PHASE II
ENVIRONMENTAL SITE ASSESSMENT
COH RAW WATER LINE
CONDITION ASSESSMENT PROJECT
WBS NO. S-000901-0012-3
HOUSTON, HARRIS COUNTY, TEXAS

PREPARED FOR:
LOCKWOOD, ANDREWS & NEWNAM, INC.
2925 BRIARPARK DRIVE, SUITE 400
HOUSTON, TEXAS 77042

PREPARED BY:
HVJ ASSOCIATES, INC.
HOUSTON, TEXAS
MARCH 15, 2013

REPORT NO. HE1214761
KEY MAP 496 Y AND 536 C

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March 15, 2013

Mr. Harrison T. Steed, PE
Senior Project Engineer
Lockwood, Andrews & Newnam, Inc.
2925 Briarpark Drive, Suite 400
Houston, Texas 77042

Re: Phase II Environmental Site Assessment (ESA)
COH EWPP Raw Water Line Condition Assessment Project
Owner: City of Houston
HVJ Proposal No. HE1214761

Dear Mr. Steed:

Presented herein is our draft Phase II Environmental Site Assessment Report for the above referenced project. The study was performed in general accordance with our Proposal No. HE1214761 dated November 9, 2012 (revised January 3, 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

ZA/EH/NL:abm

Copies submitted: 2 draft

The following lists the pages which complete this report:	
● Main Text – 14 pages	● Appendix B – 139 pages
● Plates – 11 pages	● Appendix C – NA
● Appendix A – NA	

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EXECUTIVE SUMMARY

HVJ Associates, Inc. has completed a Phase II ESA for the construction of an approximately 6,500 linear feet of 60-inch water line crossing the Houston Ship Channel in the Galena Park area of Houston, Texas. The purpose of this study was to determine if soil and/or groundwater contamination from sites with recognized environmental conditions (RECs) might impact the design and construction of the proposed project. This study was performed in general accordance with our Proposal No. HE1214761 dated November 9, 2012 (revised January 3, 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 March 2013 are summarized below:

- Fourteen borings were installed using Geoprobe soil boring equipment at three locations with recognized environmental conditions (RECs) along the Subject Project Alignment. These borings were installed between the REC sites and the proposed construction area along the Subject Project Alignment.

- One soil sample from each boring was obtained for laboratory analysis of chemicals of concern (COCs). One groundwater sample was obtained from each REC location for laboratory analysis of COCs.

- The subsurface soils generally consist of (in general) red clay, sandy clay, clayey sand, and fine sand.

- Volatile and semi-volatile compounds above the analytical method reporting limit were found in several soil samples collected from borings along the Subject Project Alignment.

- Volatile and semi-volatile compounds above the analytical method reporting limit were found in one groundwater sample collected from a temporary monitoring well installed in boring EB4.

- Levels of metals were found above the analytical method reporting limit in soil samples from several borings 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, three potentially petroleum contaminated areas (PPCAs) were identified along the Subject Project Alignment. During construction, a decision regarding PPCA soil classification will be made after the analysis of stockpiled soil.

Based on the results of this study, 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

The project involves for the construction of an approximately 6,500 linear feet of 60-inch water line crossing the Houston Ship Channel in the Galena Park area of Houston, Texas. The objective of the investigation 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 utilities. Based on recommendations contained in our Phase I Environmental Site Assessment "COH Raw Water Line Condition Assessment Project WBS NO. S-000901-0012-3" dated December 4, 2012, we assessed sites with recognized environmental conditions (RECs) along the Subject Project Alignment with 14 borings at three REC locations. Work 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, type of concern, concern documentation and sample analysis are listed in Table 1.

Table 1
EWPP Raw Water Line Condition Assessment Project Environmental Issues

Name and Location of Concern	Chemicals of Concern	Concern Documentation/Comment
Gulf Coast Waste Disposal Authority 1002 N. Richey	VOCs, SVOCs, metals and solvents in site groundwater and soil.	The facility is listed as a small quantity generator of hazardous waste with violations and both written and verbal enforcement actions. There is some question regarding the clarifier area adjoining the Subject Project Alignment to the west. This area may not have been remediated prior to clarifier construction and some remnant paper plant waste may be present in the site area soil and/or groundwater
Kinder Morgan Terminals (aka GATX Terminals, KM Liquids, etc.) 906 Clinton Drive	Various chemicals/materials including naphtha, gasoline, diesel fuel, slop oil, alkylate, lube oil, sodium sulfide, waste oil, ethylene glycol, jet fuel, MTBE, alkylaromatic, xylene, benzene, univolt, cresols and caustic soda in site soil and groundwater.	This facility is listed in the IHW Corrective Active database with various forms of contamination including VOCs and lead contamination in site groundwater but with no remediation reported. The activity status is listed as "the incident is being studied to determine the extent, composition and/or other properties and circumstances of the contamination." This facility is also listed with a civil court case record for benzene pollution and a consent instrument with penalty for unspecified violation(s). Several releases have been identified at this facility consisting of a small amount of hydrosulfide and 210 gallons of toluene solvent spilled on the ground from a tanker overfill. Groundwater engineering controls have been established for this facility. Materials spilled at this facility include (but are not limited to) naphtha, gasoline, diesel fuel, slop oil, alkylate, lube oil, sodium sulfide, waste oil, ethylene glycol, jet fuel, MTBE, alkylaromatic, xylene, benzene, univolt, cresols and caustic soda. These materials were reported to have impacted site soil, water and the ship channel. An interviewee indicated that a former Texaco refinery was located west of the Subject Project Alignment between manholes MH-17 and MH-18. Possible groundwater and/or soil contamination at this site may be a concern.
U.S. Oil Recovery	VOC, SVOC and metals	This non-operational grease and grit trap waste processing,

Table 1 EWPP Raw Water Line Condition Assessment Project Environmental Issues		
Name and Location of Concern	**Chemicals of Concern**	**Concern Documentation/Comment**
(aka North American Hide Exporters) 400 N. Richey		former hide exporter, former landfill and former chemical company facility which was first listed in CERCLIS during 2010 for a "removal emergency." This site is listed as a large quantity generator of ignitable waste, lead and benzene with numerous violations and enforcement actions. The most recent enforcement action on May 18, 2012 was a "final civil judicial action for imminent and substantial endangerment." This site is listed as a permitted landfill and is proposed to be included on the National Priorities List in the Federal Register as a possible Superfund site.

The objective of the investigation is to determine the nature of possible environmental contamination associated with the industrial sites on or adjoining the Subject Project Alignment and their impact to the design, construction and operation of the proposed facilities. It has been determined that impacts (if any) to the project can be assessed with 15 borings. Groundwater was encountered in sufficient quantity for sampling at one 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. Drilled 14 borings to depths ranging from 8 to 24 feet below ground surface (bgs) to auger refusal or the top of the water table. We encountered no auger refusal. All borings were installed using Geoprobe equipment.

3. Performed soil sample field screening with an organic vapor meter (OVM) and obtained selected samples for subsequent laboratory analyses.

4. Collected groundwater samples at the four locations of concern for analysis.

5. Prepared boring logs (copies of these logs are provided in Appendix A).

6. Submitted selected samples to A&B Laboratory for the appropriate analysis depending on the location. See Table 1 above for boring address and number, type of concern, concern documentation and analysis conducted (laboratory data sheets, QA/QC documentation and chain-of-custody form are provided in Appendix B).

7. 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 C of our final report.

8. Prepared this report summarizing our findings with conclusions and recommendations.

1.3 Basis of Report

Although this study has been a reasonably thorough attempt to identify soil and groundwater contamination at the proposed locations, there is a possibility that contamination may have escaped

detection due to the limitations of this study, 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

An HVJ Associates Phase I ESA "COH Raw Water Line Condition Assessment Project WBS NO. S-000901-0012-3" dated December 4, 2012, identified several 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. Sanborn fire insurance maps were available and reviewed for the Subject Project Alignment and adjoining properties.
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.

The project involves the assessment of an area designated for the proposed construction of 6,500 linear feet of 60-inch water line crossing the Houston Ship Channel in the Galena Park area of Houston, Texas. The Phase I ESA included:

- A database search of environmental records for the Subject Project Alignment and surrounding area.
- A review of historical records to assess past uses of Subject Project Alignment and adjoining property.

- An on-site reconnaissance of Subject Project Alignment during which Subject Project Alignment was visually inspected for the presence and management of hazardous substances and petroleum products and any signs of environmental releases or impacts.

- Interviews to obtain information relevant to Subject Project Alignment and adjoining properties.

- Identification of the current uses and status of properties adjoining the Subject Project Alignment in order to evaluate their potential as sources of contamination.

The Subject Project Alignment area is located in a primarily commercial area. The available information from the Phase I ESA for this project is summarized below:

1. A review of historical data and early topographic maps show that the Subject Project Alignment area was developed prior to 1947.

2. According to the ASTM Standard E 1527-05; regulatory data indicate 294 locatable mapped environmental database entries at multiple sites within the Subject Project Alignment area.

3. After a site reconnaissance and our review of historical data, maps and the Texas Commission on Environmental Quality (TCEQ) online records, we found that several sites adjoining the Subject Project Alignment may have recognized environmental conditions (RECs) that could pose a concern to project construction along the Subject Project Alignment.

Three sites with RECs were identified in connection with the Subject Project Alignment while performing this Phase I ESA. These are the Kinder Morgan Terminal (this site is listed with various other names including GATX Terminal, KM Liquids, Enjet, Magellan Pipeline etc.) facility at 405 and 906 Clinton Drive near the north end of the Subject Project Alignment, the Gulf Coast Waste Disposal Authority facility at 1002 N. Richey and the U.S. Oil Recovery (also known as the North American Hide Exporters) facility at 200 and 400 N. Richey Street near the south end of the Subject Project Alignment. Since HVJ Associates was of the opinion that there is a potential for environmental contamination to impact the Subject Project Alignment from these REC sites, we recommended further environmental study of these locations in the form of this Phase II ESA if the proposed construction activities are deeper than five feet below ground surface.

Numerous pipelines extend through the Subject Project Alignment area. One of these pipelines bifurcates, crosses the south end of the Subject Project Alignment and may connect to other north to south trending pipelines west of the Subject Project Alignment. East/west trending pipelines belonging to Phillips 66 Pipeline LLC, Explorer Pipeline Company and Kinder Morgan Texas Pipeline LLC along Clinton Drive cross the north end of the Subject Project Alignment where it crosses Clinton Drive. We recommend further environmental investigation at these two locations if the proposed project construction activity involves excavation deeper than five feet below the existing grade.

2.2 Planned Construction Description

The project involves replacement the construction of an approximately 6,500 linear feet of 60-inch water line crossing the Houston Ship Channel in the Galena Park area of Houston, Texas.

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, 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 Alignments area.

Prior to mobilization, a site-specific health and safety plan was prepared in accordance with 29 CFR 1910.120. Prior to drilling and sample screening, all sampling equipment was thoroughly cleaned to prevent cross contamination. All environmental soil borings 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 LAN.

The locations of the soil borings/probes are shown on the Plan of Borings (Plate 2) and described below. The soil borings were placed in the best practicable locations, considering the location of utilities and other site-specific conditions. Soil samples obtained were continuously examined for impact using visual and olfactory methods. Samples were also screened for organic vapors with a properly calibrated Organic Vapor Meter (OVM). Descriptions of the materials encountered are presented on the boring logs (Appendix A).

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 four 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;
- Total Recoverable Metals using U.S. EPA Method 6010C;
- Total Metals – Mercury using U.S. EPA Method 8260C;
- Semi-Volatile Organic Compounds using U.S. EPA Method 8270D; and
- Volatile Organic Compounds U.S. EPA Method 8260C.

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

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 will be provided in Appendix C of our final report.

4. ASSESSMENT RESULTS

4.1 Site Specific Soil Conditions

The subsurface soils generally consist of (in general) red clay, sandy clay, clayey sand 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):

Table 2A BORINGS EB1 – EB7
Soil Analytical Results and TCEQ PCLs
(results in mg/kg for soil)

Parameter	BORING NUMBER AND DEPTH OF SAMPLE							TCEQ PCL Soil[1]	
	EB1	**EB2**	**EB3**	**EB4**	**EB5**	**EB6**	**EB7**	**TOT COMB**	**GW ING**
TOTAL RECOVERABLE METALS BY EPA SW-846 6010C									
Arsenic	**8.1**	**13.1**	1.6	BRL	BRL	1.0	BRL	240	5.0
Barium	97	128	142	118	129	40	64	8100	440
Chromium	11.1	9.4	7.9	8.1	9.6	8.6	5.8	33000	2400
Lead	**3.23**	**6.4**	**12.0**	2.7	2.7	**7.8**	**11.2**	500	3.0
Mercury	**0.302**	**0.053**	**0.472**	BRL	BRL	BRL	**0.22**	3.6	0.0078
VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS									
MEK	BRL	0.0058	BRL	BRL	BRL	BRL	0.008	40000	29
Naphthalene	BRL	BRL	BRL	0.043	BRL	BRL	BRL	220	31
TOTAL PETROLEUM HYDROCARBONS BY TX 1005									
TPH (C6-C35)	27.5	34.4	67.8	24.2	BRL	181.9	621.1	NL (see Note 1)	NL
TPH (C6-C12)	27.5	34.4	36.8	**24.2**	BRL	32.3	52.1	1600	65

Table 2B BORINGS EB8 – EB14 Soil Analytical Results and TCEQ PCLs (results in mg/kg for soil)									
Parameter	BORING NUMBER AND DEPTH OF SAMPLE							TCEQ PCL Soil[1]	
	EB8	**EB9**	EB10	EB11	EB12	EB13	EB14	TOT COMB	GW ING
TOTAL RECOVERABLE METALS BY EPA SW-846 6010C									
Arsenic	1.1	BRL	0.5	1.2	2.3	1.4	1.2	240	5.0
Barium	67	27	35	59.9	110	124	99	8100	440
Chromium	3.3	4.9	3.5	6.1	11.3	5.5	7.1	33000	2400
Lead	**3.9**	**3.9**	**7.4**	**5.0**	**8.2**	**6.2**	**5.0**	500	3.0
VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS									
MEK	BRL	BRL	0.005	BRL	BRL	BRL	BRL	40000	29
TOTAL PETROLEUM HYDROCARBONS BY TX 1005									
TPH (C6-C35)	24	BRL	543.3	BRL	BRL	BRL	BRL	NL (see Note 1)	NL
TPH (C6-C12)	24	BRL	31.3	BRL	BRL	BRL	BRL	1600	65

Table Notes:

1) Levels from TRRP Table 1 Tier 1 Soil Protective Concentration Limits (PCLs) ($^{Tot}Soil_{Comb}$ and $^{GW}Soil_{Ing}$ 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.

Table 3 Texas-Specific Soil Background Concentrations milligrams per kilogram (mg/kg)[1]	
Metal	**Median Background Concentration (mg/kg)**
Arsenic	5.9
Barium	300
Total Chromium	30
Cobalt	7
Lead	15
Selenium	0.3

[1]Source: 30 TAC §350.51(m) "Background Geochemistry of Some Rocks, Soils, Plants, and Vegetables in the Conterminous United States", by Jon J. Connor, Hansford T. Shacklette, *et al.*, Geological Survey Professional Paper 574-F, US Geological Survey.

Metals analysis of samples collected from all borings indicate that some metals are above the method reporting limit in these samples. With the exception of samples collected from EB4 and EB5, the analysis of samples collected that metals levels in these 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. No lead results are above the Texas background concentration for lead (see Table 3 for background concentration levels). All lead samples are above the $^{GW}Soil_{Ing}$ PCL. Mercury in the soil sample collected from borings EB1, EB2, EB3 and EB7 are above the $^{GW}Soil_{Ing}$ PCL. This result defines PPCAs from the beginning of the project at EB1 to EB5, from EB6 to EB9 and from EB10 to EB11.

For groundwater, results show that the level of benzene, chlorobenzene, acenaphthene and bis(2-ethylhexyl) phthalate are at or above the method reporting limit and above the TRRP Tier 1 Table 3 PCL for the $^{Gw}GW_{ing}$ exposure pathway.

Table 3
Groundwater Analytical Results and TCEQ PCLs
(results in mg/L for water)

Parameter	BORING NUMBER AND DEPTH OF SAMPLE			**TCEQ PCL Groundwater[1]**
	EB4	**EB11**	**EB14**	**GW ING**
TOTAL RECOVERABLE METALS BY EPA SW-846 6010C				
Arsenic	BRL	BRL	BRL	0.01
Barium	0.944	1.891	0.256	2.0
Chromium	BRL	BRL	0.012	0.1
Lead	**0.021**	**0.016**	**0.019**	0.015
VOLATILE ORGANIC COMPOUNDS BY EPA SW-846 8260C				
Benzene	**0.012**	BRL	BRL	0.005
Chlorobenzene	**0.165**	BRL	BRL	0.1
Acenaphthene	0.026	BRL	BRL	1.5
Bis(2-ethylhexyl) phthalate	**0.23**	BRL	BRL	0.006
Fluorene	0.14	BRL	BRL	0.98
Naphthalene	0.184	BRL	BRL	0.49
Phenanthrene	0.014	BRL	BRL	0.73
TOTAL PETROLEUM HYDROCARBONS BY TX 1005				
TPH (C6-C35)	**5.67**	BRL	BRL	0.98
TPH (C6-C12)	**2.64**	BRL	BRL	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 City of Houston criteria, three PPCAs were identified along the project alignment. 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 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) red clay, sandy clay, clayey sand and fine sand. We conclude that petroleum hydrocarbons and other compounds are present in soil samples collected from borings EB1, EB2, EB3, EB4, EB6, EB7, EB8 and EB10. We conclude that petroleum hydrocarbons and other compounds are present in the groundwater sample collected from the boring EB4 location. We anticipate that groundwater will be present at the boring locations above 24 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.

Metals analysis of samples collected from all borings indicate that some metals are above the method reporting limit in these samples. With the exception of samples collected from EB4 and EB5, the analysis of samples collected that metals levels in these 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. No lead results are above the Texas background concentration for lead (see Table 3 for background concentration levels). All lead samples are above the $^{GW}Soil_{Ing}$ PCL. Mercury in the soil sample collected from borings EB1, EB2, EB3 and EB7 are above the $^{GW}Soil_{Ing}$ PCL.

This result defines PPCAs from the beginning of the project at EB1 to EB5, from EB6 to EB9 and from EB10 to EB11. 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 metals, TPH, and volatile and semi-volatile compounds are relatively low.

We recommend petroleum resistant piping and gaskets and other petroleum contaminated design considerations for the PPCA locations. We recommend appropriate petroleum 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 and LAN. 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 and/or LAN, 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 COH and/or LAN reliance, and subject to the same contractual, technological, and other limitations to which COH and LAN 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 site. 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 former service station locations 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. Changes in regulations, rules, guidelines, interpretations, and/or enforcement policies may occur at any time and such changes could affect the extent of remediation required for the adjacent historical service station locations. 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.

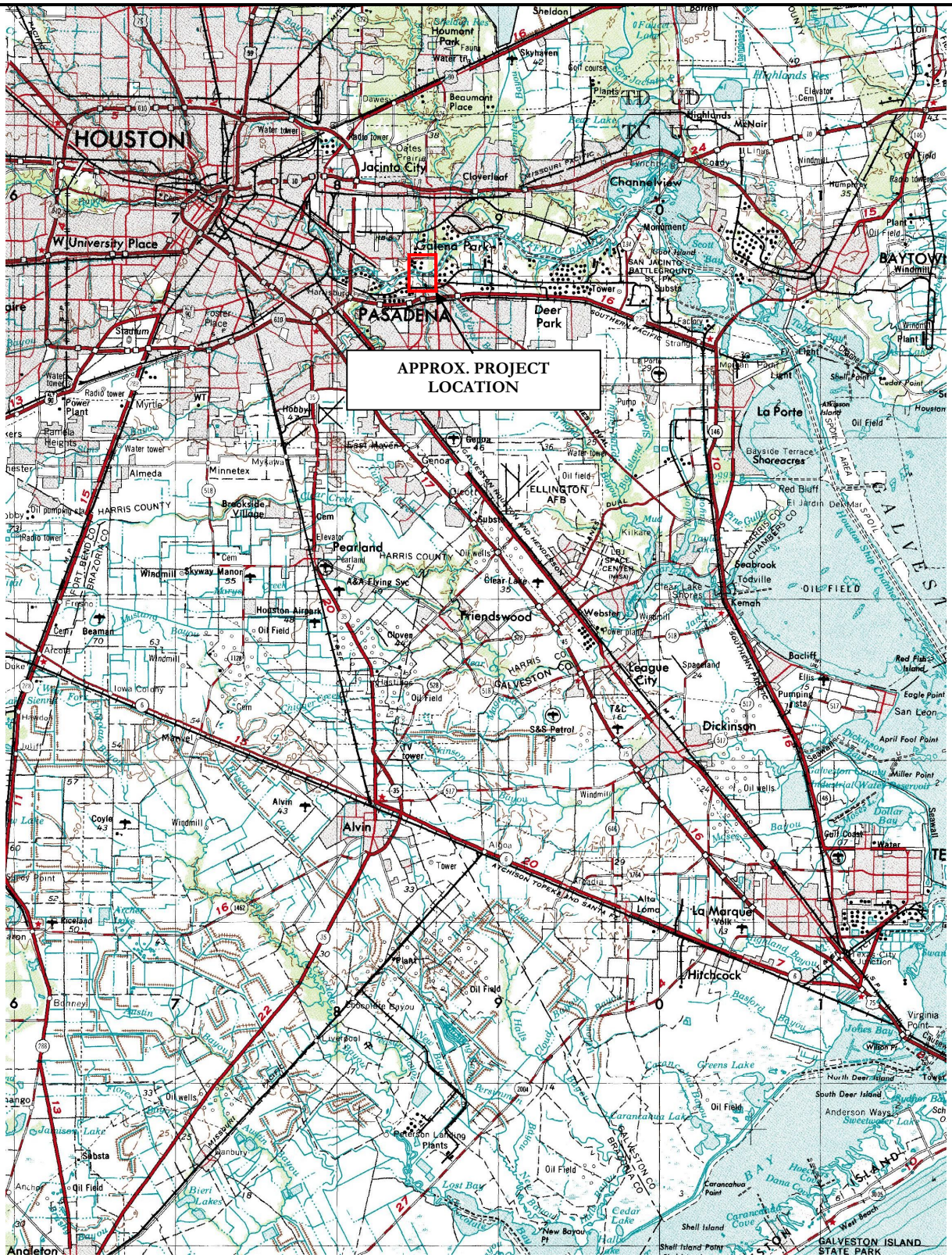
3. ASTM Standard Practice E-1903 - 97 (2002) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process."

