.5	35	61.6-138	
1,2,4-Trichlorobenzene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	55.9-150	
1,2,4-Trimethylbenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	71.1-131	
1,2-Dibromo-3-chloropropa	BRL	0.019	0.02	105	0.02	0.019	95	5.1	35	52.4-150	
1,2-Dibromoethane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	72.9-125	
1,2-Dichlorobenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	76.1-126	
1,2-Dichloroethane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	66.4-134	
1,2-Dichloropropane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	70.2-128	
1,3,5-Trimethylbenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	75.1-127	
1,3-Dichlorobenzene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	73.9-126	
1,3-Dichloropropane	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	68.3-124	
1,4-Dichlorobenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	72.3-127	
2,2-Dichloropropane	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	68.5-138	
2-Chlorotoluene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	71.7-128	
4-Chlorotoluene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	72.2-126	
4-Isopropyltoluene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	77.5-125	
Benzene	BRL	0.019	0.017	89.5	0.02	0.015	75	12.5	35	74-126	
Bromobenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	73.3-129	
Bromochloromethane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	68.8-131	
Bromodichloromethane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	69-135	
Bromoform	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	62-146	
Bromomethane	BRL	0.019	0.019	100	0.02	0.016	80	17.1	35	58.7-139	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 13071197

Date : 8/29/2013

Analysis : Volatile Organic Compounds Method : SW-846 8260C Reporting Units : mg/Kg

QC Batch ID : Qb13082916 Created Date : 08/28/13 Created By : BPCastro

Samples in This QC Batch : 13071197.19,20,21,22,23,24

QC Type: MS and MSD											
QC Sample ID: 13071197.20											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Carbon tetrachloride	BRL	0.019	0.018	94.7	0.02	0.016	80	11.8	35	68.7-135	
Chlorobenzene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	73.3-129	
Chloroethane	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	66.2-129	
Chloroform	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	73.7-134	
Chloromethane	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	51.4-135	
cis-1,2-Dichloroethylene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	72.4-132	
cis-1,3-Dichloropropene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	67.7-134	
Dibromochloromethane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	73.2-126	
Dibromomethane	BRL	0.019	0.02	105	0.02	0.017	85	16.2	35	69.9-134	
Dichlorodifluoromethane	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	36.8-144	
Ethylbenzene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	72.2-128	
Isopropylbenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	71.2-131	
m- & p-Xylenes	BRL	0.039	0.038	97.4	0.039	0.035	89.7	8.2	35	70.7-131	
MEK	BRL	0.019	0.032	168	0.02	0.03	150	6.4	35	52.5-152	M8
Methylene chloride	BRL	0.019	0.02	105	0.02	0.018	90	10.5	35	70.6-129	
Naphthalene	BRL	0.019	0.02	105	0.02	0.019	95	5.1	35	60.7-145	
n-Butylbenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	66.5-136	
n-Propylbenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	73.3-126	
o-Xylene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	71.6-130	
sec-Butylbenzene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	77.9-124	
Styrene	BRL	0.019	0.019	100	0.02	0.017	85	11.1	35	71.1-131	
t-butylbenzene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	74.4-130	
Tetrachloroethylene	BRL	0.019	0.025	132	0.02	0.025	125	0	35	62.6-157	
Toluene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	73.3-127	
trans-1,2-Dichloroethylene	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	70-130	
trans-1,3-Dichloropropene	BRL	0.019	0.02	105	0.02	0.017	85	16.2	35	71.5-124	
Trichloroethylene	BRL	0.019	0.02	105	0.02	0.018	90	10.5	35	69.2-133	
Trichlorofluoromethane	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	63.9-140	
Vinyl Chloride	BRL	0.019	0.018	94.7	0.02	0.017	85	5.7	35	40.9-159	

Refer to the Definition page for terms.