4. City of Houston (COH) Design Manual "Geotechnical and Environmental Requirements."

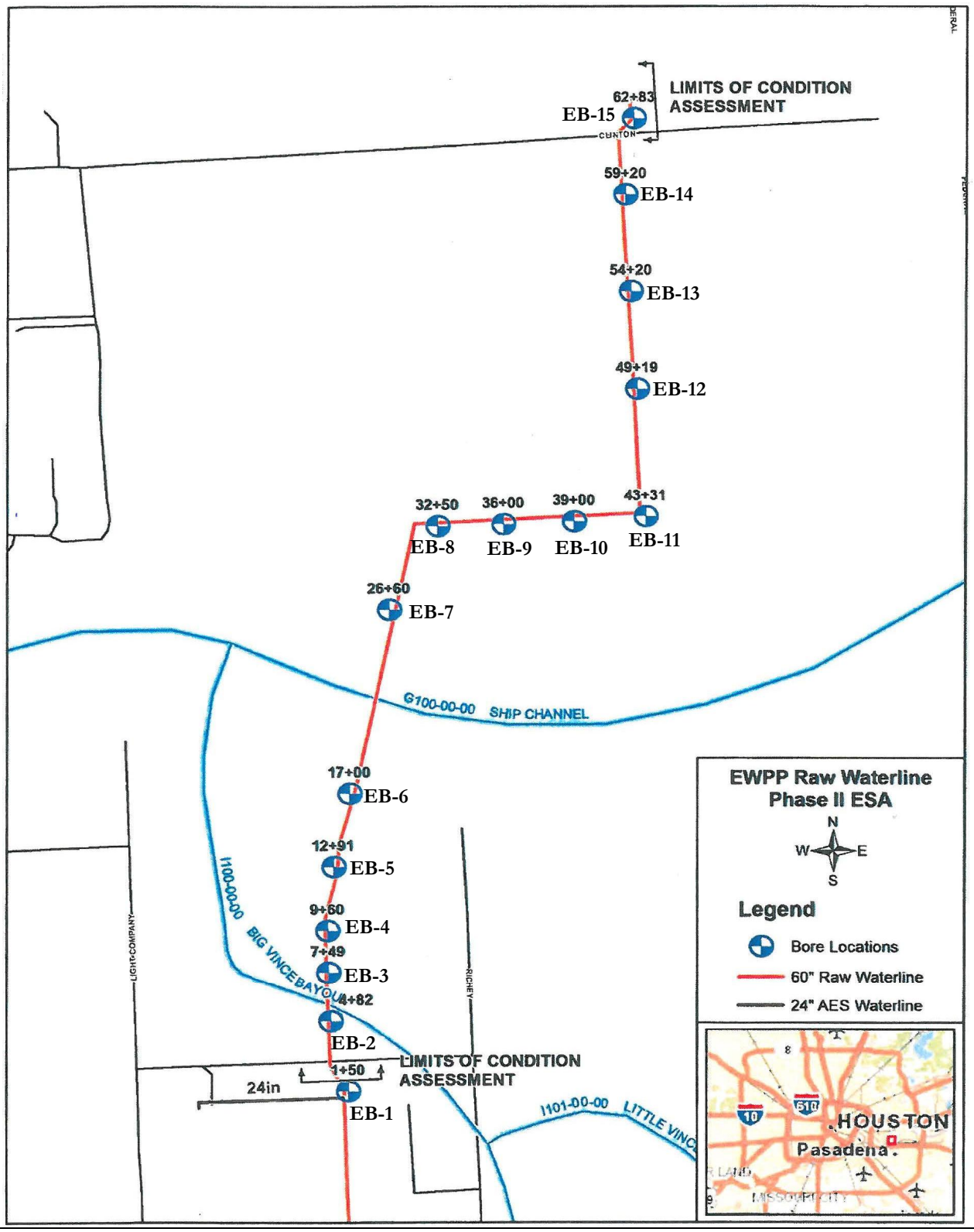
5. TCEQ TRRP Residential Soil and Groundwater Protective Concentration Limits (PCLs) Tables (June 29, 2012).

6. HVJ Associates Phase I Environmental Site Assessment (ESA) COH EWPP Raw Water Line Condition Assessment Project (HVJ Project No. HE1214760), December 4, 2012.

PLATES

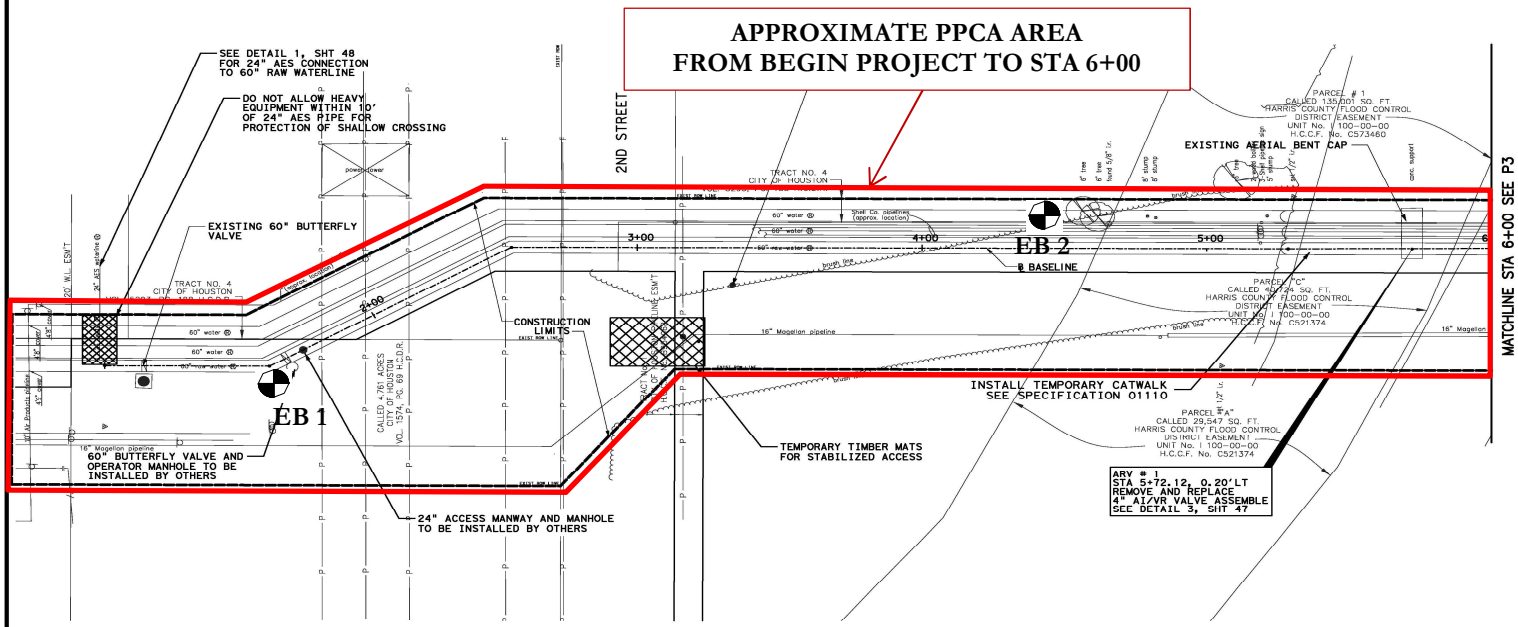


HVJ ASSOCIATES		Drawn:	EH	**Plate 1** **EWWP 60-inch Raw Water Line Assessment Project** **Houston Ship Channel to the EWPP** **WBS No. S-000901-0012-3** **Houston, Harris County, Texas**
		Checked:	EH	
		Date:	March 2013	
Project No.	HE1214761	Scale	NTS	



Note: EB-15 was omitted from field activities due to existing underground utilities.

HVJ ASSOCIATES		Drawn:	NL	Plate 2 Approx. Borings Location Map EWPP 60-inch Raw Water Line Assessment Project Houston Ship Channel to the EWPP WBS No. S-000901-0012-3 HOUSTON, HARRIS COUNTY, TEXAS
		Checked:	EH	
		Date:	March 2013	
Report No.	HE1214761	Scale:	NTS	



(IN FEET)
1 inch = 20 ft.

UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567/800-245-4545 AND LONE STAR ONE CALL AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

SWTP Surface Water Transmission Program

PRIVATE UTILITY LINES SHOWN

Date:
CENTERPOINT ENERGY/UNDERGROUND ELECTRICAL FACILITIES VERIFICATION ONLY
(THE SIGNATURE ONLY VERIFIES SHOWING UNDERGROUND FACILITIES – NOT TO BE USED FOR CONFLICT VERIFICATION.) SIGNATURE VALID FOR SIX MONTHS.

Date:
CENTERPOINT ENERGY/NATURAL GAS FACILITIES VERIFICATION ONLY
(THE SIGNATURE ONLY VERIFIES THAT GAS VALVES SHOWN CPE NATURAL GAS LINES CORRECTLY – NOT TO BE USED FOR CONFLICT VERIFICATION.) (GAS SERVICE LINES ARE NOT SHOWN.) SIGNATURE VALID FOR SIX MONTHS.

Date:
Approved for AT&T Texas/SWBT underground conduit facilities only.
SIGNATURE VALID FOR ONE YEAR

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
2925 Briarpark Drive Houston, TX 77042

STATE OF TEXAS
JAMES T. OTTESEN
109405
LICENSED PROFESSIONAL ENGINEER

Lockwood, Andrews & Newnam, Inc. Firm No. 2614

SURVEYED BY:
KUO & ASSOCIATES
FB NO. P-5528

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

60 INCH RAW WATER CONDITION ASSESSMENT SUPPORT PACKAGE
PLAN VIEW
RAW WATER ASSESSMENT
BEGIN PROJECT TO STA 6+00
P1

WBS NO.
S-000902-0012-3

DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'

CITY OF HOUSTON PM
JONATHAN PREVOT, P.E.

SHEET NO. 11 OF 59

No.	DATE	REVISIONS	APP

LEGEND:

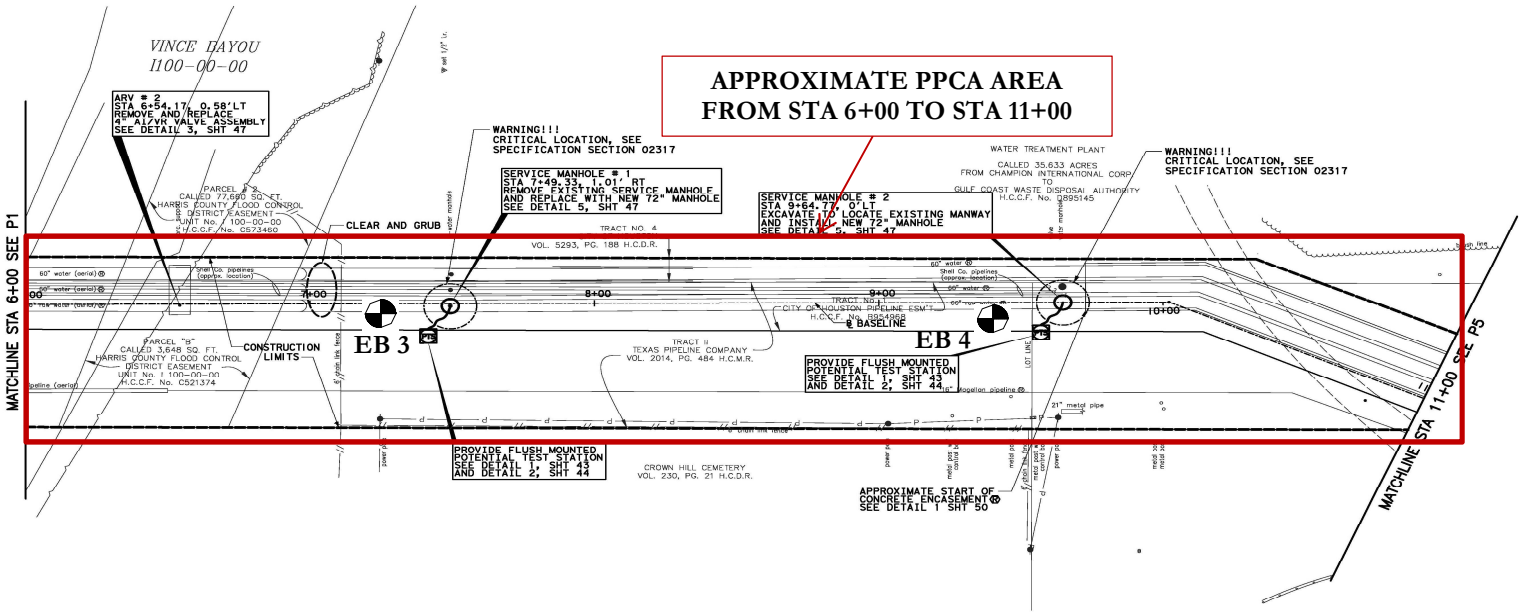
⊕ **APPROXIMATE BORING LOCATIONS**

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3a



N

0 20 40
(IN FEET)
1 inch = 20 ft.

No.	DATE	REVISIONS	APP

UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS 811 PLUS AT 713-223-4567 OR 800-344-8377 OR USE THE ONE CALL AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

SWTP
Surface Water Transmission Program

PRIVATE UTILITY LINES SHOWN

Date:
CENTERPOINT ENERGY/UNDERGROUND ELECTRICAL FACILITIES VERIFICATION ONLY
(THE SIGNATURE VARIFIES EXISTING UNDERGROUND FACILITIES – NOT TO BE USED FOR CONFLICT VERIFICATION.) SIGNATURE VALID FOR SIX MONTHS.

Date:
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FACILITIES VERIFICATION ONLY
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Date:
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A LEO A DALY COMPANY
2925 Briarpark Drive Houston, TX 77042

STATE OF TEXAS
HARRISON T. STEED
109405
LICENSED PROFESSIONAL ENGINEER

Lockwood, Andrews & Newnam, Inc.
Firm No. 3614

SURVEYED BY:
KUO & ASSOCIATES
FB NO. P-5528

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

60 INCH RAW WATER CONDITION ASSESSMENT SUPPORT PACKAGE
PLAN VIEW
RAW WATER ASSESSMENT
STA 6+00 TO STA 11+00
P3

WBS NO.
S-000902-0012-3

DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'

CITY OF HOUSTON PM
JONATHAN PREVOT, P.E.

SHEET NO. 13 OF 59

LEGEND:

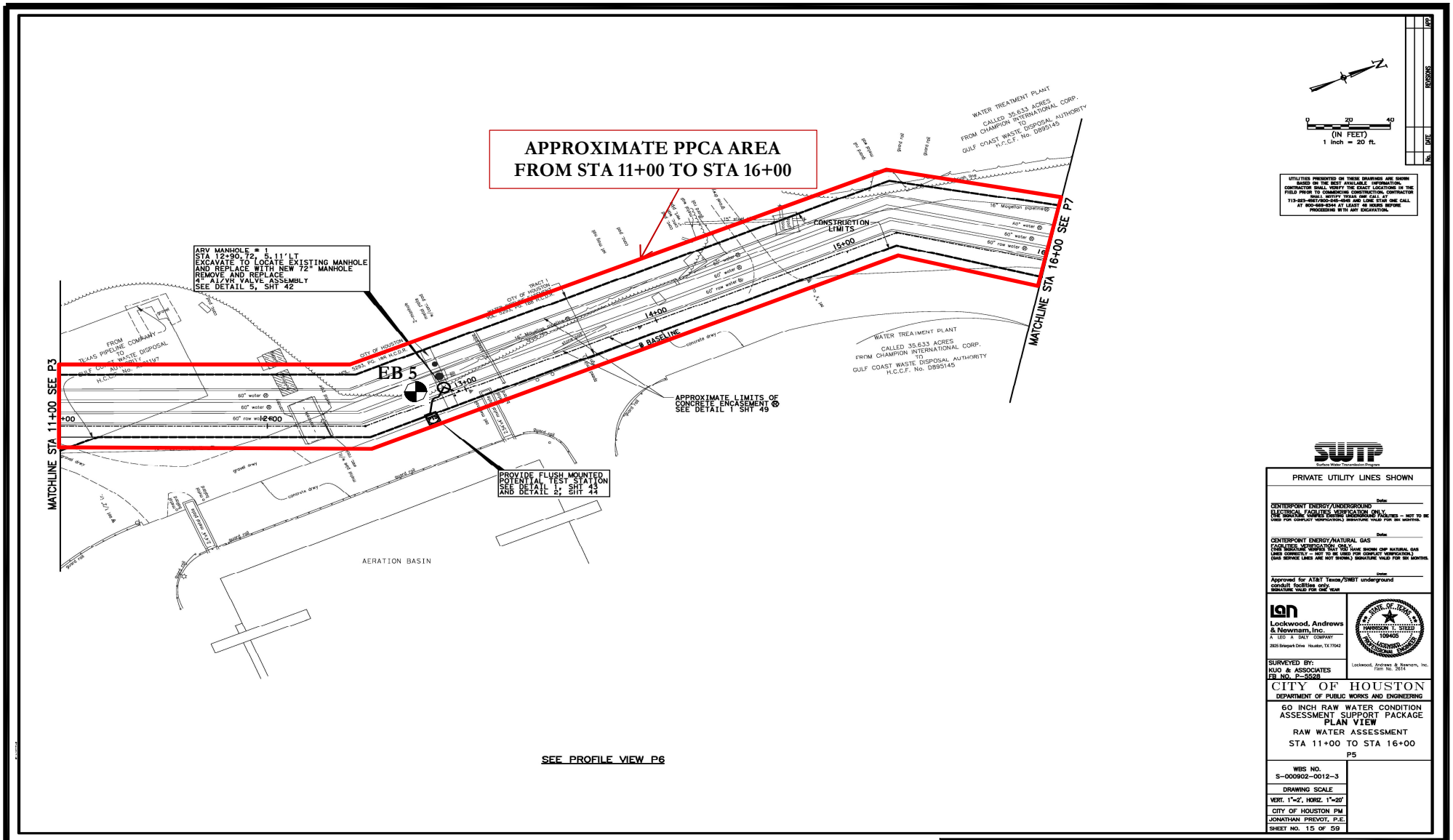
APPROXIMATE BORING LOCATIONS

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3b



LEGEND:

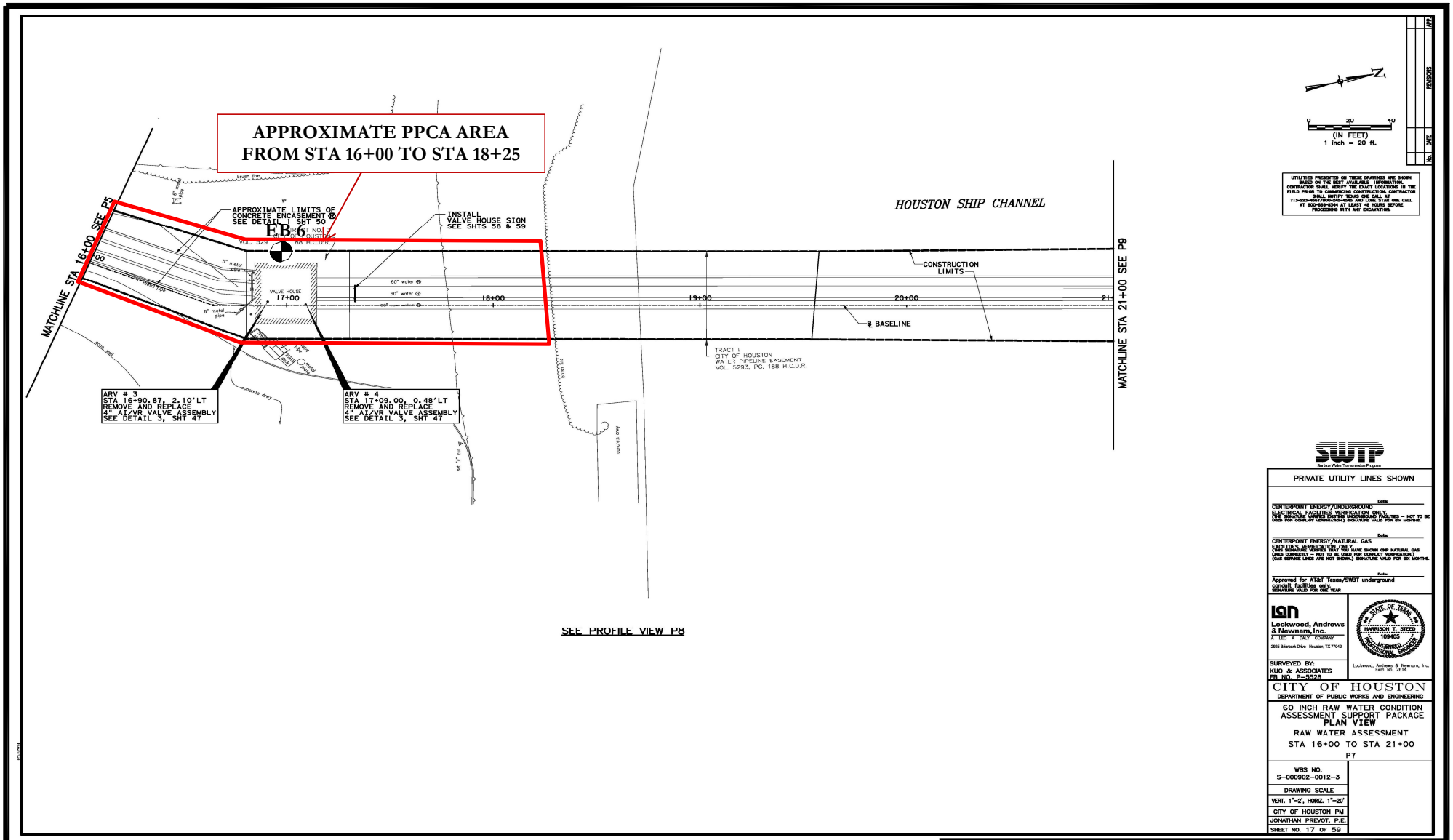
⊕ **APPROXIMATE BORING LOCATION**

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3c



LEGEND:

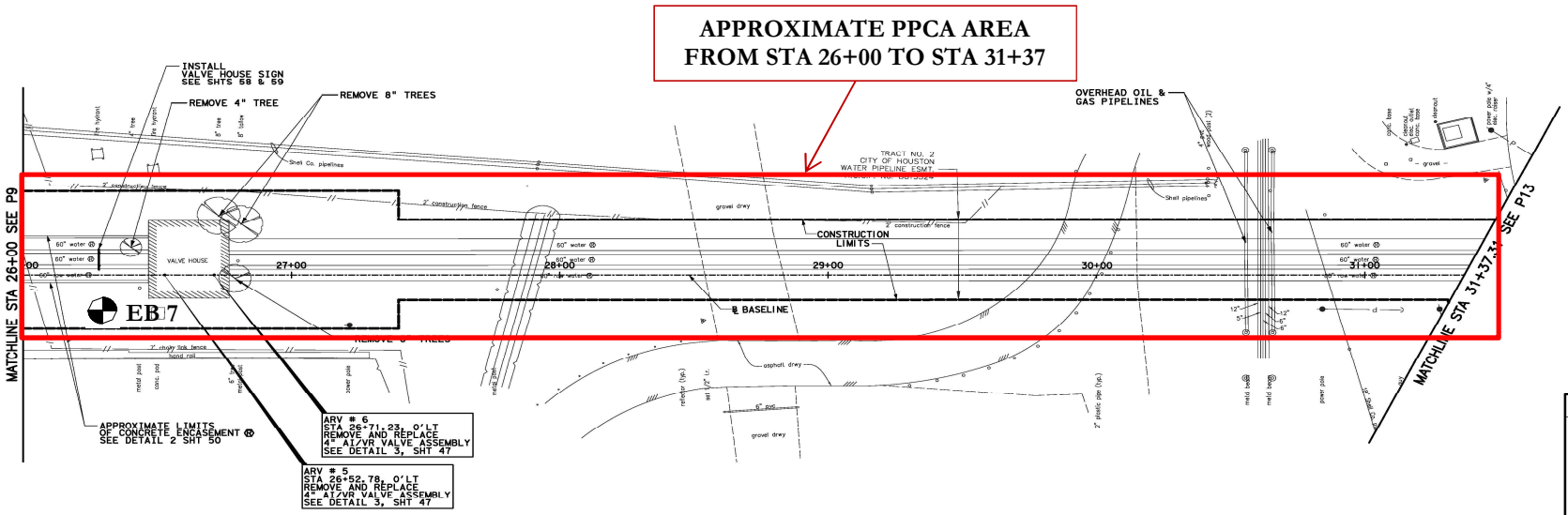
⊕ **APPROXIMATE BORING LOCATION**

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3d



LEGEND:

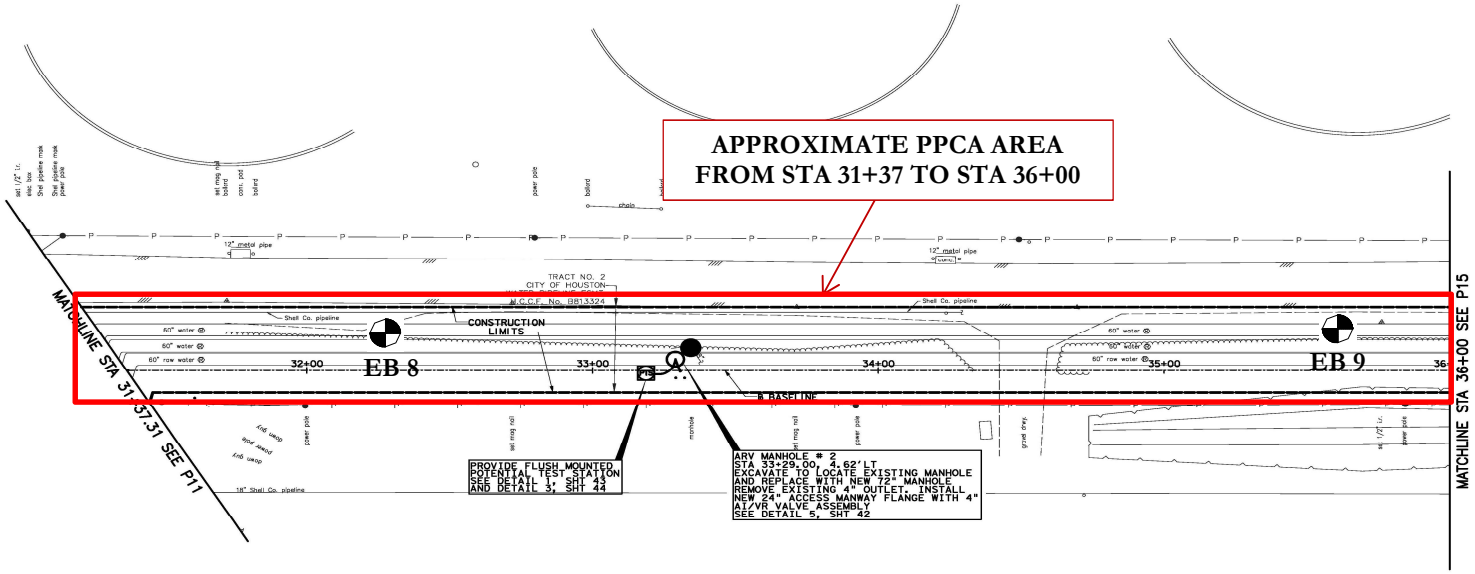
APPROXIMATE BORING LOCATION

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3e



SEE PROFILE VIEW P14

N

0 20 40
(IN FEET)
1 inch = 20 ft.

No.	DATE	REVISIONS	APP

UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE-CALL AT 713-223-4087 OR NATIONWIDE ONE-CALL AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

SWTP
Surface Water Transmission Program

PRIVATE UTILITY LINES SHOWN

Date:
CENTERPOINT ENERGY/UNDERGROUND ELECTRICAL FACILITIES VERIFICATION ONLY
THE SIGNATURE OWNER ENTERS UNDERGROUND FACILITIES – NOT TO BE USED FOR CONFLICT VERIFICATION.) SIGNATURE VALID FOR SIX MONTHS.

Date:
CENTERPOINT ENERGY/NATURAL GAS FACILITIES VERIFICATION ONLY
(THIS SIGNATURE VERIFIES THAT YOU HAVE SHOWN CNP NATURAL GAS LINES SUBMITTED. – NOT TO BE USED FOR CONFLICT VERIFICATION.) (GAS SERVICE LINES ARE NOT SHOWN.) SIGNATURE VALID FOR SIX MONTHS.

Date:
Approved for AT&T Texas/SWBT underground conduit facilities only
SIGNATURE VALID FOR ONE YEAR

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Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
2925 Briarpark Drive Houston, TX 77042

STATE OF TEXAS
HARRISON T. STEED
109405
LICENSED PROFESSIONAL ENGINEER

SURVEYED BY:
KUO & ASSOCIATES
FB NO. P-5528

Lockwood, Andrews & Newnam, Inc.
Firm No. 3614

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

60 INCH RAW WATER CONDITION ASSESSMENT SUPPORT PACKAGE
PLAN VIEW
RAW WATER ASSESSMENT
STA 31+37.31 TO STA 36+00
P13

WBS NO.
S-000902-0012-3

DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'

CITY OF HOUSTON PM
JONATHAN PREVOT, P.E.

SHEET NO. 23 OF 59

LEGEND:

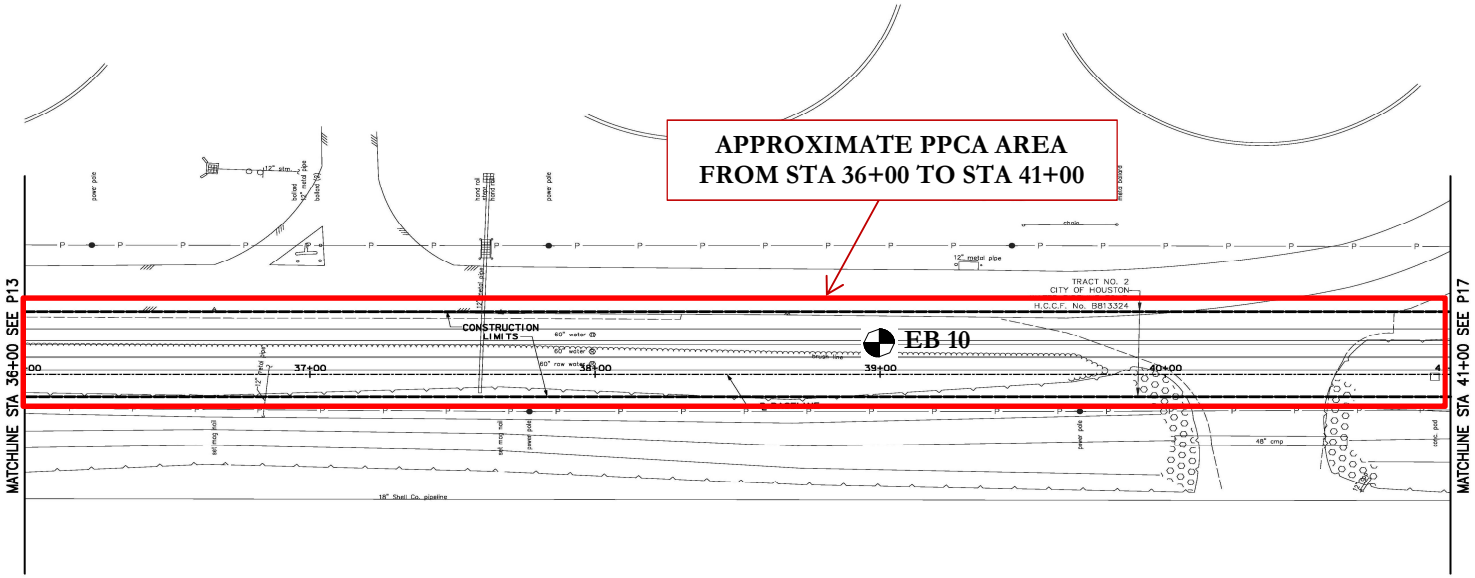
APPROXIMATE BORING LOCATIONS

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3f



SEE PROFILE VIEW P16

N

0 20 40
(IN FEET)
1 inch = 20 ft.

No.	DATE	REVISIONS	APP

UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567/800-245-5545 AND LINE STAR ONE CALL AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

SWTP
Surface Water Transmission Program

PRIVATE UTILITY LINES SHOWN

Date:
CENTERPOINT ENERGY/UNDERGROUND ELECTRICAL FACILITIES VERIFICATION ONLY
(THE SIGNATURE VERIFIES EXISTING UNDERGROUND FACILITIES – NOT TO BE USED FOR CONFLICT VERIFICATION.) SIGNATURE VALID FOR SIX MONTHS.

Date:
CENTERPOINT ENERGY/NATURAL GAS FACILITIES VERIFICATION ONLY
(THE SIGNATURE VERIFIES THAT YOU HAVE SHOWN CNP NATURAL GAS LINES CORRECTLY – NOT TO BE USED FOR CONFLICT VERIFICATION.) (GAS SERVICE LINES ARE NOT SHOWN.) SIGNATURE VALID FOR SIX MONTHS.

Owner:
Approved for AT&T Texas/SWBT underground conduit facilities only.
SIGNATURE VALID FOR ONE YEAR

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STATE OF TEXAS
HARRISON L. STEED
109405
PROFESSIONAL ENGINEER

Lockwood, Andrews & Newnam, Inc.
Firm No. 3016

SURVEYED BY:
KUO & ASSOCIATES
FB NO. P-5528

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

60 INCH RAW WATER CONDITION ASSESSMENT SUPPORT PACKAGE
PLAN VIEW
RAW WATER ASSESSMENT
STA 36+00 TO STA 41+00
P15

WBS NO.
S-000902-0012-3

DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'

CITY OF HOUSTON PM
JONATHAN PREVOT, P.E.

SHEET NO. 25 OF 59

LEGEND:

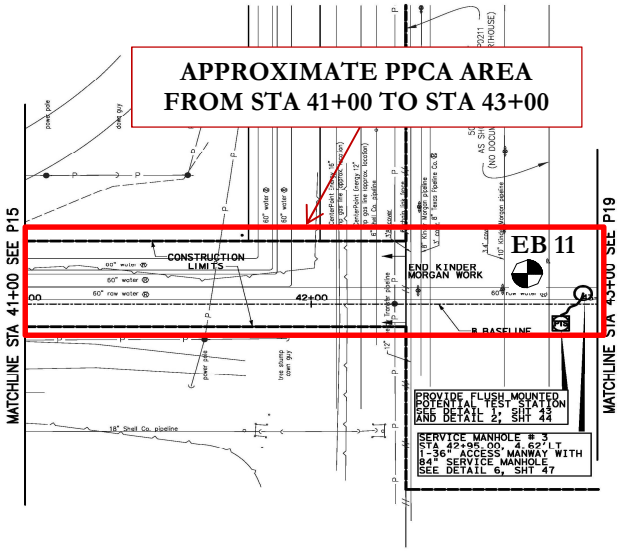
APPROXIMATE BORING LOCATION

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3g



SEE PROFILE VIEW P18

N

(IN FEET)
1 inch = 20 ft.

No.	DATE	REVISIONS	APP

UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4087/800-245-4545 AND LONE STAR ONE CALL AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

SWTP
Surface Water Transmission Program

PRIVATE UTILITY LINES SHOWN

Date:
CENTERPOINT ENERGY/UNDERGROUND ELECTRICAL FACILITIES VERIFICATION ONLY.
THIS SIGNATURE CERTIFIES CENTERPOINT UNDERGROUND FACILITIES – NOT TO BE USED FOR CONFLICT VERIFICATION. SIGNATURE VALID FOR SIX MONTHS.

Date:
CENTERPOINT ENERGY/NATURAL GAS
THIS SIGNATURE CERTIFIES THAT YOU HAVE SHOWN CNP NATURAL GAS LINES BORDERING YOUR SITE. THAT YOU HAVE SHOWN CNP NATURAL GAS LINES CORRECTLY – NOT TO BE USED FOR CONFLICT VERIFICATION. (GAS SERVICE LINES ARE NOT SHOWN.) SIGNATURE VALID FOR SIX MONTHS.

Date:
Approved for AT&T Texas/SWBT underground conduit facilities only.
SIGNATURE VALID FOR ONE YEAR

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Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
2925 Briarpark Drive Houston, TX 77042

STATE OF TEXAS
HARRISON T. STEED
108405
LICENSED PROFESSIONAL ENGINEER

Lockwood, Andrews & Newnam, Inc.
Firm No. 2616

SURVEYED BY:
KUO & ASSOCIATES
FB NO. P-2528

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

60 INCH RAW WATER CONDITION ASSESSMENT SUPPORT PACKAGE
PLAN VIEW
RAW WATER ASSESSMENT
STA 41+00 TO STA 43+00
P17

WBS NO.
S-000902-0012-3

DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'

CITY OF HOUSTON PM
JONATHAN PREVOT, P.E.

SHEET NO. 27 OF 59

LEGEND:

APPROXIMATE BORING LOCATION

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

DATE: 3/28/2013	APPROVED BY: MM	PREPARED BY: NL

APPROXIMATE PPCA AREA
EEPP 60-inch RAW WATER LINE ASSESSMENT PROJECT

PROJECT NO.: HE1214761	DRAWING NO.: PLATE 3h

APPENDIX A

BORING LOGS ARE IN PROGRESS

AND WILL BE SUBMITTED IN THE FINAL REPORT

APPENDIX B

ANALYTICAL LAB REPORT/CHAIN OF CUSTODY DOCUMENTATION

Laboratory Analysis Report

Total Number of Pages: 81

Job ID : 13030056

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

Client Project Name :
HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Report To :	Client Name:	HVJ Associates	P.O.#.:	
	Attn:	Muhamad Mustafa	Sample Collected By:	Edgar Eusebio
	Client Address:	6120 S. Dairy Ashford	Date Collected:	02/28/13 - 03/01/13
	City, State, Zip:	Houston, Texas, 77072		

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

Client Sample ID	Matrix	A&B Sample ID
EB-1	Soil	13030056.01
EB-2	Soil	13030056.02
EB-3	Soil	13030056.03
EB-4	Soil	13030056.04
EB-4	Water	13030056.05
EB-5	Soil	13030056.06
EB-6	Soil	13030056.07
EB-7	Soil	13030056.08
EB-8	Soil	13030056.09
EB-9	Soil	13030056.10
EB-10	Soil	13030056.11

Released By: Shantall Carpenter

Title: Senior Project Manager

Date: 3/11/2013

This Laboratory is NELAP (T104704213-12-7) accredited. Effective: 07/01/2012; Expires: 03/31/2013

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 : 03/01/2013 14:03

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 13030056

Date: 3/11/2013

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.
E4	Concentration Estimated. Analyte exceeded calibration range, but within linear range.
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.
Q18	Soils not collected in a hermetically sealed container may lose low-level VOCs.
S2	Surrogate recovery is below control limit. Results may be biased low.
S5	Target compounds caused elevation of baseline. Surrogate not calculated
S6	Surrogate recovery is outside control limits due to matrix effects.
V1	CCV recovery is above acceptance limits. This target analyte was not detected in the sample.
V6	CCV recovery is above the control limit for this analyte, however the average %difference for all the analytes meets method criteria.
V7	CCV recovery is below the control limit for this analyte, however the average %difference for all the analytes meets method criteria.

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-1
Date Collected: 02/28/13
Time Collected: 12:50
Other Information:

Job Sample ID: 13030056.01
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	8.1	mg/Kg	1.01522	0.5			03/07/13 13:12	GG
	Barium	97	mg/Kg	20	10			03/07/13 15:33	GG
	Cadmium	BRL	mg/Kg	1.01522	0.5			03/07/13 13:12	GG
	Chromium	11.1	mg/Kg	1.01522	0.5			03/07/13 13:12	GG
	Lead	11.6	mg/Kg	1.01522	0.5			03/07/13 13:12	GG
	Selenium	BRL	mg/Kg	1.01522	0.5			03/07/13 13:12	GG
	Silver	BRL	mg/Kg	1.01522	0.5			03/07/13 13:12	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	0.302	mg/Kg	2	0.02			03/08/13 10:24	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Benzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Bromobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Bromochloromethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	Bromodichloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-1
Date Collected: 02/28/13
Time Collected: 12:50
Other Information:

Job Sample ID: 13030056.01
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Bromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Chlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Chloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	Chloroform	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	Chloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Dibromochloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Dibromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.99	0.005		V7	03/08/13 13:30	YZ
	Ethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Isopropylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.010			03/08/13 13:30	YZ
	MEK	BRL	mg/Kg	0.99	0.005		V6	03/08/13 13:30	YZ
	Methylene chloride	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Naphthalene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	n-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	n-Propylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	o-Xylene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Styrene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	t-butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Toluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:30	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Trichloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	Vinyl Chloride	BRL	mg/Kg	0.99	0.005			03/08/13 13:30	YZ
	1,2-Dichloroethane-d4(surr)	124	%	0.99	70-130			03/08/13 13:30	YZ
	Dibromofluoromethane(surr)	111	%	0.99	70-130			03/08/13 13:30	YZ
	p-Bromofluorobenzene(surr)	125	%	0.99	70-130			03/08/13 13:30	YZ
	Toluene-d8(surr)	104	%	0.99	70-130			03/08/13 13:30	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-1
Date Collected: 02/28/13
Time Collected: 12:50
Other Information:

Job Sample ID: 13030056.01
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 18:53	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 18:53	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 18:53	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 18:53	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 18:53	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 18:53	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 18:53	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-1
Date Collected: 02/28/13
Time Collected: 12:50
Other Information:

Job Sample ID: 13030056.01
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 18:53	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 18:53	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 18:53	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 18:53	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 18:53	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 18:53	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 18:53	PNS
	2,4,6-Tribromophenol(surr)	80.7	%	1	10-120			03/07/13 18:53	PNS
	2-Fluorobiphenyl(surr)	87.2	%	1	30-115			03/07/13 18:53	PNS
	2-Fluorophenol(surr)	63.1	%	1	20-115			03/07/13 18:53	PNS
	Nitrobenzene-d5(surr)	82.5	%	1	20-120			03/07/13 18:53	PNS
	Phenol-d6(surr)	69.9	%	1	15-120			03/07/13 18:53	PNS
	p-Terphenyl-d14(surr)	112	%	1	30-140			03/07/13 18:53	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-1

Date Collected: 02/28/13

Time Collected: 12:50

Other Information:

Job Sample ID: 13030056.01

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	27.5	mg/Kg	1	23.7		Q18	03/07/13 17:36	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/07/13 17:36	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/07/13 17:36	JYS
	Total C6-C35	27.5	mg/Kg	1				03/07/13 17:36	JYS
	1-Chlorooctane(surr)	100	%	1	60-143			03/07/13 17:36	JYS
	Chlorooctadecane(surr)	99.5	%	1	60-150			03/07/13 17:36	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-2
Date Collected: 02/28/13
Time Collected: 13:10
Other Information:

Job Sample ID: 13030056.02
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	13.1	mg/Kg	2	1.0			03/07/13 14:44	GG
	Barium	128	mg/Kg	20	10			03/07/13 14:51	GG
	Cadmium	BRL	mg/Kg	0.98522	0.5			03/07/13 13:39	GG
	Chromium	9.4	mg/Kg	2	1.0			03/07/13 14:44	GG
	Lead	6.4	mg/Kg	2	1.0			03/07/13 14:44	GG
	Selenium	BRL	mg/Kg	0.98522	0.5			03/07/13 13:39	GG
	Silver	BRL	mg/Kg	0.98522	0.5			03/07/13 13:39	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	0.053	mg/Kg	2	0.02			03/08/13 10:27	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Benzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Bromobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Bromochloromethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	Bromodichloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-2
Date Collected: 02/28/13
Time Collected: 13:10
Other Information:

Job Sample ID: 13030056.02
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Bromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Chlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Chloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	Chloroform	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	Chloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Dibromochloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Dibromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.99	0.005		V7	03/08/13 13:59	YZ
	Ethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Isopropylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.010			03/08/13 13:59	YZ
	MEK	0.0058	mg/Kg	0.99	0.005		V6	03/08/13 13:59	YZ
	Methylene chloride	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Naphthalene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	n-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	n-Propylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	o-Xylene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Styrene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	t-butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Toluene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 13:59	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Trichloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	Vinyl Chloride	BRL	mg/Kg	0.99	0.005			03/08/13 13:59	YZ
	1,2-Dichloroethane-d4(surr)	124	%	0.99	70-130			03/08/13 13:59	YZ
	Dibromofluoromethane(surr)	115	%	0.99	70-130			03/08/13 13:59	YZ
	p-Bromofluorobenzene(surr)	121	%	0.99	70-130			03/08/13 13:59	YZ
	Toluene-d8(surr)	106	%	0.99	70-130			03/08/13 13:59	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-2
Date Collected: 02/28/13
Time Collected: 13:10
Other Information:

Job Sample ID: 13030056.02
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 19:13	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 19:13	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 19:13	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 19:13	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 19:13	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 19:13	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 19:13	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-2
Date Collected: 02/28/13
Time Collected: 13:10
Other Information:

Job Sample ID: 13030056.02
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 19:13	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 19:13	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 19:13	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 19:13	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 19:13	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:13	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 19:13	PNS
	2,4,6-Tribromophenol(surr)	89.9	%	1	10-120			03/07/13 19:13	PNS
	2-Fluorobiphenyl(surr)	92	%	1	30-115			03/07/13 19:13	PNS
	2-Fluorophenol(surr)	81.3	%	1	20-115			03/07/13 19:13	PNS
	Nitrobenzene-d5(surr)	94.2	%	1	20-120			03/07/13 19:13	PNS
	Phenol-d6(surr)	87.2	%	1	15-120			03/07/13 19:13	PNS
	p-Terphenyl-d14(surr)	112	%	1	30-140			03/07/13 19:13	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-2

Date Collected: 02/28/13

Time Collected: 13:10

Other Information:

Job Sample ID: 13030056.02

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	34.4	mg/Kg	1	23.7		Q18	03/07/13 18:00	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/07/13 18:00	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/07/13 18:00	JYS
	Total C6-C35	34.4	mg/Kg	1				03/07/13 18:00	JYS
	1-Chlorooctane(surr)	94.9	%	1	60-143			03/07/13 18:00	JYS
	Chlorooctadecane(surr)	92	%	1	60-150			03/07/13 18:00	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-3

Date Collected: 02/28/13

Time Collected: 14:14

Other Information:

Job Sample ID: 13030056.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	1.6	mg/Kg	1.04166	0.5			03/07/13 13:46	GG
	Barium	142	mg/Kg	20	10			03/07/13 15:38	GG
	Cadmium	BRL	mg/Kg	1.04166	0.5			03/07/13 13:46	GG
	Chromium	7.9	mg/Kg	1.04166	0.5			03/07/13 13:46	GG
	Lead	12.0	mg/Kg	1.04166	0.5			03/07/13 13:46	GG
	Selenium	BRL	mg/Kg	1.04166	0.5			03/07/13 13:46	GG
	Silver	BRL	mg/Kg	1.04166	0.5			03/07/13 13:46	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	0.472	mg/Kg	10	0.1			03/08/13 10:43	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Benzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Bromobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Bromochloromethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	Bromodichloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-3
Date Collected: 02/28/13
Time Collected: 14:14
Other Information:

Job Sample ID: 13030056.03
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Bromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Chlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Chloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	Chloroform	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	Chloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Dibromochloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Dibromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.97	0.005		V7	03/08/13 12:30	YZ
	Ethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Isopropylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.97	0.010			03/08/13 12:30	YZ
	MEK	BRL	mg/Kg	0.97	0.005		V6	03/08/13 12:30	YZ
	Methylene chloride	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Naphthalene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	n-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	n-Propylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	o-Xylene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Styrene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	t-butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Toluene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 12:30	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Trichloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	Vinyl Chloride	BRL	mg/Kg	0.97	0.005			03/08/13 12:30	YZ
	1,2-Dichloroethane-d4(surr)	121	%	0.97	70-130			03/08/13 12:30	YZ
	Dibromofluoromethane(surr)	115	%	0.97	70-130			03/08/13 12:30	YZ
	p-Bromofluorobenzene(surr)	123	%	0.97	70-130			03/08/13 12:30	YZ
	Toluene-d8(surr)	106	%	0.97	70-130			03/08/13 12:30	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-3
Date Collected: 02/28/13
Time Collected: 14:14
Other Information:

Job Sample ID: 13030056.03
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 19:34	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 19:34	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 19:34	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 19:34	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 19:34	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 19:34	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 19:34	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-3

Date Collected: 02/28/13

Time Collected: 14:14

Other Information:

Job Sample ID: 13030056.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 19:34	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 19:34	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 19:34	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 19:34	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 19:34	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:34	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 19:34	PNS
	2,4,6-Tribromophenol(surr)	78.1	%	1	10-120			03/07/13 19:34	PNS
	2-Fluorobiphenyl(surr)	91.2	%	1	30-115			03/07/13 19:34	PNS
	2-Fluorophenol(surr)	76.3	%	1	20-115			03/07/13 19:34	PNS
	Nitrobenzene-d5(surr)	85.9	%	1	20-120			03/07/13 19:34	PNS
	Phenol-d6(surr)	83.9	%	1	15-120			03/07/13 19:34	PNS
	p-Terphenyl-d14(surr)	110	%	1	30-140			03/07/13 19:34	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-3

Date Collected: 02/28/13

Time Collected: 14:14

Other Information:

Job Sample ID: 13030056.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/Kg	1	23.7		Q18	03/07/13 18:24	JYS
	>C12-C28[1]	36.8	mg/Kg	1	20.3			03/07/13 18:24	JYS
	>C28-C35[1]	31	mg/Kg	1	17.7			03/07/13 18:24	JYS
	Total C6-C35	67.8	mg/Kg	1				03/07/13 18:24	JYS
	1-Chlorooctane(surr)	84.8	%	1	60-143			03/07/13 18:24	JYS
	Chlorooctadecane(surr)	92.5	%	1	60-150			03/07/13 18:24	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4
Date Collected: 02/28/13
Time Collected: 14:35
Other Information:

Job Sample ID: 13030056.04
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	BRL	mg/Kg	0.95238	0.5			03/07/13 13:54	GG
	Barium	118	mg/Kg	20	10			03/07/13 15:04	GG
	Cadmium	BRL	mg/Kg	0.95238	0.5			03/07/13 13:54	GG
	Chromium	8.1	mg/Kg	2	1.0			03/07/13 14:57	GG
	Lead	2.7	mg/Kg	2	1.0			03/07/13 14:57	GG
	Selenium	BRL	mg/Kg	0.95238	0.5			03/07/13 13:54	GG
	Silver	BRL	mg/Kg	0.95238	0.5			03/07/13 13:54	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			03/08/13 10:46	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Benzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Bromobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Bromochloromethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	Bromodichloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4
Date Collected: 02/28/13
Time Collected: 14:35
Other Information:

Job Sample ID: 13030056.04
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Bromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Chlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Chloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	Chloroform	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	Chloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Dibromochloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Dibromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.97	0.005		V7	03/08/13 14:29	YZ
	Ethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Isopropylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.97	0.010			03/08/13 14:29	YZ
	MEK	BRL	mg/Kg	0.97	0.005		V6	03/08/13 14:29	YZ
	Methylene chloride	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Naphthalene	0.043	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	n-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	n-Propylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	o-Xylene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Styrene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	t-butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Toluene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 14:29	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Trichloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	Vinyl Chloride	BRL	mg/Kg	0.97	0.005			03/08/13 14:29	YZ
	1,2-Dichloroethane-d4(surr)	126	%	0.97	70-130			03/08/13 14:29	YZ
	Dibromofluoromethane(surr)	117	%	0.97	70-130			03/08/13 14:29	YZ
	p-Bromofluorobenzene(surr)	118	%	0.97	70-130			03/08/13 14:29	YZ
	Toluene-d8(surr)	105	%	0.97	70-130			03/08/13 14:29	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4
Date Collected: 02/28/13
Time Collected: 14:35
Other Information:

Job Sample ID: 13030056.04
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 19:54	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 19:54	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 19:54	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 19:54	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 19:54	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 19:54	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 19:54	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4
Date Collected: 02/28/13
Time Collected: 14:35
Other Information:

Job Sample ID: 13030056.04
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 19:54	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 19:54	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 19:54	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 19:54	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 19:54	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 19:54	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 19:54	PNS
	2,4,6-Tribromophenol(surr)	73.5	%	1	10-120			03/07/13 19:54	PNS
	2-Fluorobiphenyl(surr)	76.3	%	1	30-115			03/07/13 19:54	PNS
	2-Fluorophenol(surr)	62.7	%	1	20-115			03/07/13 19:54	PNS
	Nitrobenzene-d5(surr)	74.1	%	1	20-120			03/07/13 19:54	PNS
	Phenol-d6(surr)	66.2	%	1	15-120			03/07/13 19:54	PNS
	p-Terphenyl-d14(surr)	97.3	%	1	30-140			03/07/13 19:54	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4

Date Collected: 02/28/13

Time Collected: 14:35

Other Information:

Job Sample ID: 13030056.04

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	24.2	mg/Kg	1	23.7		Q18,J	03/07/13 18:47	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/07/13 18:47	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/07/13 18:47	JYS
	Total C6-C35	24.2	mg/Kg	1				03/07/13 18:47	JYS
	1-Chlorooctane(surr)	89.6	%	1	60-143			03/07/13 18:47	JYS
	Chlorooctadecane(surr)	88.9	%	1	60-150			03/07/13 18:47	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4
Date Collected: 03/01/13
Time Collected: 07:45
Other Information:

Job Sample ID: 13030056.05
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7	Total Recoverable Metals								
	Arsenic	BRL	mg/L	1	0.01			03/07/13 14:39	GG
	Barium	0.944	mg/L	1	0.01			03/07/13 14:39	GG
	Cadmium	BRL	mg/L	1	0.01			03/07/13 14:39	GG
	Chromium	BRL	mg/L	1	0.01			03/07/13 14:39	GG
	Lead	0.021	mg/L	1	0.01			03/07/13 14:39	GG
	Selenium	BRL	mg/L	1	0.05			03/07/13 14:39	GG
	Silver	BRL	mg/L	1	0.01			03/07/13 14:39	GG
EPA 245.1	Total Metals - Mercury								
	Mercury	BRL	mg/L	1	0.0002			03/08/13 13:21	PRK
EPA 624	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	1,1,2-Trichloroethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	1,1-Dichloroethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	1,1-Dichloroethylene	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	1,2-Dichlorobenzene	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	1,2-Dichloroethane	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	1,3-Dichlorobenzene	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	1,4-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	2-Butanone	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Benzene	0.012	mg/L	1	0.01			03/07/13 15:20	YZ
	Bromodichloromethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Bromoform	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Bromomethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Carbon tetrachloride	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	Chlorobenzene	0.165	mg/L	10	0.1			03/07/13 16:08	YZ
	Chloroethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Chloroform	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	Chloromethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	cis-1,3-Dichloropropene	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Dibromochloromethane	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	Ethylbenzene	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Methylene chloride	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Tetrachloroethylene	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	Toluene	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	trans-1,2-Dichloroethylene	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	trans-1,3-Dichloropropene	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Trichloroethylene	BRL	mg/L	1	0.01			03/07/13 15:20	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4
Date Collected: 03/01/13
Time Collected: 07:45
Other Information:

Job Sample ID: 13030056.05
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624	Volatile Organic Compounds								
	Trichlorofluoromethane	BRL	mg/L	1	0.005			03/07/13 15:20	YZ
	Vinyl Chloride	BRL	mg/L	1	0.01			03/07/13 15:20	YZ
	1,2-Dichloroethane-d4(surr)	121	%	1	70-130			03/07/13 15:20	YZ
	Dibromofluoromethane(surr)	117	%	1	70-130			03/07/13 15:20	YZ
	p-Bromofluorobenzene(surr)	114	%	1	70-130			03/07/13 15:20	YZ
	Toluene-d8(surr)	98.2	%	1	70-130			03/07/13 15:20	YZ
EPA 625	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	1,2-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	1,3-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	1,4-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2,4-Dichlorophenol	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2,4-Dimethylphenol	0.013	mg/L	1	0.01			03/07/13 21:17	PNS
	2,4-Dinitrophenol	BRL	mg/L	1	0.05			03/07/13 21:17	PNS
	2,4-Dinitrotoluene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2,6-Dinitrotoluene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2-Chloronaphthalene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2-Chlorophenol	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2-Nitrophenol	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	3,3-Dichlorobenzidine	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1	0.05			03/07/13 21:17	PNS
	4-Bromophenyl phenyl ether	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	4-Chloro-3-methylphenol	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	4-Chlorophenyl pheny ether	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	4-Nitrophenol	BRL	mg/L	1	0.05			03/07/13 21:17	PNS
	Acenaphthene	0.026	mg/L	1	0.01			03/07/13 21:17	PNS
	Acenaphthylene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Anthracene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Benzidine	BRL	mg/L	1	0.05			03/07/13 21:17	PNS
	Benzo(a)anthracene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Benzo(a)pyrene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Benzo(b)fluoranthene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Benzo(g,h,i)perylene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Benzo(k)fluoranthene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Bis(2-chloroethoxy) methane	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Bis(2-chloroethyl) ether	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1	0.01			03/07/13 21:17	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-4
Date Collected: 03/01/13
Time Collected: 07:45
Other Information:

Job Sample ID: 13030056.05
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625	Semivolatile Organic Compounds								
	Bis(2-ethylhexyl)phthalate	0.023	mg/L	1	0.01			03/07/13 21:17	PNS
	Butyl benzyl phthalate	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Chrysene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Dibenzo(a,h)anthracene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Diethyl phthalate	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Dimethyl phthalate	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Di-n-butyl phthalate	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Di-n-octyl Phthalate	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Fluoranthene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Fluorene	0.014	mg/L	1	0.01			03/07/13 21:17	PNS
	Hexachlorobenzene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Hexachlorobutadiene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Hexachlorocyclopentadiene	BRL	mg/L	1	0.05			03/07/13 21:17	PNS
	Hexachloroethane	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Isophorone	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Naphthalene	0.184	mg/L	1	0.01		E4	03/07/13 21:17	PNS
	Nitrobenzene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	N-Nitrosodimethylamine	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	N-nitroso-di-n-propylamine	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	N-Nitrosodiphenylamine	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Pentachlorophenol	BRL	mg/L	1	0.05			03/07/13 21:17	PNS
	Phenanthrene	0.014	mg/L	1	0.01			03/07/13 21:17	PNS
	Phenol	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	Pyrene	BRL	mg/L	1	0.01			03/07/13 21:17	PNS
	2,4,6-Tribromophenol(surr)	41.2	%	1	19-122			03/07/13 21:17	PNS
	2-Fluorobiphenyl(surr)	48.5	%	1	30-115			03/07/13 21:17	PNS
	2-Fluorophenol(surr)	11.6	%	1	15-115		S2	03/07/13 21:17	PNS
	Nitrobenzene-d5(surr)	49.8	%	1	23-120			03/07/13 21:17	PNS
	Phenol-d6(surr)	7.86	%	1	10-130		S2	03/07/13 21:17	PNS
	p-Terphenyl-d14(surr)	48.6	%	1	18-137			03/07/13 21:17	PNS
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	2.84	mg/L	0.92	0.92			03/07/13 18:19	JYS
	>C12-C28[1]	2.83	mg/L	0.92	2.2816			03/07/13 18:19	JYS
	>C28-C35[1]	BRL	mg/L	0.92	1.7296			03/07/13 18:19	JYS
	Total C6-C35	5.67	mg/L	0.92				03/07/13 18:19	JYS
	1-Chlorooctane(surr)	103	%	0.92	60-120			03/07/13 18:19	JYS
	Chlorooctadecane(surr)	103	%	0.92	53-122			03/07/13 18:19	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-5
Date Collected: 02/28/13
Time Collected: 15:40
Other Information:

Job Sample ID: 13030056.06
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	BRL	mg/Kg	1.04712	0.5			03/07/13 15:09	GG
	Barium	129	mg/Kg	20	10			03/07/13 15:16	GG
	Cadmium	BRL	mg/Kg	1.04712	0.5			03/07/13 15:09	GG
	Chromium	9.6	mg/Kg	1.04712	0.5			03/07/13 15:09	GG
	Lead	2.7	mg/Kg	1.04712	0.5			03/07/13 15:09	GG
	Selenium	BRL	mg/Kg	1.04712	0.5			03/07/13 15:09	GG
	Silver	BRL	mg/Kg	1.04712	0.5			03/07/13 15:09	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			03/08/13 10:49	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Benzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Bromobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Bromochloromethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	Bromodichloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-5
Date Collected: 02/28/13
Time Collected: 15:40
Other Information:

Job Sample ID: 13030056.06
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Bromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Chlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Chloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	Chloroform	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	Chloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Dibromochloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Dibromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.99	0.005		V7	03/08/13 15:00	YZ
	Ethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Isopropylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.010			03/08/13 15:00	YZ
	MEK	BRL	mg/Kg	0.99	0.005		V6	03/08/13 15:00	YZ
	Methylene chloride	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Naphthalene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	n-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	n-Propylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	o-Xylene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Styrene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	t-butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Toluene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 15:00	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Trichloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	Vinyl Chloride	BRL	mg/Kg	0.99	0.005			03/08/13 15:00	YZ
	1,2-Dichloroethane-d4(surr)	125	%	0.99	70-130			03/08/13 15:00	YZ
	Dibromofluoromethane(surr)	117	%	0.99	70-130			03/08/13 15:00	YZ
	p-Bromofluorobenzene(surr)	127	%	0.99	70-130			03/08/13 15:00	YZ
	Toluene-d8(surr)	105	%	0.99	70-130			03/08/13 15:00	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-5
Date Collected: 02/28/13
Time Collected: 15:40
Other Information:

Job Sample ID: 13030056.06
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 20:36	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 20:36	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 20:36	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 20:36	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 20:36	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 20:36	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 20:36	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-5
Date Collected: 02/28/13
Time Collected: 15:40
Other Information:

Job Sample ID: 13030056.06
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 20:36	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 20:36	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 20:36	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 20:36	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 20:36	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 20:36	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 20:36	PNS
	2,4,6-Tribromophenol(surr)	80.6	%	1	10-120			03/07/13 20:36	PNS
	2-Fluorobiphenyl(surr)	83.6	%	1	30-115			03/07/13 20:36	PNS
	2-Fluorophenol(surr)	71.4	%	1	20-115			03/07/13 20:36	PNS
	Nitrobenzene-d5(surr)	84.5	%	1	20-120			03/07/13 20:36	PNS
	Phenol-d6(surr)	77.5	%	1	15-120			03/07/13 20:36	PNS
	p-Terphenyl-d14(surr)	99.6	%	1	30-140			03/07/13 20:36	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-5

Date Collected: 02/28/13

Time Collected: 15:40

Other Information:

Job Sample ID: 13030056.06

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/Kg	1	23.7		Q18	03/07/13 19:11	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/07/13 19:11	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/07/13 19:11	JYS
	Total C6-C35	BRL	mg/Kg	1				03/07/13 19:11	JYS
	1-Chlorooctane(surr)	88.4	%	1	60-143			03/07/13 19:11	JYS
	Chlorooctadecane(surr)	87.3	%	1	60-150			03/07/13 19:11	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-6
Date Collected: 02/28/13
Time Collected: 16:15
Other Information:

Job Sample ID: 13030056.07
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	1.0	mg/Kg	1.01522	0.5			03/07/13 15:22	GG
	Barium	140	mg/Kg	20	10			03/07/13 15:28	GG
	Cadmium	BRL	mg/Kg	1.01522	0.5			03/07/13 15:22	GG
	Chromium	8.6	mg/Kg	1.01522	0.5			03/07/13 15:22	GG
	Lead	7.8	mg/Kg	1.01522	0.5			03/07/13 15:22	GG
	Selenium	BRL	mg/Kg	1.01522	0.5			03/07/13 15:22	GG
	Silver	BRL	mg/Kg	1.01522	0.5			03/07/13 15:22	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	0.086	mg/Kg	2	0.02			03/08/13 10:21	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Benzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Bromobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Bromochloromethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	Bromodichloromethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-6
Date Collected: 02/28/13
Time Collected: 16:15
Other Information:

Job Sample ID: 13030056.07
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Bromomethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Chlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Chloroethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	Chloroform	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	Chloromethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Dibromochloromethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Dibromomethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.98	0.005		V7	03/08/13 15:30	YZ
	Ethylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Isopropylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.98	0.010			03/08/13 15:30	YZ
	MEK	BRL	mg/Kg	0.98	0.005		V6	03/08/13 15:30	YZ
	Methylene chloride	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Naphthalene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	n-Butylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	n-Propylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	o-Xylene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Styrene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	t-butylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Toluene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 15:30	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Trichloroethylene	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	Vinyl Chloride	BRL	mg/Kg	0.98	0.005			03/08/13 15:30	YZ
	1,2-Dichloroethane-d4(surr)	137	%	0.98	70-130		S6	03/08/13 15:30	YZ
	Dibromofluoromethane(surr)	116	%	0.98	70-130			03/08/13 15:30	YZ
	p-Bromofluorobenzene(surr)	130	%	0.98	70-130		S6	03/08/13 15:30	YZ
	Toluene-d8(surr)	105	%	0.98	70-130			03/08/13 15:30	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-6
Date Collected: 02/28/13
Time Collected: 16:15
Other Information:

Job Sample ID: 13030056.07
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 20:56	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 20:56	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 20:56	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 20:56	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 20:56	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 20:56	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 20:56	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-6
Date Collected: 02/28/13
Time Collected: 16:15
Other Information:

Job Sample ID: 13030056.07
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 20:56	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 20:56	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 20:56	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 20:56	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 20:56	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 20:56	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 20:56	PNS
	2,4,6-Tribromophenol(surr)	73.2	%	1	10-120			03/07/13 20:56	PNS
	2-Fluorobiphenyl(surr)	77.2	%	1	30-115			03/07/13 20:56	PNS
	2-Fluorophenol(surr)	56.2	%	1	20-115			03/07/13 20:56	PNS
	Nitrobenzene-d5(surr)	68.1	%	1	20-120			03/07/13 20:56	PNS
	Phenol-d6(surr)	62.1	%	1	15-120			03/07/13 20:56	PNS
	p-Terphenyl-d14(surr)	91.8	%	1	30-140			03/07/13 20:56	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-6

Date Collected: 02/28/13

Time Collected: 16:15

Other Information:

Job Sample ID: 13030056.07

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	32.3	mg/Kg	1	23.7		Q18	03/07/13 19:35	JYS
	>C12-C28[1]	107	mg/Kg	1	20.3			03/07/13 19:35	JYS
	>C28-C35[1]	42.6	mg/Kg	1	17.7			03/07/13 19:35	JYS
	Total C6-C35	181.9	mg/Kg	1				03/07/13 19:35	JYS
	1-Chlorooctane(surr)	96.5	%	1	60-143			03/07/13 19:35	JYS
	Chlorooctadecane(surr)	109	%	1	60-150			03/07/13 19:35	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-7
Date Collected: 03/01/13
Time Collected: 11:25
Other Information:

Job Sample ID: 13030056.08
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	BRL	mg/Kg	1.05263	0.5			03/07/13 16:00	GG
	Barium	64	mg/Kg	20	10			03/07/13 16:07	GG
	Cadmium	BRL	mg/Kg	1.05263	0.5			03/07/13 16:00	GG
	Chromium	5.8	mg/Kg	1.05263	0.5			03/07/13 16:00	GG
	Lead	11.2	mg/Kg	1.05263	0.5			03/07/13 16:00	GG
	Selenium	BRL	mg/Kg	1.05263	0.5			03/07/13 16:00	GG
	Silver	BRL	mg/Kg	1.05263	0.5			03/07/13 16:00	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	0.022	mg/Kg	1	0.01			03/08/13 10:18	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Benzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Bromobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Bromochloromethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	Bromodichloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-7
Date Collected: 03/01/13
Time Collected: 11:25
Other Information:

Job Sample ID: 13030056.08
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Bromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Chlorobenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Chloroethane	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	Chloroform	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	Chloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Dibromochloromethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Dibromomethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.99	0.005		V7	03/08/13 16:04	YZ
	Ethylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Isopropylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.99	0.010			03/08/13 16:04	YZ
	MEK	0.008	mg/Kg	0.99	0.005		V6	03/08/13 16:04	YZ
	Methylene chloride	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Naphthalene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	n-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	n-Propylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	o-Xylene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Styrene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	t-butylbenzene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Toluene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.99	0.005		V1	03/08/13 16:04	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Trichloroethylene	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	Vinyl Chloride	BRL	mg/Kg	0.99	0.005			03/08/13 16:04	YZ
	1,2-Dichloroethane-d4(surr)	130	%	0.99	70-130		S6	03/08/13 16:04	YZ
	Dibromofluoromethane(surr)	118	%	0.99	70-130			03/08/13 16:04	YZ
	p-Bromofluorobenzene(surr)	169	%	0.99	70-130		S6	03/08/13 16:04	YZ
	Toluene-d8(surr)	106	%	0.99	70-130			03/08/13 16:04	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	5	1.665		D1	03/07/13 22:18	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-7
Date Collected: 03/01/13
Time Collected: 11:25
Other Information:

Job Sample ID: 13030056.08
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	5	8.35			03/07/13 22:18	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2-Chloronaphthalene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2-Chlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2-Methylnaphthalene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2-Methylphenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2-Nitroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	2-Nitrophenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	5	3.335			03/07/13 22:18	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	3-Nitroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	5	8.35			03/07/13 22:18	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	4-Chloroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	4-Nitroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	4-Nitrophenol	BRL	mg/Kg	5	8.35			03/07/13 22:18	PNS
	Acenaphthene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Acenaphthylene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Aniline	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Anthracene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Azobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Benzidine	BRL	mg/Kg	5	10			03/07/13 22:18	PNS
	Benzo(a)anthracene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Benzo(a)pyrene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	5	2			03/07/13 22:18	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Benzoic acid	BRL	mg/Kg	5	8.35			03/07/13 22:18	PNS
	Benzyl alcohol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-7
Date Collected: 03/01/13
Time Collected: 11:25
Other Information:

Job Sample ID: 13030056.08
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	5	2.5			03/07/13 22:18	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	5	5			03/07/13 22:18	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Carbazole	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Chrysene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Dibenzofuran	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Diethyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Dimethyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Fluoranthene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Fluorene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Hexachlorobenzene	BRL	mg/Kg	5	2.5			03/07/13 22:18	PNS
	Hexachlorobutadiene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	5	10			03/07/13 22:18	PNS
	Hexachloroethane	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Isophorone	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Naphthalene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Nitrobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Pentachlorophenol	BRL	mg/Kg	5	8.35			03/07/13 22:18	PNS
	Phenanthrene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Phenol	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Pyrene	BRL	mg/Kg	5	1.665			03/07/13 22:18	PNS
	Pyridine	BRL	mg/Kg	5	5			03/07/13 22:18	PNS
	2,4,6-Tribromophenol(surr)	82.1	%	5	10-120			03/07/13 22:18	PNS
	2-Fluorobiphenyl(surr)	88.8	%	5	30-115			03/07/13 22:18	PNS
	2-Fluorophenol(surr)	76	%	5	20-115			03/07/13 22:18	PNS
	Nitrobenzene-d5(surr)	89	%	5	20-120			03/07/13 22:18	PNS
	Phenol-d6(surr)	78.6	%	5	15-120			03/07/13 22:18	PNS
	p-Terphenyl-d14(surr)	89.9	%	5	30-140			03/07/13 22:18	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-7

Date Collected: 03/01/13

Time Collected: 11:25

Other Information:

Job Sample ID: 13030056.08

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	52.1	mg/Kg	1	23.7		Q18	03/07/13 19:58	JYS
	>C12-C28[1]	315	mg/Kg	1	20.3			03/07/13 19:58	JYS
	>C28-C35[1]	254	mg/Kg	1	17.7			03/07/13 19:58	JYS
	Total C6-C35	621.1	mg/Kg	1				03/07/13 19:58	JYS
	1-Chlorooctane(surr)	106	%	1	60-143			03/07/13 19:58	JYS
	Chlorooctadecane(surr)	146	%	1	60-150			03/07/13 19:58	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-8
Date Collected: 03/01/13
Time Collected: 12:05
Other Information:

Job Sample ID: 13030056.09
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	1.1	mg/Kg	1.04166	0.5			03/07/13 16:13	GG
	Barium	67	mg/Kg	20	10			03/07/13 16:20	GG
	Cadmium	BRL	mg/Kg	1.04166	0.5			03/07/13 16:13	GG
	Chromium	3.3	mg/Kg	1.04166	0.5			03/07/13 16:13	GG
	Lead	3.9	mg/Kg	1.04166	0.5			03/07/13 16:13	GG
	Selenium	BRL	mg/Kg	1.04166	0.5			03/07/13 16:13	GG
	Silver	BRL	mg/Kg	1.04166	0.5			03/07/13 16:13	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			03/08/13 10:02	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Benzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Bromobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Bromochloromethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	Bromodichloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-8
Date Collected: 03/01/13
Time Collected: 12:05
Other Information:

Job Sample ID: 13030056.09
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Bromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Chlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Chloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	Chloroform	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	Chloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Dibromochloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Dibromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.97	0.005		V7	03/08/13 16:34	YZ
	Ethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Isopropylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.97	0.010			03/08/13 16:34	YZ
	MEK	BRL	mg/Kg	0.97	0.005		V6	03/08/13 16:34	YZ
	Methylene chloride	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Naphthalene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	n-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	n-Propylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	o-Xylene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Styrene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	t-butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Toluene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 16:34	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Trichloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	Vinyl Chloride	BRL	mg/Kg	0.97	0.005			03/08/13 16:34	YZ
	1,2-Dichloroethane-d4(surr)	123	%	0.97	70-130			03/08/13 16:34	YZ
	Dibromofluoromethane(surr)	110	%	0.97	70-130			03/08/13 16:34	YZ
	p-Bromofluorobenzene(surr)	121	%	0.97	70-130			03/08/13 16:34	YZ
	Toluene-d8(surr)	106	%	0.97	70-130			03/08/13 16:34	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-8
Date Collected: 03/01/13
Time Collected: 12:05
Other Information:

Job Sample ID: 13030056.09
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 17:51	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 17:51	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 17:51	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 17:51	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 17:51	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 17:51	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 17:51	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-8
Date Collected: 03/01/13
Time Collected: 12:05
Other Information:

Job Sample ID: 13030056.09
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 17:51	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 17:51	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 17:51	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 17:51	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 17:51	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 17:51	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 17:51	PNS
	2,4,6-Tribromophenol(surr)	72.9	%	1	10-120			03/07/13 17:51	PNS
	2-Fluorobiphenyl(surr)	79.9	%	1	30-115			03/07/13 17:51	PNS
	2-Fluorophenol(surr)	73.3	%	1	20-115			03/07/13 17:51	PNS
	Nitrobenzene-d5(surr)	78.6	%	1	20-120			03/07/13 17:51	PNS
	Phenol-d6(surr)	75.2	%	1	15-120			03/07/13 17:51	PNS
	p-Terphenyl-d14(surr)	92.7	%	1	30-140			03/07/13 17:51	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-8

Date Collected: 03/01/13

Time Collected: 12:05

Other Information:

Job Sample ID: 13030056.09

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	24	mg/Kg	1	23.7		Q18,J	03/07/13 20:22	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/07/13 20:22	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/07/13 20:22	JYS
	Total C6-C35	24	mg/Kg	1				03/07/13 20:22	JYS
	1-Chlorooctane(surr)	87.4	%	1	60-143			03/07/13 20:22	JYS
	Chlorooctadecane(surr)	84.6	%	1	60-150			03/07/13 20:22	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-9
Date Collected: 03/01/13
Time Collected: 12:30
Other Information:

Job Sample ID: 13030056.10
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	BRL	mg/Kg	1.05263	0.5			03/07/13 16:26	GG
	Barium	27	mg/Kg	20	10			03/07/13 16:33	GG
	Cadmium	BRL	mg/Kg	1.05263	0.5			03/07/13 16:26	GG
	Chromium	4.9	mg/Kg	1.05263	0.5			03/07/13 16:26	GG
	Lead	3.9	mg/Kg	1.05263	0.5			03/07/13 16:26	GG
	Selenium	BRL	mg/Kg	1.05263	0.5			03/07/13 16:26	GG
	Silver	BRL	mg/Kg	1.05263	0.5			03/07/13 16:26	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	2	0.02		D1	03/08/13 10:14	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Benzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Bromobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Bromochloromethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	Bromodichloromethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-9
Date Collected: 03/01/13
Time Collected: 12:30
Other Information:

Job Sample ID: 13030056.10
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Bromomethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Chlorobenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Chloroethane	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	Chloroform	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	Chloromethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Dibromochloromethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Dibromomethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.98	0.005		V7	03/08/13 17:04	YZ
	Ethylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Isopropylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.98	0.010			03/08/13 17:04	YZ
	MEK	BRL	mg/Kg	0.98	0.005		V6	03/08/13 17:04	YZ
	Methylene chloride	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Naphthalene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	n-Butylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	n-Propylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	o-Xylene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Styrene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	t-butylbenzene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Toluene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.98	0.005		V1	03/08/13 17:04	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Trichloroethylene	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	Vinyl Chloride	BRL	mg/Kg	0.98	0.005			03/08/13 17:04	YZ
	1,2-Dichloroethane-d4(surr)	128	%	0.98	70-130			03/08/13 17:04	YZ
	Dibromofluoromethane(surr)	110	%	0.98	70-130			03/08/13 17:04	YZ
	p-Bromofluorobenzene(surr)	118	%	0.98	70-130			03/08/13 17:04	YZ
	Toluene-d8(surr)	105	%	0.98	70-130			03/08/13 17:04	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-9
Date Collected: 03/01/13
Time Collected: 12:30
Other Information:

Job Sample ID: 13030056.10
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/07/13 21:37	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/07/13 21:37	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/07/13 21:37	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/07/13 21:37	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Benzidine	BRL	mg/Kg	1	2			03/07/13 21:37	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/07/13 21:37	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/07/13 21:37	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-9
Date Collected: 03/01/13
Time Collected: 12:30
Other Information:

Job Sample ID: 13030056.10
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/07/13 21:37	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/07/13 21:37	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/07/13 21:37	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/07/13 21:37	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/07/13 21:37	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/07/13 21:37	PNS
	Pyridine	BRL	mg/Kg	1	1			03/07/13 21:37	PNS
	2,4,6-Tribromophenol(surr)	80.8	%	1	10-120			03/07/13 21:37	PNS
	2-Fluorobiphenyl(surr)	85.1	%	1	30-115			03/07/13 21:37	PNS
	2-Fluorophenol(surr)	74.2	%	1	20-115			03/07/13 21:37	PNS
	Nitrobenzene-d5(surr)	84.6	%	1	20-120			03/07/13 21:37	PNS
	Phenol-d6(surr)	80.5	%	1	15-120			03/07/13 21:37	PNS
	p-Terphenyl-d14(surr)	100	%	1	30-140			03/07/13 21:37	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-9

Date Collected: 03/01/13

Time Collected: 12:30

Other Information:

Job Sample ID: 13030056.10

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/Kg	1	23.7		Q18	03/07/13 20:45	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/07/13 20:45	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/07/13 20:45	JYS
	Total C6-C35	BRL	mg/Kg	1				03/07/13 20:45	JYS
	1-Chlorooctane(surr)	79.9	%	1	60-143			03/07/13 20:45	JYS
	Chlorooctadecane(surr)	84.1	%	1	60-150			03/07/13 20:45	JYS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-10
Date Collected: 03/01/13
Time Collected: 12:55
Other Information:

Job Sample ID: 13030056.11
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	0.5	mg/Kg	0.97560	0.5			03/07/13 16:38	GG
	Barium	35	mg/Kg	20	10			03/07/13 16:46	GG
	Cadmium	BRL	mg/Kg	0.97560	0.5			03/07/13 16:38	GG
	Chromium	3.5	mg/Kg	0.97560	0.5			03/07/13 16:38	GG
	Lead	7.4	mg/Kg	0.97560	0.5			03/07/13 16:38	GG
	Selenium	BRL	mg/Kg	0.97560	0.5			03/07/13 16:38	GG
	Silver	BRL	mg/Kg	0.97560	0.5			03/07/13 16:38	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			03/08/13 10:52	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Benzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Bromobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Bromochloromethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	Bromodichloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-10
Date Collected: 03/01/13
Time Collected: 12:55
Other Information:

Job Sample ID: 13030056.11
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Bromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Chlorobenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Chloroethane	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	Chloroform	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	Chloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Dibromochloromethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Dibromomethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.97	0.005		V7	03/08/13 17:34	YZ
	Ethylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Isopropylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.97	0.010			03/08/13 17:34	YZ
	MEK	0.005	mg/Kg	0.97	0.005		V6	03/08/13 17:34	YZ
	Methylene chloride	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Naphthalene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	n-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	n-Propylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	o-Xylene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Styrene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	t-butylbenzene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Toluene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.97	0.005		V1	03/08/13 17:34	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Trichloroethylene	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	Vinyl Chloride	BRL	mg/Kg	0.97	0.005			03/08/13 17:34	YZ
	1,2-Dichloroethane-d4(surr)	123	%	0.97	70-130			03/08/13 17:34	YZ
	Dibromofluoromethane(surr)	107	%	0.97	70-130			03/08/13 17:34	YZ
	p-Bromofluorobenzene(surr)	122	%	0.97	70-130			03/08/13 17:34	YZ
	Toluene-d8(surr)	105	%	0.97	70-130			03/08/13 17:34	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	5	1.665		D1	03/07/13 22:39	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-10
Date Collected: 03/01/13
Time Collected: 12:55
Other Information:

Job Sample ID: 13030056.11
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	5	8.35			03/07/13 22:39	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2-Chloronaphthalene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2-Chlorophenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2-Methylnaphthalene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2-Methylphenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2-Nitroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	2-Nitrophenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	5	3.335			03/07/13 22:39	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	3-Nitroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	5	8.35			03/07/13 22:39	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	4-Chloroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	4-Nitroaniline	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	4-Nitrophenol	BRL	mg/Kg	5	8.35			03/07/13 22:39	PNS
	Acenaphthene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Acenaphthylene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Aniline	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Anthracene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Azobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Benzidine	BRL	mg/Kg	5	10			03/07/13 22:39	PNS
	Benzo(a)anthracene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Benzo(a)pyrene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	5	2			03/07/13 22:39	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Benzoic acid	BRL	mg/Kg	5	8.35			03/07/13 22:39	PNS
	Benzyl alcohol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-10
Date Collected: 03/01/13
Time Collected: 12:55
Other Information:

Job Sample ID: 13030056.11
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	5	2.5			03/07/13 22:39	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	5	5			03/07/13 22:39	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Carbazole	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Chrysene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Dibenzofuran	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Diethyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Dimethyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Fluoranthene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Fluorene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Hexachlorobenzene	BRL	mg/Kg	5	2.5			03/07/13 22:39	PNS
	Hexachlorobutadiene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	5	10			03/07/13 22:39	PNS
	Hexachloroethane	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Isophorone	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Naphthalene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Nitrobenzene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Pentachlorophenol	BRL	mg/Kg	5	8.35			03/07/13 22:39	PNS
	Phenanthrene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Phenol	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Pyrene	BRL	mg/Kg	5	1.665			03/07/13 22:39	PNS
	Pyridine	BRL	mg/Kg	5	5			03/07/13 22:39	PNS
	2,4,6-Tribromophenol(surr)	67	%	5	10-120			03/07/13 22:39	PNS
	2-Fluorobiphenyl(surr)	78.7	%	5	30-115			03/07/13 22:39	PNS
	2-Fluorophenol(surr)	72.2	%	5	20-115			03/07/13 22:39	PNS
	Nitrobenzene-d5(surr)	78.6	%	5	20-120			03/07/13 22:39	PNS
	Phenol-d6(surr)	76	%	5	15-120			03/07/13 22:39	PNS
	p-Terphenyl-d14(surr)	84.1	%	5	30-140			03/07/13 22:39	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13030056

Date 3/11/2013

Client Name: HVJ Associates

Attn: Muhamad Mustafa

Project Name: HE-1214760 / Phase II ESA COH EWPP Raw Water Line

Client Sample ID: EB-10

Date Collected: 03/01/13

Time Collected: 12:55

Other Information:

Job Sample ID: 13030056.11

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	31.3	mg/Kg	1	23.7		Q18	03/07/13 21:09	JYS
	>C12-C28[1]	233	mg/Kg	1	20.3			03/07/13 21:09	JYS
	>C28-C35[1]	279	mg/Kg	1	17.7			03/07/13 21:09	JYS
	Total C6-C35	543.3	mg/Kg	1				03/07/13 21:09	JYS
	1-Chlorooctane(surr)	92.3	%	1	60-143			03/07/13 21:09	JYS
	Chlorooctadecane(surr)	158	%	1	60-150		S5	03/07/13 21:09	JYS

[1]-Parameter not available for accreditation

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Total Recoverable Metals** **Method :** **EPA 200.7** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030739 **Created Date :** 03/07/13 **Created By :** Ggorane

Samples in This QC Batch : 13030056.05

Digestion : PB13030728 **Prep Method :** EPA 200.7 **Prep Date :** 03/07/13 09:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.01		
Barium	7440-39-3	BRL	mg/L	1	0.01		
Cadmium	7440-43-9	BRL	mg/L	1	0.01		
Chromium	7440-47-3	BRL	mg/L	1	0.01		
Lead	7439-92-1	BRL	mg/L	1	0.01		
Selenium	7782-49-2	BRL	mg/L	1	0.05		
Silver	7440-22-4	BRL	mg/L	1	0.01		

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
Arsenic	1	1.039	104	1	1.062	106	2.2	20	85-115	
Barium	1	0.963	96.3	1	0.973	97.3	1	20	85-115	
Cadmium	1	1.019	102	1	1.046	105	2.6	20	85-115	
Chromium	1	0.959	95.9	1	0.984	98.4	2.6	20	85-115	
Lead	1	1.021	102	1	1.046	105	2.5	20	85-115	
Selenium	1	1.083	108	1	1.098	110	1.4	20	85-115	
Silver	1	0.938	93.8	1	0.955	95.5	1.9	20	85-115	

QC Type: MS and MSD
QC Sample ID: 13030185.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	1	1.070	107						75-125	
Barium	0.09	1	1.105	101						75-125	
Cadmium	BRL	1	1.022	102						75-125	
Chromium	BRL	1	1.015	102						75-125	
Lead	BRL	1	0.969	96.9						75-125	
Selenium	BRL	1	1.059	106						75-125	
Silver	BRL	1	1.065	106						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Total Recoverable Metals** **Method :** **SW-846 6010C** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030746 **Created Date :** 03/07/13 **Created By :** Ggorane

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

Digestion : PB13030703 **Prep Method :** SW-846 3050B **Prep Date :** 03/06/13 15:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/Kg	1	0.5		
Barium	7440-39-3	BRL	mg/Kg	1	0.5		
Cadmium	7440-43-9	BRL	mg/Kg	1	0.5		
Chromium	7440-47-3	BRL	mg/Kg	1	0.5		
Selenium	7782-49-2	BRL	mg/Kg	1	0.5		
Silver	7440-22-4	BRL	mg/Kg	1	0.5		

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
Arsenic	25	25.1	101	25	25.2	101	0.4	20	80-120	
Barium	25	26.3	105	25	26.5	106	0.8	20	80-120	
Cadmium	25	24.5	98.1	25	24.9	99.4	1.3	20	80-120	
Chromium	25	26.4	106	25	26.6	106	0.8	20	80-120	
Lead	25	24.7	98.8	25	25.1	100	1.4	20	80-120	
Selenium	25	24.9	99.4	25	24.9	99.5	0.1	20	80-120	
Silver	25	24.7	99	25	24.9	99.6	0.7	20	80-120	

QC Type: MS and MSD
QC Sample ID: 13030056.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	8.0977198	25	26.7	74.5						70-130	
Barium	97	25	91.7	130						70-130	
Cadmium	BRL	25	18.4	72.8						70-130	
Chromium	11.121673	25	27.6	65.8						70-130	M2
Lead	11.559752	25	25.3	54.8						70-130	M2
Selenium	BRL	25	12.6	50.6						70-130	M2
Silver	BRL	25	18.8	75.4						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

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

QC Batch ID : Qb13030748 **Created Date :** 03/07/13 **Created By :** JShah

Samples in This QC Batch : 13030056.05

Sample Preparation : PB13030740 **Prep Method :** TX 1005 **Prep Date :** 03/07/13 08:05 **Prep By :** JShah

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12	TPH-1005-1	BRL	mg/L	1	1		
>C12-C28	TPH-1005-2	BRL	mg/L	1	2.48		
>C28-C35	TPH-1005-4	BRL	mg/L	1	1.88		
Total C6-C35		BRL	mg/L	1			
Chlorooctadecane(surr)	3386-33-2	76	%	1	53-122		
1-Chlorooctane(surr)	111-85-3	79.1	%	1	60-120		

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	43	48.6	113	43	44.1	103	9.7	20	75-125	
>C12-C28	43	48.9	114	43	46.9	109	4.2	20	75-125	
>C28-C35	43	47.8	111	43	41.9	97.4	13.2	20	75-125	

QC Type: MS and MSD
QC Sample ID: 13030249.01

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	0.514	40.6	49.4	120						75-125	
>C12-C28	0.91	40.6	51.1	124						75-125	
>C28-C35	0.58	40.6	48.4	118						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **EPA 625** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030760 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.05

Extraction : PB13030726 **Prep Method :** EPA 625 **Prep Date :** 03/06/13 12:00 **Prep By :** Msoria

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/L	1	0.01		
1,2-Dichlorobenzene	95-50-1	BRL	mg/L	1	0.01		
1,3-Dichlorobenzene	541-73-1	BRL	mg/L	1	0.01		
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.01		
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.01		
2,4-Dichlorophenol	120-83-2	BRL	mg/L	1	0.01		
2,4-Dimethylphenol	105-67-9	BRL	mg/L	1	0.01		
2,4-Dinitrophenol	51-28-5	BRL	mg/L	1	0.05		
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.01		
2,6-Dinitrotoluene	606-20-2	BRL	mg/L	1	0.01		
2-Chloronaphthalene	91-58-7	BRL	mg/L	1	0.01		
2-Chlorophenol	95-57-8	BRL	mg/L	1	0.01		
2-Nitrophenol	88-75-5	BRL	mg/L	1	0.01		
3,3-Dichlorobenzidine	91-94-1	BRL	mg/L	1	0.05		
4,6-Dinitro-2-methylphenol	534-52-1	BRL	mg/L	1	0.05		
4-Bromophenyl phenyl ethe	101-55-3	BRL	mg/L	1	0.01		
4-Chloro-3-methylphenol	59-50-7	BRL	mg/L	1	0.01		
4-Chlorophenyl pheny ether	7005-72-3	BRL	mg/L	1	0.01		
4-Nitrophenol	100-02-7	BRL	mg/L	1	0.05		
Acenaphthene	83-32-9	BRL	mg/L	1	0.01		
Acenaphthylene	208-96-8	BRL	mg/L	1	0.01		
Anthracene	120-12-7	BRL	mg/L	1	0.01		
Benzidine	92-87-5	BRL	mg/L	1	0.2		
Benzo(a)anthracene	56-55-3	BRL	mg/L	1	0.01		
Benzo(a)pyrene	50-32-8	BRL	mg/L	1	0.01		
Benzo(b)fluoranthene	205-99-2	BRL	mg/L	1	0.01		
Benzo(g,h,i)perylene	191-24-2	BRL	mg/L	1	0.01		
Benzo(k)fluoranthene	207-08-9	BRL	mg/L	1	0.01		
Bis(2-chloroethoxy) methan	111-91-1	BRL	mg/L	1	0.01		
Bis(2-chloroethyl) ether	111-44-4	BRL	mg/L	1	0.01		
Bis(2-chloroisopropyl) ether	108-60-1	BRL	mg/L	1	0.02		
Bis(2-ethylhexyl)phthalate	117-81-7	BRL	mg/L	1	0.05		
Butyl benzyl phthalate	85-68-7	BRL	mg/L	1	0.01		
Chrysene	218-01-9	BRL	mg/L	1	0.01		
Dibenzo(a,h)anthracene	53-70-3	BRL	mg/L	1	0.01		
Diethyl phthalate	84-66-2	BRL	mg/L	1	0.01		
Dimethyl phthalate	131-11-3	BRL	mg/L	1	0.01		
Di-n-butyl phthalate	84-74-2	BRL	mg/L	1	0.01		
Di-n-octyl Phthalate	117-84-0	BRL	mg/L	1	0.01		
Fluoranthene	206-44-0	BRL	mg/L	1	0.01		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **EPA 625** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030760 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.05

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Fluorene	86-73-7	BRL	mg/L	1	0.01		
Hexachlorobenzene	118-74-1	BRL	mg/L	1	0.01		
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.01		
Hexachlorocyclopentadiene	77-47-4	BRL	mg/L	1	0.05		
Hexachloroethane	67-72-1	BRL	mg/L	1	0.02		
Indeno(1,2,3-cd)pyrene	193-39-5	BRL	mg/L	1	0.01		
Isophorone	78-59-1	BRL	mg/L	1	0.01		
Naphthalene	91-20-3	BRL	mg/L	1	0.01		
Nitrobenzene	98-95-3	BRL	mg/L	1	0.01		
N-Nitrosodimethylamine	62-75-9	BRL	mg/L	1	0.01		
N-nitroso-di-n-propylamine	621-64-7	BRL	mg/L	1	0.01		
N-Nitrosodiphenylamine	86-30-6	BRL	mg/L	1	0.01		
Pentachlorophenol	87-86-5	BRL	mg/L	1	0.05		
Phenanthrene	85-01-8	BRL	mg/L	1	0.01		
Phenol	108-95-2	BRL	mg/L	1	0.01		
Pyrene	129-00-0	BRL	mg/L	1	0.01		
2-Fluorophenol(surr)	367-12-4	47.4	%	1	15-115		
Phenol-d6(surr)	13127-88-3	35.9	%	1	10-130		
Nitrobenzene-d5(surr)	4165-60-0	69.3	%	1	23-120		
2-Fluorobiphenyl(surr)	132-60-8	70.7	%	1	30-115		
2,4,6-Tribromophenol(surr)	118-79-6	71.2	%	1	19-122		
p-Terphenyl-d14(surr)	1718-51-0	83.9	%	1	18-137		

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
1,2,4-Trichlorobenzene	0.05	0.025	50	0.05	0.026	52	3.9	35	6-126	
1,2-Dichlorobenzene	0.05	0.025	50	0.05	0.026	52	3.9	35	18-102	
1,3-Dichlorobenzene	0.05	0.025	50	0.05	0.026	52	3.9	35	18-100	
1,4-Dichlorobenzene	0.05	0.024	48	0.05	0.026	52	8	35	14-109	
2,4,6-Trichlorophenol	0.05	0.032	64	0.05	0.032	64	0	25	19-120	
2,4-Dichlorophenol	0.05	0.03	60	0.05	0.03	60	0	35	9-121	
2,4-Dimethylphenol	0.05	0.027	54	0.05	0.028	56	3.6	35	D-121	
2,4-Dinitrophenol	0.05	0.017	34	0.05	0.019	38	11.1	35	20-110	
2,4-Dinitrotoluene	0.05	0.032	64	0.05	0.034	68	6.1	35	18-137	
2,6-Dinitrotoluene	0.05	0.033	66	0.05	0.035	70	5.9	35	26-122	
2-Chloronaphthalene	0.05	0.029	58	0.05	0.029	58	0	35	19-118	
2-Chlorophenol	0.05	0.025	50	0.05	0.026	52	3.9	35	18-102	
2-Nitrophenol	0.05	0.027	54	0.05	0.027	54	0	35	16-109	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **EPA 625** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030760 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.05

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
4,6-Dinitro-2-methylphenol	0.05	0.029	58	0.05	0.029	58	0	25	8-124	
4-Bromophenyl phenyl ethe	0.05	0.034	68	0.05	0.032	64	6.1	35	33-113	
4-Chloro-3-methylphenol	0.05	0.03	60	0.05	0.032	64	6.5	35	17-122	
4-Chlorophenyl pheny ether	0.05	0.032	64	0.05	0.032	64	0	35	27-120	
4-Nitrophenol	0.05	0.012	24	0.05	0.013	26	8	35	D-112	
Acenaphthene	0.05	0.03	60	0.05	0.031	62	3.3	35	23-131	
Acenaphthylene	0.05	0.031	62	0.05	0.031	62	0	35	24-117	
Anthracene	0.05	0.033	66	0.05	0.034	68	3	35	32-118	
Benzo(a)anthracene	0.05	0.032	64	0.05	0.034	68	6.1	25	36-115	
Benzo(a)pyrene	0.05	0.033	66	0.05	0.035	70	5.9	25	28-116	
Benzo(b)fluoranthene	0.05	0.032	64	0.05	0.033	66	3.1	35	27-121	
Benzo(g,h,i)perylene	0.05	0.033	66	0.05	0.034	68	3	35	18-123	
Benzo(k)fluoranthene	0.05	0.032	64	0.05	0.034	68	6.1	35	21-122	
Bis(2-chloroethoxy) methan	0.05	0.028	56	0.05	0.029	58	3.5	35	20-107	
Bis(2-chloroethyl) ether	0.05	0.02	40	0.05	0.024	48	18.2	35	23-95	
Bis(2-chloroisopropyl) ether	0.05	0.028	56	0.05	0.029	58	3.5	35	17-104	
Bis(2-ethylhexyl)phthalate	0.05	0.031	62	0.05	0.033	66	6.2	35	9-133	
Butyl benzyl phthalate	0.05	0.032	64	0.05	0.034	68	6.1	35	14-135	
Chrysene	0.05	0.035	70	0.05	0.035	70	0	25	36-117	
Dibenzo(a,h)anthracene	0.05	0.032	64	0.05	0.033	66	3.1	35	26-118	
Diethyl phthalate	0.05	0.034	68	0.05	0.034	68	0	35	25-128	
Dimethyl phthalate	0.05	0.034	68	0.05	0.034	68	0	35	27-122	
Di-n-butyl phthalate	0.05	0.034	68	0.05	0.034	68	0	35	25-128	
Di-n-octyl Phthalate	0.05	0.033	66	0.05	0.034	68	3	35	18-128	
Fluoranthene	0.05	0.033	66	0.05	0.033	66	0	35	27-131	
Fluorene	0.05	0.032	64	0.05	0.032	64	0	35	26-126	
Hexachlorobenzene	0.05	0.033	66	0.05	0.034	68	3	25	30-130	
Hexachlorobutadiene	0.05	0.023	46	0.05	0.025	50	8.3	25	5-115	
Hexachlorocyclopentadiene	0.05	0.022	44	0.05	0.023	46	4.4	35	D-95	
Hexachloroethane	0.05	0.025	50	0.05	0.027	54	7.7	25	14-102	
Indeno(1,2,3-cd)pyrene	0.05	0.033	66	0.05	0.035	70	5.9	35	24-126	
Isophorone	0.05	0.03	60	0.05	0.031	62	3.3	35	15-114	
Naphthalene	0.05	0.025	50	0.05	0.026	52	3.9	25	19-112	
Nitrobenzene	0.05	0.029	58	0.05	0.029	58	0	25	20-109	
N-Nitrosodimethylamine	0.05	0.014	28	0.05	0.015	30	6.9	35	5-92	
N-nitroso-di-n-propylamine	0.05	0.028	56	0.05	0.029	58	3.5	35	24-114	
N-Nitrosodiphenylamine	0.05	0.034	68	0.05	0.035	70	2.9	35	35-135	
Pentachlorophenol	0.05	0.025	50	0.05	0.026	52	3.9	35	D-128	
Phenanthrene	0.05	0.033	66	0.05	0.034	68	3	25	31-119	
Phenol	0.05	0.015	30	0.05	0.016	32	6.4	35	D-111	
Pyrene	0.05	0.034	68	0.05	0.035	70	2.9	35	10-145	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

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

QC Batch ID : Qb13030802 **Created Date :** 03/07/13 **Created By :** JShah

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

Sample Preparation : PB13030803 **Prep Method :** TX 1005 **Prep Date :** 03/06/13 18:12 **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	79.7	%	1	60-150		
1-Chlorooctane(surr)	111-85-3	80.2	%	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	564	113	500	573	115	1.6	20	75-125	
>C12-C28	500	508	102	500	524	105	3.1	20	75-125	
>C28-C35	500	557	111	500	568	114	2	20	75-125	

QC Type: MS and MSD
QC Sample ID: 13030056.01

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	27.5	500	653	125						75-125	
>C12-C28	BRL	500	626	125						75-125	
>C28-C35	BRL	500	598	120						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030803 **Created Date :** 03/07/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.05

Sample Preparation : PB13030804 **Prep Method :** EPA 624 **Prep Date :** 03/07/13 11:00 **Prep By :** Yzhang

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,1,1-Trichloroethane	71-55-6	BRL	mg/L	1	0.01		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	mg/L	1	0.005		
1,1,2-Trichloroethane	79-00-5	BRL	mg/L	1	0.005		
1,1-Dichloroethane	75-34-3	BRL	mg/L	1	0.005		
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.01		
1,2-Dichlorobenzene	95-50-1	BRL	mg/L	1	0.005		
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.01		
1,3-Dichlorobenzene	541-73-1	BRL	mg/L	1	0.005		
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.01		
2-Butanone	78-93-3	BRL	mg/L	1	0.005		
Benzene	71-43-2	BRL	mg/L	1	0.005		
Bromodichloromethane	75-27-4	BRL	mg/L	1	0.006		
Bromoform	75-25-2	BRL	mg/L	1	0.005		
Bromomethane	74-83-9	BRL	mg/L	1	0.005		
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.01		
Chlorobenzene	108-90-7	BRL	mg/L	1	0.01		
Chloroethane	75-00-3	BRL	mg/L	1	0.006		
Chloroform	67-66-3	BRL	mg/L	1	0.01		
Chloromethane	74-87-3	BRL	mg/L	1	0.005		
cis-1,3-Dichloropropene	10061-01-5	BRL	mg/L	1	0.006		
Dibromochloromethane	124-48-1	BRL	mg/L	1	0.01		
Ethylbenzene	100-41-4	BRL	mg/L	1	0.005		
Methylene chloride	75-09-2	BRL	mg/L	1	0.005		
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.01		
Toluene	108-88-3	BRL	mg/L	1	0.005		
trans-1,2-Dichloroethylene	156-60-5	BRL	mg/L	1	0.005		
trans-1,3-Dichloropropene	10061-02-6	BRL	mg/L	1	0.005		
Trichloroethylene	79-01-6	BRL	mg/L	1	0.01		
Trichlorofluoromethane	75-69-4	BRL	mg/L	1	0.005		
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.01		
Dibromofluoromethane(surr	1868-53-7	106	%	1	70-130		
1,2-Dichloroethane-d4(surr	17060-07-0	110	%	1	70-130		
Toluene-d8(surr)	2037-26-5	106	%	1	70-130		
p-Bromofluorobenzene(surr	460-00-4	123	%	1	70-130		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030803 **Created Date :** 03/07/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.05

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
1,1-Dichloroethylene	0.02	0.018	90	0.02	0.017	85	5.7	30	75.5-124	
Benzene	0.02	0.018	90	0.02	0.018	90	0	30	80-120	
Chlorobenzene	0.02	0.019	95	0.02	0.017	85	11.1	30	80-120	
Toluene	0.02	0.019	95	0.02	0.017	85	11.1	30	77.1-121	
Trichloroethylene	0.02	0.018	90	0.02	0.017	85	5.7	30	80-120	
1,1,1-Trichloroethane	0.02	0.02	100	0.02	0.018	90	10.5	30	80-120	
1,1,2,2-Tetrachloroethane	0.02	0.019	95	0.02	0.019	95	0	30	80-120	
1,1,2-Trichloroethane	0.02	0.019	95	0.02	0.018	90	5.4	30	80-120	
1,1-Dichloroethane	0.02	0.019	95	0.02	0.018	90	5.4	30	77.6-124	
1,2-Dichlorobenzene	0.02	0.018	90	0.02	0.018	90	0	30	83.2-121	
1,2-Dichloroethane	0.02	0.02	100	0.02	0.019	95	5.1	30	74.5-129	
1,3-Dichlorobenzene	0.02	0.018	90	0.02	0.017	85	5.7	30	80-120	
1,4-Dichlorobenzene	0.02	0.018	90	0.02	0.018	90	0	30	80-120	
Bromodichloromethane	0.02	0.019	95	0.02	0.018	90	5.4	30	80-119	
Bromoform	0.02	0.017	85	0.02	0.017	85	0	30	78.8-127	
Bromomethane	0.02	0.019	95	0.02	0.018	90	5.4	30	53-138	
Carbon tetrachloride	0.02	0.018	90	0.02	0.017	85	5.7	30	70-136	
Chloroethane	0.02	0.022	110	0.02	0.02	100	9.5	30	75.6-128	
Chloroform	0.02	0.02	100	0.02	0.018	90	10.5	30	79-123	
Chloromethane	0.02	0.021	105	0.02	0.021	105	0	30	69.6-125	
cis-1,3-Dichloropropene	0.02	0.019	95	0.02	0.018	90	5.4	30	80-120	
Dibromochloromethane	0.02	0.018	90	0.02	0.017	85	5.7	30	82.8-117	
Ethylbenzene	0.02	0.019	95	0.02	0.018	90	5.4	30	80-120	
Methylene chloride	0.02	0.019	95	0.02	0.017	85	11.1	30	69.4-131	
Tetrachloroethylene	0.02	0.017	85	0.02	0.016	80	6.1	30	40-168	
trans-1,2-Dichloroethylene	0.02	0.02	100	0.02	0.018	90	10.5	30	77.5-122	
trans-1,3-Dichloropropene	0.02	0.019	95	0.02	0.018	90	5.4	30	81.5-113	
Trichlorofluoromethane	0.02	0.021	105	0.02	0.019	95	10	30	80-132	
Vinyl Chloride	0.02	0.022	110	0.02	0.022	110	0	30	71.1-127	
2-Butanone	0.02	0.025	125	0.02	0.024	120	4.1	30	75-125	

QC Type: MS and MSD
QC Sample ID: 13021286.02

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-Dichloroethylene	BRL	0.02	0.019	95						81-130	
Benzene	BRL	0.02	0.019	95						84-132	
Chlorobenzene	BRL	0.02	0.018	90						72-132	
Toluene	BRL	0.02	0.018	90						72-136	
Trichloroethylene	BRL	0.02	0.018	90						75-136	
1,1,1-Trichloroethane	BRL	0.02	0.02	100						78-131	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030803 **Created Date :** 03/07/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.05

QC Type: MS and MSD
QC Sample ID: 13021286.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,2,2-Tetrachloroethane	BRL	0.02	0.019	95						66-145	
1,1,2-Trichloroethane	BRL	0.02	0.019	95						69-138	
1,1-Dichloroethane	BRL	0.02	0.02	100						84-128	
1,2-Dichlorobenzene	BRL	0.02	0.019	95						73-138	
1,2-Dichloroethane	BRL	0.02	0.021	105						65-154	
1,3-Dichlorobenzene	BRL	0.02	0.018	90						74-136	
1,4-Dichlorobenzene	BRL	0.02	0.018	90						71-136	
Bromodichloromethane	BRL	0.02	0.02	100						83-134	
Bromoform	BRL	0.02	0.017	85						68-135	
Bromomethane	BRL	0.02	0.018	90						65-144	
Carbon tetrachloride	BRL	0.02	0.018	90						70-136	
Chloroethane	BRL	0.02	0.022	110						76-147	
Chloroform	BRL	0.02	0.02	100						68-130	
Chloromethane	BRL	0.02	0.021	105						73-127	
cis-1,3-Dichloropropene	BRL	0.02	0.02	100						81-126	
Dibromochloromethane	BRL	0.02	0.018	90						68-139	
Ethylbenzene	BRL	0.02	0.019	95						75-133	
Methylene chloride	BRL	0.02	0.022	96						74-126	
Tetrachloroethylene	BRL	0.02	0.016	80						65-138	
trans-1,2-Dichloroethylene	BRL	0.02	0.02	100						73-130	
trans-1,3-Dichloropropene	BRL	0.02	0.018	90						73-129	
Trichlorofluoromethane	BRL	0.02	0.022	110						78-143	
Vinyl Chloride	BRL	0.02	0.024	120						58-135	
2-Butanone	BRL	0.02	0.025	125						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030815 **Created Date :** 03/08/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

Extraction : PB13030725 **Prep Method :** SW-846 3550B **Prep Date :** 03/07/13 07:00 **Prep By :** Msoria

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/Kg	1	0.333		
1,2-Dichlorobenzene	95-50-1	BRL	mg/Kg	1	0.333		
1,3-Dichlorobenzene	541-73-1	BRL	mg/Kg	1	0.333		
1,4-Dichlorobenzene	106-46-7	BRL	mg/Kg	1	0.333		
2,4,5-Trichlorophenol	95-95-4	BRL	mg/Kg	1	0.333		
2,4,6-Trichlorophenol	88-06-2	BRL	mg/Kg	1	0.333		
2,4-Dichlorophenol	120-83-2	BRL	mg/Kg	1	0.333		
2,4-Dimethylphenol	105-67-9	BRL	mg/Kg	1	0.333		
2,4-Dinitrophenol	51-28-5	BRL	mg/Kg	1	1		
2,4-Dinitrotoluene	121-14-2	BRL	mg/Kg	1	0.333		
2,6-Dinitrotoluene	606-20-2	BRL	mg/Kg	1	0.333		
2-Chloronaphthalene	91-58-7	BRL	mg/Kg	1	0.333		
2-Chlorophenol	95-57-8	BRL	mg/Kg	1	0.333		
2-Methylnaphthalene	91-57-6	BRL	mg/Kg	1	0.333		
2-Methylphenol	95-48-7	BRL	mg/Kg	1	0.333		
2-Nitroaniline	88-74-4	BRL	mg/Kg	1	0.333		
2-Nitrophenol	88-75-5	BRL	mg/Kg	1	0.333		
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/Kg	1	0.667		
3,3-Dichlorobenzidine	91-94-1	BRL	mg/Kg	1	0.34		
3-Nitroaniline	99-09-2	BRL	mg/Kg	1	0.333		
4,6-Dinitro-2-methylphenol	534-52-1	BRL	mg/Kg	1	0.333		
4-Bromophenyl phenyl ethe	101-55-3	BRL	mg/Kg	1	0.333		
4-Chloro-3-methylphenol	59-50-7	BRL	mg/Kg	1	0.333		
4-Chloroaniline	106-47-8	BRL	mg/Kg	1	0.333		
4-Chlorophenyl pheny ether	7005-72-3	BRL	mg/Kg	1	0.333		
4-Nitroaniline	100-01-6	BRL	mg/Kg	1	0.333		
4-Nitrophenol	100-02-7	BRL	mg/Kg	1	0.333		
Acenaphthene	83-32-9	BRL	mg/Kg	1	0.333		
Acenaphthylene	208-96-8	BRL	mg/Kg	1	0.333		
Aniline	62-53-3	BRL	mg/Kg	1	0.333		
Anthracene	120-12-7	BRL	mg/Kg	1	0.333		
Azobenzene	103-33-3	BRL	mg/Kg	1	0.333		
Benzidine	92-87-5	BRL	mg/Kg	1	2		
Benzo(a)anthracene	56-55-3	BRL	mg/Kg	1	0.333		
Benzo(a)pyrene	50-32-8	BRL	mg/Kg	1	0.333		
Benzo(b)fluoranthene	205-99-2	BRL	mg/Kg	1	0.333		
Benzo(g,h,i)perylene	191-24-2	BRL	mg/Kg	1	0.4		
Benzo(k)fluoranthene	207-08-9	BRL	mg/Kg	1	0.333		
Benzoic acid	65-85-0	BRL	mg/Kg	1	1		
Benzyl alcohol	100-51-6	BRL	mg/Kg	1	0.333		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030815 **Created Date :** 03/08/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Bis(2-chloroethoxy) methan	111-91-1	BRL	mg/Kg	1	0.333		
Bis(2-chloroethyl) ether	111-44-4	BRL	mg/Kg	1	0.333		
Bis(2-chloroisopropyl) ether	108-60-1	BRL	mg/Kg	1	0.5		
Bis(2-ethylhexyl)phthalate	117-81-7	BRL	mg/Kg	1	1		
Butyl benzyl phthalate	85-68-7	BRL	mg/Kg	1	0.333		
Carbazole	86-74-8	BRL	mg/Kg	1	0.333		
Chrysene	218-01-9	BRL	mg/Kg	1	0.333		
Dibenzo(a,h)anthracene	53-70-3	BRL	mg/Kg	1	0.333		
Dibenzofuran	132-64-9	BRL	mg/Kg	1	0.333		
Diethyl phthalate	84-66-2	BRL	mg/Kg	1	0.333		
Dimethyl phthalate	131-11-3	BRL	mg/Kg	1	0.333		
Di-n-butyl phthalate	84-74-2	BRL	mg/Kg	1	0.333		
Di-n-octyl Phthalate	117-84-0	BRL	mg/Kg	1	0.333		
Fluoranthene	206-44-0	BRL	mg/Kg	1	0.333		
Fluorene	86-73-7	BRL	mg/Kg	1	0.333		
Hexachlorobenzene	118-74-1	BRL	mg/Kg	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	mg/Kg	1	0.333		
Hexachlorocyclopentadiene	77-47-4	BRL	mg/Kg	1	2		
Hexachloroethane	67-72-1	BRL	mg/Kg	1	0.333		
Indeno(1,2,3-cd)pyrene	193-39-5	BRL	mg/Kg	1	0.333		
Isophorone	78-59-1	BRL	mg/Kg	1	0.333		
Naphthalene	91-20-3	BRL	mg/Kg	1	0.333		
Nitrobenzene	98-95-3	BRL	mg/Kg	1	0.333		
N-Nitrosodimethylamine	62-75-9	BRL	mg/Kg	1	0.333		
N-nitroso-di-n-propylamine	621-64-7	BRL	mg/Kg	1	0.333		
N-Nitrosodiphenylamine	86-30-6	BRL	mg/Kg	1	0.333		
Pentachlorophenol	87-86-5	BRL	mg/Kg	1	0.333		
Phenanthrene	85-01-8	BRL	mg/Kg	1	0.333		
Phenol	108-95-2	BRL	mg/Kg	1	0.333		
Pyrene	129-00-0	BRL	mg/Kg	1	0.333		
Pyridine	110-86-1	BRL	mg/Kg	1	1		
2-Fluorophenol(surr)	367-12-4	83.6	%	1	20-115		
Phenol-d6(surr)	13127-88-3	92.4	%	1	15-120		
Nitrobenzene-d5(surr)	4165-60-0	96.8	%	1	20-120		
2-Fluorobiphenyl(surr)	132-60-8	96.8	%	1	30-115		
2,4,6-Tribromophenol(surr)	118-79-6	89.4	%	1	10-120		
p-Terphenyl-d14(surr)	1718-51-0	117	%	1	30-140		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030815 **Created Date :** 03/08/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