1. REPORT TO: **HVJ**
 Company: **620 S. DAIRY ASHFORD RD HOUSTON TX 77072**
 Address: **HOUSTON TX 77072**
 Contact: **MUHAMMAD MUSTAFA**
 Phone: **281-983-8848**
 Fax: **281-933-7293**
 E-mail: **MMUSTAFA@HVJ.COM**

2. INVOICE TO: **SAME**
 Company: _____
 Address: _____
 Contact: _____
 Phone: _____
 Fax: _____
 E-mail: _____

3. PO # _____
 3a. A&B Quote # _____
 4. Turnaround Time (Business Days)
 1 Day* Other:
 2 Days* *Surcharge applies
 3 Days* *Surcharge applies
 7 Days - Standard

6. Project Name/Location: **MARTIN LUTHER KING**

7. Reporting Requirement: TRP Limits only TRP Rpt. Package See Attached Standard Level II PST MDL EDD

8. Sampler's Name & Company (PLEASE PRINT): **EDGARDO ENSERIO HVJ**
 Sampler's Signature & Date: *Edgar Enserio*

LAB USE ONLY	9. Sample ID and Description	10. Sampling		11/ 12. Matrix								
		Date	Time 24hr	Comp	Grab	Water	Soil	Sludge	Oil	Drinking Water	Air	Other
01A	EB-1	7-23-13	9:47	/	/	/	/	/	/	/	/	/
02A	EB-2	7-23-13	9:25	/	/	/	/	/	/	/	/	/
03A	EB-3	7-23-13	10:23	/	/	/	/	/	/	/	/	/
04A	EB-4	7-23-13	11:15	/	/	/	/	/	/	/	/	/
05A	EB-5	7-23-13	11:54	/	/	/	/	/	/	/	/	/
06A	EB-6	7-23-13	12:24	/	/	/	/	/	/	/	/	/
07A	EB-7	7-23-13	1:29	/	/	/	/	/	/	/	/	/
08A-F	EB-7	7-23-13	1:43	/	/	/	/	/	/	/	/	/
09A	EB-8	7-24-13	8:10	/	/	/	/	/	/	/	/	/
10A	EB-9	7-24-13	8:54	/	/	/	/	/	/	/	/	/

19. RELINQUISHED BY: *Edgar Enserio* DATE: **7-25-13 14:38** TIME: **14:38** RECEIVED BY: *[Signature]* DATE: **7-25-13** TIME: **14:40**

21. KNOWN HAZARDS/COMMENTS: _____

13. Containers* _____
 14. Containers* _____
 15. Preservatives** _____
 16. PH-Lab Only _____
 17. _____

18. REMARKS: _____

Temperature: **13.6**
 Thermometer ID: **102052320**
 Intact Or N Initials: **JEJ**

A&B cannot accept verbal changes
 Please FAX written changes to 713-453-6091
 Samples will be disposed of after 30 days

10100 East Fwy (I-10)
Suite 100
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
ablabs.com



1. **REPORT TO:**
Company: **HVJ**
Address: **620 S. DAIRY ASHFORD RD. HOUSTON TX 77072**
Contact: **MUHAMMAD MUSTAFA**
Phone: **281-983-8848**
Fax: **281-933-7293**
E-mail: **MMUSTAFA@HVJ.COM**

2. **INVOICE TO:**
Company: **SAME**
Address: **SAME**
Contact: **SAME**
Phone: **SAME**
Fax: **SAME**
E-mail: **SAME**

3. PO #
3a. A&B Quote #
4. Turnaround Time (Business Days)
 1 Day* Other:
 2 Days*
 3 Days* *Surcharge applies
 7 Days - Standard