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
1,2,4-Trichlorobenzene	1.67	1.55	92.8	1.67	1.55	92.8	0.0	35	32-126	
1,2-Dichlorobenzene	1.67	1.5	89.8	1.67	1.47	88	2	35	34-118	
1,3-Dichlorobenzene	1.67	1.5	89.8	1.67	1.47	88	2	35	34-118	
1,4-Dichlorobenzene	1.67	1.52	91	1.67	1.48	88.6	2.7	35	35-115	
2,4,5-Trichlorophenol	1.67	1.63	97.6	1.67	1.61	96.4	1.2	35	35-124	
2,4,6-Trichlorophenol	1.67	1.6	95.8	1.67	1.53	91.6	4.5	35	35-123	
2,4-Dichlorophenol	1.67	1.56	93.4	1.67	1.59	95.2	1.9	35	31-124	
2,4-Dimethylphenol	1.67	1.54	92.2	1.67	1.5	89.8	2.6	35	29-129	
2,4-Dinitrophenol	1.67	0.827	49.5	1.67	0.78	46.7	5.8	35	D-94	
2,4-Dinitrotoluene	1.67	1.57	94	1.67	1.53	91.6	2.6	35	42-134	
2,6-Dinitrotoluene	1.67	1.61	96.4	1.67	1.57	94	2.5	35	37-128	
2-Chloronaphthalene	1.67	1.56	93.4	1.67	1.53	91.6	1.9	35	37-124	
2-Chlorophenol	1.67	1.47	88	1.67	1.45	86.8	1.4	35	26-119	
2-Methylnaphthalene	1.67	1.51	90.4	1.67	1.51	90.4	0.0	35	28-128	
2-Methylphenol	1.67	1.53	91.6	1.67	1.52	91	0.7	35	26-125	
2-Nitroaniline	1.67	1.62	97	1.67	1.58	94.6	2.5	35	45-135	
2-Nitrophenol	1.67	1.49	89.2	1.67	1.53	91.6	2.7	35	25-123	
3- & 4-Methylphenols	3.33	3.06	91.9	3.33	2.97	89.2	3	35	29-118	
3,3-Dichlorobenzidine	2.67	3.01	113	2.67	2.93	110	2.7	35	45-135	
3-Nitroaniline	1.67	1.61	96.4	1.67	1.57	94	2.5	35	45-135	
4,6-Dinitro-2-methylphenol	1.67	1.44	86.2	1.67	1.42	85	1.4	35	8-129	
4-Bromophenyl phenyl ethe	1.67	1.53	91.6	1.67	1.53	91.6	0.0	35	50-122	
4-Chloro-3-methylphenol	1.67	1.59	95.2	1.67	1.53	91.6	3.8	35	40-127	
4-Chloroaniline	1.67	1.53	91.6	1.67	1.51	90.4	1.3	35	45-135	
4-Chlorophenyl pheny ether	1.67	1.58	94.6	1.67	1.56	93.4	1.3	35	47-125	
4-Nitroaniline	1.67	1.6	95.8	1.67	1.48	88.6	7.8	35	45-135	
4-Nitrophenol	1.67	0.883	52.9	1.67	0.757	45.3	15.4	35	14-138	
Acenaphthene	1.67	1.53	91.6	1.67	1.5	89.8	2	35	45-125	
Acenaphthylene	1.67	1.57	94	1.67	1.51	90.4	3.9	35	43-118	
Aniline	1.67	1.43	85.6	1.67	1.75	105	20.1	35	28.5-114	
Anthracene	1.67	1.52	91	1.67	1.54	92.2	1.3	35	53-119	
Azobenzene	1.67	1.57	94	1.67	1.59	95.2	1.3	35	45-135	
Benzidine	1.67	2.61	156	2.67	2.47	92.5	5.5	35	D-135	
Benzo(a)anthracene	1.67	1.6	95.8	1.67	1.54	92.2	3.8	35	43-131	
Benzo(a)pyrene	1.67	1.56	93.4	1.67	1.55	92.8	0.6	35	43-126	
Benzo(b)fluoranthene	1.67	1.5	89.8	1.67	1.42	85	5.5	35	36-126	
Benzo(g,h,i)perylene	1.67	1.57	94	1.67	1.52	91	3.2	35	27-126	
Benzo(k)fluoranthene	1.67	1.51	90.4	1.67	1.54	92.2	2	35	36-134	
Benzoic acid	1.67	0.485	29	1.33	0.523	39.3	7.5	35	D-135	
Benzyl alcohol	1.67	1.5	89.8	1.67	1.48	88.6	1.3	35	45-135	
Bis(2-chloroethoxy) methan	1.67	1.6	95.8	1.67	1.55	92.8	3.2	35	33-125	
Bis(2-chloroethyl) ether	1.67	1.14	68.3	1.67	1.11	66.5	2.7	35	30-125	
Bis(2-chloroisopropyl) ether	1.67	1.56	93.4	1.67	1.56	93.4	0.0	35	27-122	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030815 **Created Date :** 03/08/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

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
Bis(2-ethylhexyl)phthalate	1.67	1.54	92.2	1.67	1.52	91	1.3	35	8-158	
Butyl benzyl phthalate	1.67	1.61	96.4	1.67	1.5	89.8	7.1	35	50-139	
Carbazole	1.67	1.51	90.4	1.67	1.56	93.4	3.3	35	45-135	
Chrysene	1.67	1.66	99.4	1.67	1.56	93.4	6.2	35	42-131	
Dibenzo(a,h)anthracene	1.67	1.57	94	1.67	1.5	89.8	4.6	35	33-122	
Dibenzofuran	1.67	1.59	95.2	1.67	1.57	94	1.3	35	22-122	
Diethyl phthalate	1.67	1.58	94.6	1.67	1.51	90.4	4.5	35	48-126	
Dimethyl phthalate	1.67	1.57	94	1.67	1.5	89.8	4.6	35	48-122	
Di-n-butyl phthalate	1.67	1.56	93.4	1.67	1.56	93.4	0.0	35	51-126	
Di-n-octyl Phthalate	1.67	1.58	94.6	1.67	1.49	89.2	5.9	35	50-124	
Fluoranthene	1.67	1.54	92.2	1.67	1.55	92.8	0.6	35	51-125	
Fluorene	1.67	1.6	95.8	1.67	1.55	92.8	3.2	35	48-123	
Hexachlorobenzene	1.67	1.53	91.6	1.67	1.6	95.8	4.5	35	35-130	
Hexachlorobutadiene	1.67	1.52	91	1.67	1.51	90.4	0.7	35	31-115	
Hexachlorocyclopentadiene	1.67	1.34	80.2	1.67	1.38	82.6	2.9	35	D-116	
Hexachloroethane	1.67	1.5	89.8	1.67	1.48	88.6	1.3	35	36-114	
Indeno(1,2,3-cd)pyrene	1.67	1.54	92.2	1.67	1.53	91.6	0.7	35	31-135	
Isophorone	1.67	1.63	97.6	1.67	1.59	95.2	2.5	35	30-126	
Naphthalene	1.67	1.51	90.4	1.67	1.5	89.8	0.7	35	32-124	
Nitrobenzene	1.67	1.62	97	1.67	1.6	95.8	1.2	35	29-126	
N-Nitrosodimethylamine	1.67	1.59	95.2	1.67	1.53	91.6	3.8	35	21-121	
N-nitroso-di-n-propylamine	1.67	1.58	94.6	1.67	1.55	92.8	1.9	35	30-128	
N-Nitrosodiphenylamine	1.67	1.49	89.2	1.67	1.54	92.2	3.3	35	45-135	
Pentachlorophenol	1.67	1.36	81.4	1.67	1.32	79	3	35	36-117	
Phenanthrene	1.67	1.55	92.8	1.67	1.56	93.4	0.6	35	45-125	
Phenol	1.67	1.48	88.6	1.67	1.44	86.2	2.7	35	22-118	
Pyrene	1.67	1.68	101	1.67	1.58	94.6	6.1	35	32-138	
Pyridine	1.67	1.41	84.4	1.67	1.37	82	2.9	35	D-110	

QC Type: MS and MSD
QC Sample ID: 13030056.04

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,2,4-Trichlorobenzene	BRL	1.67	1.18	70.7						32-126	
1,2-Dichlorobenzene	BRL	1.67	1.1	65.9						34-118	
1,3-Dichlorobenzene	BRL	1.67	1.12	67.1						34-118	
1,4-Dichlorobenzene	BRL	1.67	1.13	67.7						35-115	
2,4,5-Trichlorophenol	BRL	1.67	1.22	73.1						35-124	
2,4,6-Trichlorophenol	BRL	1.67	1.09	65.3						35-123	
2,4-Dichlorophenol	BRL	1.67	1.19	71.3						31-124	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030815 **Created Date :** 03/08/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

QC Type: MS and MSD
QC Sample ID: 13030056.04

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4-Dimethylphenol	BRL	1.67	1.1	65.9						29-129	
2,4-Dinitrophenol	BRL	1.67	BRL							D-94	M2
2,4-Dinitrotoluene	BRL	1.67	1.17	70.1						42-134	
2,6-Dinitrotoluene	BRL	1.67	1.2	71.9						37-128	
2-Chloronaphthalene	BRL	1.67	1.15	68.9						37-124	
2-Chlorophenol	BRL	1.67	1.05	62.9						26-119	
2-Methylnaphthalene	BRL	1.67	1.12	67.1						28-128	
2-Methylphenol	BRL	1.67	1.11	66.5						26-125	
2-Nitroaniline	BRL	1.67	1.16	69.5						20-135	
2-Nitrophenol	BRL	1.67	1.07	64.1						25-123	
3- & 4-Methylphenols	BRL	3.33	2.21	66.4						29-118	
3,3-Dichlorobenzidine	BRL	2.67	2.1	78.7						20-135	
3-Nitroaniline	BRL	1.67	1.15	68.9						20-135	
4,6-Dinitro-2-methylphenol	BRL	1.67	0.642	38.4						8-129	
4-Bromophenyl phenyl ethe	BRL	1.67	1.18	70.7						50-122	
4-Chloro-3-methylphenol	BRL	1.67	1.12	67.1						40-127	
4-Chloroaniline	BRL	1.67	1.14	68.3						20-135	
4-Chlorophenyl pheny ether	BRL	1.67	1.17	70.1						47-125	
4-Nitroaniline	BRL	1.67	1.15	68.9						20-135	
4-Nitrophenol	BRL	1.67	0.473	28.3						14-138	
Acenaphthene	BRL	1.67	1.13	67.7						45-125	
Acenaphthylene	BRL	1.67	1.14	68.3						43-118	
Aniline	BRL	1.67	1.22	73.1						20-135	
Anthracene	BRL	1.67	1.16	69.5						53-119	
Azobenzene	BRL	1.67	1.1	65.9						20-135	
Benzidine	BRL	2.67	1.77	66.3						D-135	
Benzo(a)anthracene	BRL	1.67	1.18	70.7						43-131	
Benzo(a)pyrene	BRL	1.67	1.18	70.7						43-126	
Benzo(b)fluoranthene	BRL	1.67	1.1	65.9						36-126	
Benzo(g,h,i)perylene	BRL	1.67	1.11	66.5						27-126	
Benzo(k)fluoranthene	BRL	1.67	1.11	66.5						36-134	
Benzoic acid	BRL	1.33	BRL							D-135	M2
Benzyl alcohol	BRL	1.67	1.04	62.3						20-135	
Bis(2-chloroethoxy) methan	BRL	1.67	1.19	71.3						33-125	
Bis(2-chloroethyl) ether	BRL	1.67	0.868	52						30-125	
Bis(2-chloroisopropyl) ether	BRL	1.67	1.2	71.9						27-122	
Bis(2-ethylhexyl)phthalate	BRL	1.67	1.11	66.5						8-158	
Butyl benzyl phthalate	BRL	1.67	1.12	67.1						50-139	
Carbazole	BRL	1.67	1.14	68.3						20-135	
Chrysene	BRL	1.67	1.23	73.7						42-131	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030815 **Created Date :** 03/08/13 **Created By :** Psaraiya

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

QC Type: MS and MSD
QC Sample ID: 13030056.04

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Dibenzo(a,h)anthracene	BRL	1.67	1.13	67.7						33-122	
Dibenzofuran	BRL	1.67	1.2	71.9						22-122	
Diethyl phthalate	BRL	1.67	1.2	71.9						48-126	
Dimethyl phthalate	BRL	1.67	1.17	70.1						48-122	
Di-n-butyl phthalate	BRL	1.67	1.11	66.5						51-126	
Di-n-octyl Phthalate	BRL	1.67	1.13	67.7						50-124	
Fluoranthene	BRL	1.67	1.16	69.5						51-125	
Fluorene	BRL	1.67	1.17	70.1						48-123	
Hexachlorobenzene	BRL	1.67	1.16	69.5						35-130	
Hexachlorobutadiene	BRL	1.67	1.2	71.9						31-115	
Hexachlorocyclopentadiene	BRL	1.67	1.01	60.5						D-116	
Hexachloroethane	BRL	1.67	1.1	65.9						36-114	
Indeno(1,2,3-cd)pyrene	BRL	1.67	1.14	68.3						31-135	
Isophorone	BRL	1.67	1.19	71.3						30-126	
Naphthalene	BRL	1.67	1.15	68.9						32-124	
Nitrobenzene	BRL	1.67	1.2	71.9						29-126	
N-Nitrosodimethylamine	BRL	1.67	1.03	61.7						21-121	
N-nitroso-di-n-propylamine	BRL	1.67	1.18	70.7						30-128	
N-Nitrosodiphenylamine	BRL	1.67	1.15	68.9						20-135	
Pentachlorophenol	BRL	1.67	BRL							36-117	M2
Phenanthrene	BRL	1.67	1.16	69.5						45-125	
Phenol	BRL	1.67	1.03	61.7						22-118	
Pyrene	BRL	1.67	1.21	72.5						32-138	
Pyridine	BRL	1.67	0.926	55.4						D-110	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Total Metals - Mercury** **Method :** **SW-846 7470A** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030818 **Created Date :** 03/08/13 **Created By :** PRKasar

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

Digestion : PB13030822 **Prep Method :** SW-846 7470A **Prep Date :** 03/07/13 15:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/Kg	1	0.01		

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
Mercury	0.1	0.092	91.6	0.1	0.095	95	3.7	20	80-120	

QC Type: MS and MSD
QC Sample ID: 13030056.09

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.1	0.102	101						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

Analysis : **Total Metals - Mercury** **Method :** **EPA 245.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030840 **Created Date :** 03/08/13 **Created By :** PRKasar

Samples in This QC Batch : 13030056.05

Digestion : PB13030840 **Prep Method :** EPA 245.1 **Prep Date :** 03/08/13 09:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0002		

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
Mercury	0.005	0.0052	104	0.005	0.0058	116	10.8	35	80-120	

QC Type: MS and MSD
QC Sample ID: 13030241.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0050	96.8						80-120	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

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

QC Batch ID : Qb13030852 **Created Date :** 03/08/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

Sample Preparation : PB13030848 **Prep Method :** SW-846 5035A **Prep Date :** 03/08/13 08:00 **Prep By :** Yzhang

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 : 13030056 **Date :** 3/11/2013

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

QC Batch ID : Qb13030852 **Created Date :** 03/08/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

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	110	%	1	70-130		
1,2-Dichloroethane-d4(surr	17060-07-0	114	%	1	70-130		
Toluene-d8(surr)	2037-26-5	105	%	1	70-130		
p-Bromofluorobenzene(surr	460-00-4	125	%	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 CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.018	90	0.02	0.018	90	0.0	30	71.4-131	
1,1,1-Trichloroethane	0.02	0.02	100	0.02	0.019	95	5.1	30	69.6-140	
1,1,2,2-Tetrachloroethane	0.02	0.019	95	0.02	0.019	95	0.0	30	66.6-128	
1,1,2-Trichloroethane	0.02	0.019	95	0.02	0.019	95	0.0	30	72.8-125	
1,1-Dichloroethane	0.02	0.021	105	0.02	0.019	95	10	30	72.7-129	
1,1-Dichloroethylene	0.02	0.019	95	0.02	0.018	90	5.4	30	71.4-131	
1,1-Dichloropropene	0.02	0.021	105	0.02	0.02	100	4.9	30	75.9-132	
1,2,3-trichlorobenzene	0.02	0.018	90	0.02	0.018	90	0.0	30	56.7-153	
1,2,3-Trichloropropane	0.02	0.016	80	0.02	0.015	75	6.5	30	61.6-138	
1,2,4-Trichlorobenzene	0.02	0.018	90	0.02	0.018	90	0.0	30	55.9-150	
1,2,4-Trimethylbenzene	0.02	0.019	95	0.02	0.019	95	0.0	30	71.1-131	
1,2-Dibromo-3-chloropropa	0.02	0.018	90	0.02	0.017	85	5.7	30	52.4-150	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

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

QC Batch ID : Qb13030852 **Created Date :** 03/08/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

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	0.019	95	0.02	0.018	90	5.4	30	72.9-125	
1,2-Dichlorobenzene	0.02	0.018	90	0.02	0.018	90	0.0	30	76.1-126	
1,2-Dichloroethane	0.02	0.02	100	0.02	0.02	100	0.0	30	66.4-134	
1,2-Dichloropropane	0.02	0.02	100	0.02	0.019	95	5.1	30	70.2-128	
1,3,5-Trimethylbenzene	0.02	0.019	95	0.02	0.019	95	0.0	30	75.1-127	
1,3-Dichlorobenzene	0.02	0.018	90	0.02	0.017	85	5.7	30	73.9-126	
1,3-Dichloropropane	0.02	0.022	110	0.02	0.021	105	4.7	30	68.3-124	
1,4-Dichlorobenzene	0.02	0.018	90	0.02	0.017	85	5.7	30	72.3-127	
2,2-Dichloropropane	0.02	0.021	105	0.02	0.019	95	10	30	68.5-138	
2-Chlorotoluene	0.02	0.02	100	0.02	0.018	90	10.5	30	71.7-128	
4-Chlorotoluene	0.02	0.02	100	0.02	0.02	100	0.0	30	72.2-126	
4-Isopropyltoluene	0.02	0.019	95	0.02	0.018	90	5.4	30	77.5-125	
Benzene	0.02	0.019	95	0.02	0.019	95	0.0	30	74-126	
Bromobenzene	0.02	0.018	90	0.02	0.017	85	5.7	30	73.3-129	
Bromochloromethane	0.02	0.023	115	0.02	0.022	110	4.4	30	68.8-131	
Bromodichloromethane	0.02	0.019	95	0.02	0.019	95	0.0	30	69-135	
Bromoform	0.02	0.017	85	0.02	0.017	85	0.0	30	62-146	
Bromomethane	0.02	0.019	95	0.02	0.018	90	5.4	30	58.7-139	
Carbon tetrachloride	0.02	0.018	90	0.02	0.017	85	5.7	30	68.7-135	
Chlorobenzene	0.02	0.019	95	0.02	0.018	90	5.4	30	73.3-129	
Chloroethane	0.02	0.024	120	0.02	0.022	110	8.7	30	66.2-129	
Chloroform	0.02	0.021	105	0.02	0.02	100	4.9	30	73.7-134	
Chloromethane	0.02	0.023	115	0.02	0.022	110	4.4	30	51.4-135	
cis-1,2-Dichloroethylene	0.02	0.022	110	0.02	0.02	100	9.5	30	72.4-132	
cis-1,3-Dichloropropene	0.02	0.019	95	0.02	0.018	90	5.4	30	67.7-134	
Dibromochloromethane	0.02	0.018	90	0.02	0.018	90	0.0	30	73.2-126	
Dibromomethane	0.02	0.019	95	0.02	0.018	90	5.4	30	69.9-134	
Dichlorodifluoromethane	0.02	0.02	100	0.02	0.019	95	5.1	30	36.8-144	
Ethylbenzene	0.02	0.019	95	0.02	0.019	95	0.0	30	72.2-128	
Isopropylbenzene	0.02	0.019	95	0.02	0.019	95	0.0	30	71.2-131	
m- & p-Xylenes	0.04	0.039	97.5	0.04	0.037	92.5	5.3	30	70.7-131	
MEK	0.02	0.029	145	0.02	0.026	130	10.9	30	52.5-152	
Methylene chloride	0.02	0.021	105	0.02	0.02	100	4.9	30	70.6-129	
Naphthalene	0.02	0.019	95	0.02	0.019	95	0.0	30	60.7-145	
n-Butylbenzene	0.02	0.021	105	0.02	0.02	100	4.9	30	66.5-136	
n-Propylbenzene	0.02	0.019	95	0.02	0.018	90	5.4	30	73.3-126	
o-Xylene	0.02	0.019	95	0.02	0.019	95	0.0	30	71.6-130	
sec-Butylbenzene	0.02	0.019	95	0.02	0.018	90	5.4	30	77.9-124	
Styrene	0.02	0.019	95	0.02	0.019	95	0.0	30	71.1-131	
t-butylbenzene	0.02	0.019	95	0.02	0.018	90	5.4	30	74.4-130	
Tetrachloroethylene	0.02	0.017	85	0.02	0.017	85	0.0	30	62.6-157	
Toluene	0.02	0.019	95	0.02	0.019	95	0.0	30	73.3-127	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

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

QC Batch ID : Qb13030852 **Created Date :** 03/08/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

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	0.02	100	4.9	30	80-120	
trans-1,3-Dichloropropene	0.02	0.02	100	0.02	0.019	95	5.1	30	71.5-124	
Trichloroethylene	0.02	0.018	90	0.02	0.018	90	0.0	30	69.2-133	
Trichlorofluoromethane	0.02	0.022	110	0.02	0.021	105	4.7	30	63.9-140	
Vinyl Chloride	0.02	0.023	115	0.02	0.024	120	4.3	30	40.9-159	

QC Type: MS and MSD
QC Sample ID: 13030056.03

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	0.02	0.0092	46						71.4-131	M2
1,1,1-Trichloroethane	BRL	0.02	0.016	80						69.6-140	
1,1,2,2-Tetrachloroethane	BRL	0.02	0.0089	44.5						66.6-128	M2
1,1,2-Trichloroethane	BRL	0.02	0.011	55						72.8-125	M2
1,1-Dichloroethane	BRL	0.02	0.015	75						72.7-129	
1,1-Dichloroethylene	BRL	0.02	0.016	80						71.4-131	
1,1-Dichloropropene	BRL	0.02	0.016	80						75.9-132	
1,2,3-trichlorobenzene	BRL	0.02	0.0028	14						56.7-153	M2
1,2,3-Trichloropropane	BRL	0.02	0.008	40						61.6-138	M2
1,2,4-Trichlorobenzene	BRL	0.02	0.003	15						55.9-150	M2
1,2,4-Trimethylbenzene	BRL	0.02	0.009	45						71.1-131	M2
1,2-Dibromo-3-chloropropa	BRL	0.02	0.0074	37						52.4-150	M2
1,2-Dibromoethane	BRL	0.02	0.0088	44						72.9-125	M2
1,2-Dichlorobenzene	BRL	0.02	0.0055	27.5						76.1-126	M2
1,2-Dichloroethane	BRL	0.02	0.013	65						66.4-134	M2
1,2-Dichloropropane	BRL	0.02	0.013	65						70.2-128	M2
1,3,5-Trimethylbenzene	BRL	0.02	0.0099	49.5						75.1-127	M2
1,3-Dichlorobenzene	BRL	0.02	0.0058	29						73.9-126	M2
1,3-Dichloropropane	BRL	0.02	0.013	65						68.3-124	M2
1,4-Dichlorobenzene	BRL	0.02	0.0053	26.5						72.3-127	M2
2,2-Dichloropropane	BRL	0.02	0.014	70						68.5-138	
2-Chlorotoluene	BRL	0.02	0.0095	47.5						71.7-128	M2
4-Chlorotoluene	BRL	0.02	0.0074	37						72.2-126	M2
4-Isopropyltoluene	BRL	0.02	0.0089	44.5						77.5-125	M2
Benzene	BRL	0.02	0.013	65						74-126	M2
Bromobenzene	BRL	0.02	0.0072	36						73.3-129	M2
Bromochloromethane	BRL	0.02	0.015	75						68.8-131	
Bromodichloromethane	BRL	0.02	0.0092	46						69-135	M2
Bromoform	BRL	0.02	0.0048	24						62-146	M2
Bromomethane	BRL	0.02	0.01	50						58.7-139	M2

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13030056 **Date :** 3/11/2013

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

QC Batch ID : Qb13030852 **Created Date :** 03/08/13 **Created By :** Yzhang

Samples in This QC Batch : 13030056.01,02,03,04,06,07,08,09,10,11

QC Type: MS and MSD
QC Sample ID: 13030056.03

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	0.02	0.013	65						68.7-135	M2
Chlorobenzene	BRL	0.02	0.009	45						73.3-129	M2
Chloroethane	BRL	0.02	0.019	95						66.2-129	
Chloroform	BRL	0.02	0.015	75						73.7-134	
Chloromethane	BRL	0.02	0.019	95						51.4-135	
cis-1,2-Dichloroethylene	BRL	0.02	0.014	70						72.4-132	M2
cis-1,3-Dichloropropene	BRL	0.02	0.0055	27.5						67.7-134	M2
Dibromochloromethane	BRL	0.02	0.0065	32.5						73.2-126	M2
Dibromomethane	BRL	0.02	0.011	55						69.9-134	M2
Dichlorodifluoromethane	BRL	0.02	0.017	85						36.8-144	
Ethylbenzene	BRL	0.02	0.012	60						72.2-128	M2
Isopropylbenzene	BRL	0.02	0.011	55						71.2-131	M2
m- & p-Xylenes	BRL	0.04	0.022	55						70.7-131	M2
MEK	BRL	0.02	0.021	92						52.5-152	
Methylene chloride	BRL	0.02	0.015	75						70.6-129	
Naphthalene	BRL	0.02	0.0028	14						60.7-145	M2
n-Butylbenzene	BRL	0.02	0.0063	31.5						66.5-136	M2
n-Propylbenzene	BRL	0.02	0.011	55						73.3-126	M2
o-Xylene	BRL	0.02	0.01	50						71.6-130	M2
sec-Butylbenzene	BRL	0.02	0.0099	49.5						77.9-124	M2
Styrene	BRL	0.02	0.0062	31						71.1-131	M2
t-butylbenzene	BRL	0.02	0.01	50						74.4-130	M2
Tetrachloroethylene	BRL	0.02	0.014	70						62.6-157	
Toluene	BRL	0.02	0.012	60						73.3-127	M2
trans-1,2-Dichloroethylene	BRL	0.02	0.014	70						70-130	
trans-1,3-Dichloropropene	BRL	0.02	0.0045	22.5						71.5-124	M2
Trichloroethylene	BRL	0.02	0.014	70						69.2-133	
Trichlorofluoromethane	BRL	0.02	0.018	90						63.9-140	
Vinyl Chloride	BRL	0.02	0.022	110						40.9-159	

Refer to the Definition page for terms.