A&B JOB ID # **1307197**
Project # **HE-101838/**

6. Project Name/Location
MARTIN LUTHER KING

7. Reporting Requirement:
 TRRP Limits only TRRP Rpt. Package See Attached Standard Level II PST MDL EDD

8. Sampler's Name & Company (PLEASE PRINT)
Edgardo Eusebio HVJ *Edgardo Eusebio*

LAB USE ONLY	9. Sample ID and Description	10. Sampling		11./ 12. Matrix							13. Containers*	14. Containers*	15. Preservatives**	16. PH-Lab Only	17.	18. REMARKS	
		Date	Time 24hr	Comp.	Grab	Water	Soil	Sludge	Oil	Drinking Water							Air
	11A EB-10	7-25-13	9:56	/	/	/	/	/	/	/	/	1					
	12A EB-10	7-25-13	10:13	/	/	/	/	/	/	/	/	3					
	13A EB-11	7-25-13	9:20	/	/	/	/	/	/	/	/	1					
	14A EB-12	7-25-13	8:24	/	/	/	/	/	/	/	/	1					
	15A EB-13	7-24-13	9:48	/	/	/	/	/	/	/	/	1					
	16A EB-14	7-24-13	10:33	/	/	/	/	/	/	/	/	1					
	17A EB-14	7-24-13	10:45	/	/	/	/	/	/	/	/	6					
	18A EB-15	7-24-13	11:23	/	/	/	/	/	/	/	/	1					
	19A EB-16	7-25-13	7:39	/	/	/	/	/	/	/	/	1					
	20A EB-17	7-24-13	4:31	/	/	/	/	/	/	/	/	1					
19. RELINQUISHED BY		DATE	TIME	20. RECEIVED BY							DATE	TIME	21. KNOWN HAZARDS/COMMENTS				
<i>Edgardo Eusebio</i>		7-25-13	14:38	<i>Sameh Al-Jawouh</i>							7/25/13	14:40					

*Containers: VOA - 40 ml vial
A/G - Amber/Glass 1 Liter
4 oz/8 oz - glass wide mouth
P/O - Plastic/other

**Preservatives: C - Cool
OH - NaOH
T - Na₂S₂O₃
N - HNO₃
S - H₂SO₄
X - Other

METHOD OF SHIPMENT

BILL OF LADING/TRACKING #

RENTAL P/U

LAB USE ONLY SAMPLING

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091

Samples will be disposed of after 30 days

1. REPORT TO:
 Company: HVJ
 Address: 620 S. DAIRY ASHFORD
RD. HOUSTON TX 77072
 Contact: MUHAMMAD MUSTAFA
 Phone: 281-983-8848
 Fax: 281-933-7293
 E-mail: MMUSTAFACHHVJ.COM

2. COMPANY:
 Company: ASHFORD
 Address: RD. HOUSTON TX 77072
 Contact: MUHAMMAD MUSTAFA
 Phone: 281-983-8848
 Fax: 281-933-7293
 E-mail: MMUSTAFACHHVJ.COM

3. PO #
 3a. A&B Quote #
 4. Turnaround Time (Business Days)
 1 Day* Other:
 2 Days* *Surcharge applies
 3 Days*
 7 Days - Standard

5. Project # AE-1018381

6. Project Name/Location
MARTIN LUTHER KING

7. Reporting Requirement:
 TRRP Limits only TRRP Rpt. Package See Attached Standard Level II PST MDL EDD

8. Sampler's Name & Company (PLEASE PRINT)
Edgardo Eusebio HVJ Sampler's Signature & Date: [Signature]

LAB USE ONLY	9. Sample ID and Description	10. Sampling		11. 12. Matrix							18. REMARKS		
		Date	Time 24hr	Comp.	Grab	Water	Soil	Sludge	Oil	Drinking Water		Air	Other
	201A EB-18	7-24-13	3:51	/	/	/	/	/	/	/	/	/	
	202A EB-19	7-24-13	12:18	/	/	/	/	/	/	/	/	/	
	203A EB-20	7-24-13	2:10	/	/	/	/	/	/	/	/	/	
	204A EB-21	7-24-13	2:54	/	/	/	/	/	/	/	/	/	
	205A EB-22	7-25-13	1:16	/	/	/	/	/	/	/	/	/	
	206A EB-22	7-25-13	1:28	/	/	/	/	/	/	/	/	/	
	207A EB-23	7-25-13	2:57	/	/	/	/	/	/	/	/	/	
	208A EB-24	7-25-13	2:28	/	/	/	/	/	/	/	/	/	
	209A EB-25	7-25-13	1:58	/	/	/	/	/	/	/	/	/	
	310A EB-26	7-25-13	1:26	/	/	/	/	/	/	/	/	/	

15. RELINQUISHED BY
[Signature]

19. ANALYSES/METHODS
ETEX + MTRB

20. RECEIVED BY
[Signature]

21. KNOWN HAZARDS/COMMENTS
TPH

13. CONTAINERS
 14. Containers*
 15. Preservatives**
 16. PH-Lab Only

17. No. of Containers
 18. REMARKS

21. KNOWN HAZARDS/COMMENTS
 Temperature: 18.6 °C
 Thermometer ID: 10200320
 Intact: Y or N Initials: JEG

METHOD OF SHIPMENT
 *Containers: VOA - 40 ml vial A/G - Amber/Glass 1 Liter
 4 oz/8 oz - glass wide mouth P/O - Plastic/other
 **Preservatives: C - Cool H - HCl N - HNO₃ S - H₂SO₄
 OH - NaOH T - Na₂S₂O₃ X - Other

A&B cannot accept verbal changes
 Please FAX written changes to 713-453-6091
 Samples will be disposed of after 30 days

10100 East Fwy (I-10)
Suite 100
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
ablabs.com



A&B JOB ID # 13071197
Project # HE-1018381

1. REPORT TO: HVJ
Company: HVJ
Address: 6120 S. DAIRY ASHFORD RD. HOUSTON 77072
Contact: MUHAMMAD MUSTAFA
Phone: 281-983-8848
Fax: 281-933-7293
E-mail: MMUSTAFA@HVJ.COM

2. INVOICE TO: SAME
Company: SAME
Address: SAME
Contact: SAME
Phone: SAME
Fax: SAME
E-mail: SAME

3. PO #
3a. A&B Quote #
4. Turnaround Time (Business Days)
 1 Day* Other:
 2 Days*
 3 Days* *Surcharge applies
 7 Days - Standard

6. Project Name/Location: MARTIN LUTHER KING
7. Reporting Requirement:
 TRRP Limits only TRRP Rpt. Package See Attached Standard Level II PST MDL EDD
8. Sampler's Name & Company (PLEASE PRINT): Esgardo Eusebio HVJ
Sampler's Signature & Date: *Esgardo Eusebio*

LAB USE ONLY	9. Sample ID and Description	10. Sampling		11. Matrix										
		Date	Time 24hr	Comp	Grab	Water	Soil	Sludge	Oil	Drinking Water	Air	Other		
	31A EB-27	7-25-13	10:58	/	/	/	/	/	/	/	/	/	/	/

13. Containers*	14. Preservatives**	15. PH-Lab Only	16. PH-Lab Only	17. Analytical Methods	18. REMARKS	21. KNOWN HAZARDS/COMMENTS
				PTX + MTR		7/25/13 14:40

19. RELINQUISHED BY: *Esgardo Eusebio* DATE: 7-25-13 TIME: 14:38 RECEIVED BY: *John Kimball* DATE: 7/25/13 TIME: 14:40
 *Containers: VOA - 40 ml vial 4 oz/8 oz - glass wide mouth P/O - Plastic/other
 **Preservatives: C - Cool H - HCl N - HNO₃ S - H₂SO₄
 OH - NaOH T - Na₂S₂O₃ X - Other
 METHOD OF SHIPMENT: BILL OF LADING/TRACKING #
 Temperature: 13.6 °C
 Thermometer ID: 102003320
 Intact: Dr N Initials: *SEB*
 A&B cannot accept verbal changes Please FAX written changes to 713-453-6091
 *Samples will be disposed of after 30 days



Sample Condition Checklist

A&B JobID : 13071197	Date Received : 07/25/2013	Time Received : 2:40PM																										
Client Name : HVJ Associates																												
Temperature : 13.6°C	Sample pH : NA																											
Thermometer ID : 102002320	pH Paper ID : NA																											
Check Points																												
1.	Cooler seal present and signed.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																								
2.	Sample(s) in a cooler.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
3.	If yes, ice in cooler.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
4.	Sample(s) received with chain-of-custody.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
5.	C-O-C signed and dated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
6.	Sample(s) received with signed sample custody seal.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																								
7.	Sample containers arrived intact. (If no comment).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
8.	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Matrix</td> <td style="border: none;">Water</td> <td style="border: none;">Soil</td> <td style="border: none;">Liquid</td> <td style="border: none;">Sludge</td> <td style="border: none;">Solid</td> <td style="border: none;">Cassette</td> <td style="border: none;">Tube</td> <td style="border: none;">Bulk</td> <td style="border: none;">Badge</td> <td style="border: none;">Food</td> <td style="border: none;">Other</td> </tr> <tr> <td style="border: none;">:</td> <td style="border: none; text-align: center;"><input checked="" type="checkbox"/></td> <td style="border: none; text-align: center;"><input checked="" type="checkbox"/></td> <td style="border: none; text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>											
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
10.	Sample(s) were received with proper preservative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
11.	All samples were logged or labeled.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
12.	Sample ID labels match C-O-C ID's	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
13.	Bottle count on C-O-C matches bottles found.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
14.	Sample volume is sufficient for analyses requested.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
15.	Samples were received within the hold time.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
16.	VOA vials completely filled.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
17.	Sample accepted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
Comments : Include actions taken to resolve discrepancies/problem:																												

Received by : Dlopez

Check in by/date : Dlopez / 07/25/2013

APPENDIX D
WASTE DISPOSAL DOCUMENTATION



NON-HAZARDOUS WASTE MANIFEST

1253152

1. Generator's US EPA ID Number TXCES00		Manifest Document Number		2. Page 1 of 1	
3. Generator's Name and Mailing Address HVJ and Associates 6120 S. Dairy Ashford Houston TX 77072			5. Generating Location (if different) Along roadways at Telephone Rd and Dbde Rd / MLK Houston Texas		
4. Phone () 281-983-8829			6. Phone ()		
7. Transporter #1 Company Name USA ENVIRONMENTAL SERVICES		8. US EPA ID Number 87242		9. Transporter #1's Phone 713-425-6900	
10. Transporter #2 Company Name		11. US EPA ID Number		12. Transporter #2's Phone	
13. Designated T/S/D Facility Name and Site Address MC CARTY ROAD LF TX, LP #261A 11013 OLD BEAUMONT HWY HOUSTON, TX 77078		14. US EPA ID Number		15. Facility's Phone 713-671-1575	
16. Waste Shipping Name and Description		17. Allied Waste Approval # and Exp. Date		18. Containers	
a. CUTTING SOILS		5133132013 51131312012 Exp 4-25-14		19. Total Quantity	
TOEQ# CESQ3182				20. Unit Wt/Vol	
b.					
c.					
d.					
21. Additional Descriptions for Materials Listed Above		Drum sites: MLK site - 2 Drums Telephone Rd site - 1 Drum			
JOEW 2007-TD-H015					
22. Special Handling Instructions and Additional Information					
23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name		Signature		Month Day Year	
[Signature]		[Signature]		8/13/13	
24. Transporter #1: Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
L. S. E. MOVE HURCH		[Signature]		8/16/13	
25. Transporter #2: Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
[Signature]		McCarty Rd Landfill TDH Permit #261-B			
26. Discrepancy Indication Space					
AUG - 8 2013					
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)					
Printed/Typed Name		Signature		Month Day Year	
[Signature]		[Signature]		8/8/13	

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1