A & B Labs — *Chain of Custody*

The Chain of Custody is a Legal Document

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 #: 1303 00516

5. Project #: HE-1214760

1. REPORT TO:
Company: HVJ
Address: 6120 S. DAIRY ASHFORD RD. HOUSTON, TX 77072
Contact: MUHAMAD MUSTAFA
Phone: 281-933-7388
Fax: ☐ 281-933-7299
E-mail: ☐ MMUSTAFA@HVJ.COM

2. INVOICE TO:
Company: HVJ
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: PHASE II ESA COH EWPP RAW WATER LINE

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

8. Sampler's Name & Company (PLEASE PRINT): EDGAR EUSEBIO
Sampler's Signature & Date: Edgar Eusebio 3-1-13

LAB USE ONLY	9. Sample ID and Description	10. Sampling Date	Time 24hr	11. Comp.	Grab	12. Matrix: Water	Soil	Sludge	Oil	Drinking Water	Air	Other	13. No. of Containers	14. Containers* / 15. Preservatives** / 16. PH-Lab Only / 17. Analyses/Methods: VOC	SVOC	TPH	METAL	SOIL			18. REMARKS
01AB	EB-1	2-28-13	12:50		✓		✓						2					2			
02AB	EB-2	2-28-13	1:10		✓		✓						2					2			
03AB	EB-3	2-28-13	2:14		✓		✓						2					2			
04AB	EB-4	2-28-13	2:35		✓		✓						2					2			
05AB	EB-4	3-1-13	7:45			✓							5	3	1		1				
06AB	EB-5	2-28-13	3:40		✓		✓						2					2			
07AB	EB-6	2-28-13	4:15		✓		✓						2					2			
08AB	EB-7	3-1-13	11:25		✓		✓						2					2			
09AB	EB-8	3-1-13	12:05		✓		✓						2					2			
10AB	EB-9	3-1-13	2:30		✓		✓						2					2			

	19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1	Edgar Eusebio	3-1-13	14:03	[signature]	3-1-13	14:03
2						
3						

21. KNOWN HAZARDS/COMMENTS

Temperature: 4.4 °C
Thermometer ID: 1116 01055
Intact: Y or N Initials: DC

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

**Preservatives: C - Cool; OH - NaOH; H - HCl; T - $Na_2S_2O_3$; N - HNO_3; X - Other; S - H_2SO_4

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
A&B reserves the right to return samples

LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____

A & B Labs *Chain of Custody*

The Chain of Custody is a Legal Document

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 # 1303 00056

5. Project # HE-1214760

1. REPORT TO:
Company: HVJ
Address: 6120 S. DAIRY ASHFORD RD., HOUTON, TX 77072
Contact: MUHAMAD MUSTAFA
Phone: 281-933-7388
Fax: ☐ 281-933-7293
E-mail: ☐ MMUSTAFA@HVJ.COM

2. INVOICE TO:
Company: ~~HAY~~ HVJ
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
PHASE II ESA COH EWPP RAW WATER LINE

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

8. Sampler's Name & Company (PLEASE PRINT): EDGAR EUSEBIO
Sampler's Signature & Date: Edgar Eusebio 3-1-13

LAB USE ONLY	9. Sample ID and Description	10. Sampling Date	Time 24hr	11. Comp.	Grab	12. Matrix: Water	Soil	Sludge	Oil	Drinking Water	Air	Other	No. of Containers	Analyses/Methods: VOC	SVOC	TPH	METAL	SOIL	18. REMARKS
1AB	EB-10	3-1-13	12:55		✓		✓						2				2		

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

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1 Edgar Eusebio	3-1-12	14:03	[signature]	3.1.13	14:03
2					
3					

21. KNOWN HAZARDS/COMMENTS

Temperature: 4.4 °C
Thermometer ID #11601005
Intact Y or N Initials DL

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

**Preservatives: C - Cool; H - HCl; N - HNO_3; S - H_2SO_4; OH - NaOH; T - $NA_2S_2O_3$; X - Other _____

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
A&B reserves the right to return samples

LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____

Sample Condition Checklist

A&B JobID : **13030056**	Date Received : **03/01/2013**	Time Received : **2:03PM**
Client Name : **HVJ Associates**		
Temperature : **4.4°C**	Sample pH : **NA**	
Thermometer ID : **111601055**	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.	**Matrix :** Water ☑ Soil ☑ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
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 / 03/01/2013

Laboratory Analysis Report

Total Number of Pages: 57

Job ID : 13021286

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

Client Project Name :

Report To :	Client Name:	HVJ Associates	P.O.#.:
	Attn:	M. Mustafa	Sample Collected By: Edgar Euseolio
	Client Address:	6120 S. Dairy Ashford	Date Collected: 02/27/13
	City, State, Zip:	Houston, Texas, 77072	

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

Client Sample ID	Matrix	A&B Sample ID
EB-11	Soil	13021286.01
EB-11	Water	13021286.02
EB-12	Soil	13021286.03
EB-13	Soil	13021286.04
EB-14	Soil	13021286.05
EB-14	Water	13021286.06

Released By: Shantall Carpenter

Title: Senior Project Manager

Date: 3/11/2013

This Laboratory is NELAP (T104704213-12-7) accredited. Effective: 07/01/2012; Expires: 03/31/2013

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 : 02/28/2013 09:50

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 13021286

Date: 3/11/2013

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.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The LCS recovery is acceptable.
M8	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits.
M9	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits.
Q18	Soils not collected in a hermetically sealed container may lose low-level VOCs.
S2	Surrogate recovery is below control limit. Results may be biased low.

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11

Date Collected: 02/27/13

Time Collected: 11:05

Other Information:

Job Sample ID: 13021286.01

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	1.2	mg/Kg	1	0.5			03/08/13 18:36	GG
	Barium	59.9	mg/Kg	20	10			03/08/13 18:43	GG
	Cadmium	BRL	mg/Kg	1	0.5			03/08/13 18:36	GG
	Chromium	6.1	mg/Kg	1	0.5			03/08/13 18:36	GG
	Lead	5.0	mg/Kg	1	0.5			03/08/13 18:36	GG
	Selenium	BRL	mg/Kg	1	0.5			03/08/13 18:36	GG
	Silver	BRL	mg/Kg	1	0.5			03/08/13 18:36	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	2	0.02		D1	03/08/13 11:30	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Benzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Bromobenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Bromochloromethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Bromodichloromethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11

Date Collected: 02/27/13

Time Collected: 11:05

Other Information:

Job Sample ID: 13021286.01

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Bromomethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Chlorobenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Chloroethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Chloroform	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Chloromethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Dibromochloromethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Dibromomethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Ethylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Isopropylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.99206	0.010			02/28/13 14:47	YZ
	MEK	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Methylene chloride	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Naphthalene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	n-Butylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	n-Propylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	o-Xylene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Styrene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	t-butylbenzene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Toluene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Trichloroethylene	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	Vinyl Chloride	BRL	mg/Kg	0.99206	0.005			02/28/13 14:47	YZ
	1,2-Dichloroethane-d4(surr)	109	%	0.99206	70-130			02/28/13 14:47	YZ
	Dibromofluoromethane(surr)	104	%	0.99206	70-130			02/28/13 14:47	YZ
	p-Bromofluorobenzene(surr)	98.6	%	0.99206	70-130			02/28/13 14:47	YZ
	Toluene-d8(surr)	99.2	%	0.99206	70-130			02/28/13 14:47	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11

Date Collected: 02/27/13

Time Collected: 11:05

Other Information:

Job Sample ID: 13021286.01

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/06/13 16:58	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/06/13 16:58	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/06/13 16:58	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/06/13 16:58	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Benzidine	BRL	mg/Kg	1	2			03/06/13 16:58	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/06/13 16:58	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/06/13 16:58	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11

Date Collected: 02/27/13

Time Collected: 11:05

Other Information:

Job Sample ID: 13021286.01

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/06/13 16:58	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/06/13 16:58	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/06/13 16:58	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/06/13 16:58	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/06/13 16:58	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/06/13 16:58	PNS
	Pyridine	BRL	mg/Kg	1	1			03/06/13 16:58	PNS
	2,4,6-Tribromophenol(surr)	81.7	%	1	10-120			03/06/13 16:58	PNS
	2-Fluorobiphenyl(surr)	84.5	%	1	30-115			03/06/13 16:58	PNS
	2-Fluorophenol(surr)	74.5	%	1	20-115			03/06/13 16:58	PNS
	Nitrobenzene-d5(surr)	84.1	%	1	20-120			03/06/13 16:58	PNS
	Phenol-d6(surr)	76.3	%	1	15-120			03/06/13 16:58	PNS
	p-Terphenyl-d14(surr)	95.1	%	1	30-140			03/06/13 16:58	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11

Date Collected: 02/27/13

Time Collected: 11:05

Other Information:

Job Sample ID: 13021286.01

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/Kg	1	23.7		Q18	03/08/13 04:14	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/08/13 04:14	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/08/13 04:14	JYS
	Total C6-C35	BRL	mg/Kg	1				03/08/13 04:14	JYS
	1-Chlorooctane(surr)	85.9	%	1	60-143			03/08/13 04:14	JYS
	Chlorooctadecane(surr)	85.8	%	1	60-150			03/08/13 04:14	JYS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11

Date Collected: 02/27/13

Time Collected: 15:00

Other Information:

Job Sample ID: 13021286.02

Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7	Total Recoverable Metals								
	Arsenic	BRL	mg/L	1	0.01			03/06/13 12:53	GG
	Barium	1.891	mg/L	1	0.01			03/06/13 12:53	GG
	Cadmium	BRL	mg/L	1	0.01			03/06/13 12:53	GG
	Chromium	BRL	mg/L	1	0.01			03/06/13 12:53	GG
	Lead	0.016	mg/L	1	0.01		J	03/06/13 12:53	GG
	Selenium	BRL	mg/L	1	0.05			03/06/13 12:53	GG
	Silver	BRL	mg/L	1	0.01			03/06/13 12:53	GG
EPA 245.1	Total Metals - Mercury								
	Mercury	BRL	mg/L	1	0.0002			03/05/13 17:17	PRK
EPA 624	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	1,1,2-Trichloroethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	1,1-Dichloroethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	1,1-Dichloroethylene	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	1,2-Dichlorobenzene	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	1,2-Dichloroethane	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	1,3-Dichlorobenzene	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	1,4-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	2-Butanone	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Benzene	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	Bromodichloromethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Bromoform	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Bromomethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Carbon tetrachloride	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	Chlorobenzene	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	Chloroethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Chloroform	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	Chloromethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	cis-1,3-Dichloropropene	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Dibromochloromethane	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	Ethylbenzene	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Methylene chloride	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Tetrachloroethylene	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	Toluene	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	trans-1,2-Dichloroethylene	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	trans-1,3-Dichloropropene	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Trichloroethylene	BRL	mg/L	1	0.01			03/07/13 12:21	YZ

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11

Date Collected: 02/27/13

Time Collected: 15:00

Other Information:

Job Sample ID: 13021286.02

Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624	Volatile Organic Compounds								
	Trichlorofluoromethane	BRL	mg/L	1	0.005			03/07/13 12:21	YZ
	Vinyl Chloride	BRL	mg/L	1	0.01			03/07/13 12:21	YZ
	1,2-Dichloroethane-d4(surr)	112	%	1	70-130			03/07/13 12:21	YZ
	Dibromofluoromethane(surr)	110	%	1	70-130			03/07/13 12:21	YZ
	p-Bromofluorobenzene(surr)	123	%	1	70-130			03/07/13 12:21	YZ
	Toluene-d8(surr)	104	%	1	70-130			03/07/13 12:21	YZ
EPA 625	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	1,2-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	1,3-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	1,4-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2,4-Dichlorophenol	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2,4-Dimethylphenol	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2,4-Dinitrophenol	BRL	mg/L	1	0.05			03/07/13 18:12	PNS
	2,4-Dinitrotoluene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2,6-Dinitrotoluene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2-Chloronaphthalene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2-Chlorophenol	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2-Nitrophenol	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	3,3-Dichlorobenzidine	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1	0.05			03/07/13 18:12	PNS
	4-Bromophenyl phenyl ether	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	4-Chloro-3-methylphenol	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	4-Chlorophenyl pheny ether	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	4-Nitrophenol	BRL	mg/L	1	0.05			03/07/13 18:12	PNS
	Acenaphthene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Acenaphthylene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Anthracene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Benzidine	BRL	mg/L	1	0.05			03/07/13 18:12	PNS
	Benzo(a)anthracene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Benzo(a)pyrene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Benzo(b)fluoranthene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Benzo(g,h,i)perylene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Benzo(k)fluoranthene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Bis(2-chloroethoxy) methane	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Bis(2-chloroethyl) ether	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1	0.01			03/07/13 18:12	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-11
Date Collected: 02/27/13
Time Collected: 15:00
Other Information:

Job Sample ID: 13021286.02
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625	Semivolatile Organic Compounds								
	Bis(2-ethylhexyl)phthalate	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Butyl benzyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Chrysene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Dibenzo(a,h)anthracene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Diethyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Dimethyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Di-n-butyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Di-n-octyl Phthalate	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Fluoranthene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Fluorene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Hexachlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Hexachlorobutadiene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Hexachlorocyclopentadiene	BRL	mg/L	1	0.05			03/07/13 18:12	PNS
	Hexachloroethane	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Isophorone	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Naphthalene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Nitrobenzene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	N-Nitrosodimethylamine	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	N-nitroso-di-n-propylamine	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	N-Nitrosodiphenylamine	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Pentachlorophenol	BRL	mg/L	1	0.05			03/07/13 18:12	PNS
	Phenanthrene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Phenol	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	Pyrene	BRL	mg/L	1	0.01			03/07/13 18:12	PNS
	2,4,6-Tribromophenol(surr)	69.7	%	1	19-122			03/07/13 18:12	PNS
	2-Fluorobiphenyl(surr)	72.3	%	1	30-115			03/07/13 18:12	PNS
	2-Fluorophenol(surr)	24.5	%	1	15-115			03/07/13 18:12	PNS
	Nitrobenzene-d5(surr)	69.1	%	1	23-120			03/07/13 18:12	PNS
	Phenol-d6(surr)	14.9	%	1	10-130			03/07/13 18:12	PNS
	p-Terphenyl-d14(surr)	55.5	%	1	18-137			03/07/13 18:12	PNS
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/L	0.93	0.93			03/07/13 18:53	JYS
	>C12-C28[1]	BRL	mg/L	0.93	2.3064			03/07/13 18:53	JYS
	>C28-C35[1]	BRL	mg/L	0.93	1.7484			03/07/13 18:53	JYS
	Total C6-C35	BRL	mg/L	0.93				03/07/13 18:53	JYS
	1-Chlorooctane(surr)	89.6	%	0.93	60-120			03/07/13 18:53	JYS
	Chlorooctadecane(surr)	94	%	0.93	53-122			03/07/13 18:53	JYS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-12

Date Collected: 02/27/13

Time Collected: 12:30

Other Information:

Job Sample ID: 13021286.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	2.3	mg/Kg	1	0.5			03/08/13 19:01	GG
	Barium	110	mg/Kg	20	10			03/08/13 19:07	GG
	Cadmium	BRL	mg/Kg	1	0.5			03/08/13 19:01	GG
	Chromium	11.3	mg/Kg	1	0.5			03/08/13 19:01	GG
	Lead	8.2	mg/Kg	1	0.5			03/08/13 19:01	GG
	Selenium	BRL	mg/Kg	1	0.5			03/08/13 19:01	GG
	Silver	BRL	mg/Kg	1	0.5			03/08/13 19:01	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			03/08/13 11:33	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Benzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Bromobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Bromochloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Bromodichloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-12

Date Collected: 02/27/13

Time Collected: 12:30

Other Information:

Job Sample ID: 13021286.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Bromomethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Chlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Chloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Chloroform	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Chloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Dibromochloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Dibromomethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Ethylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Isopropylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.99800	0.010			02/28/13 15:17	YZ
	MEK	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Methylene chloride	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Naphthalene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	n-Butylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	n-Propylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	o-Xylene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Styrene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	t-butylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Toluene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Trichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	Vinyl Chloride	BRL	mg/Kg	0.99800	0.005			02/28/13 15:17	YZ
	1,2-Dichloroethane-d4(surr)	110	%	0.99800	70-130			02/28/13 15:17	YZ
	Dibromofluoromethane(surr)	106	%	0.99800	70-130			02/28/13 15:17	YZ
	p-Bromofluorobenzene(surr)	97.1	%	0.99800	70-130			02/28/13 15:17	YZ
	Toluene-d8(surr)	102	%	0.99800	70-130			02/28/13 15:17	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-12

Date Collected: 02/27/13

Time Collected: 12:30

Other Information:

Job Sample ID: 13021286.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/06/13 17:45	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/06/13 17:45	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/06/13 17:45	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/06/13 17:45	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Benzidine	BRL	mg/Kg	1	2			03/06/13 17:45	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/06/13 17:45	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/06/13 17:45	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-12

Date Collected: 02/27/13

Time Collected: 12:30

Other Information:

Job Sample ID: 13021286.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/06/13 17:45	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/06/13 17:45	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/06/13 17:45	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/06/13 17:45	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/06/13 17:45	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/06/13 17:45	PNS
	Pyridine	BRL	mg/Kg	1	1			03/06/13 17:45	PNS
	2,4,6-Tribromophenol(surr)	78.6	%	1	10-120			03/06/13 17:45	PNS
	2-Fluorobiphenyl(surr)	74.9	%	1	30-115			03/06/13 17:45	PNS
	2-Fluorophenol(surr)	70.1	%	1	20-115			03/06/13 17:45	PNS
	Nitrobenzene-d5(surr)	75.1	%	1	20-120			03/06/13 17:45	PNS
	Phenol-d6(surr)	71.6	%	1	15-120			03/06/13 17:45	PNS
	p-Terphenyl-d14(surr)	89.8	%	1	30-140			03/06/13 17:45	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-12

Date Collected: 02/27/13

Time Collected: 12:30

Other Information:

Job Sample ID: 13021286.03

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/Kg	1	23.7		Q18	03/08/13 04:14	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/08/13 04:14	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/08/13 04:14	JYS
	Total C6-C35	BRL	mg/Kg	1				03/08/13 04:14	JYS
	1-Chlorooctane(surr)	98.7	%	1	60-143			03/08/13 04:14	JYS
	Chlorooctadecane(surr)	91.8	%	1	60-150			03/08/13 04:14	JYS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-13

Date Collected: 02/27/13

Time Collected: 12:43

Other Information:

Job Sample ID: 13021286.04

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	1.4	mg/Kg	1	0.5			03/08/13 18:10	GG
	Barium	124	mg/Kg	20	10			03/08/13 18:32	GG
	Cadmium	BRL	mg/Kg	1	0.5			03/08/13 18:10	GG
	Chromium	5.5	mg/Kg	1	0.5			03/08/13 18:10	GG
	Lead	6.2	mg/Kg	1	0.5			03/08/13 18:10	GG
	Selenium	BRL	mg/Kg	1	0.5			03/08/13 18:10	GG
	Silver	BRL	mg/Kg	1	0.5			03/08/13 18:10	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			03/08/13 11:37	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Benzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Bromobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Bromochloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Bromodichloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-13

Date Collected: 02/27/13

Time Collected: 12:43

Other Information:

Job Sample ID: 13021286.04

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Bromomethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Chlorobenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Chloroethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Chloroform	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Chloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Dibromochloromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Dibromomethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Ethylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Isopropylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.99800	0.010			02/28/13 16:01	YZ
	MEK	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Methylene chloride	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Naphthalene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	n-Butylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	n-Propylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	o-Xylene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Styrene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	t-butylbenzene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Toluene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Trichloroethylene	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	Vinyl Chloride	BRL	mg/Kg	0.99800	0.005			02/28/13 16:01	YZ
	1,2-Dichloroethane-d4(surr)	107	%	0.99800	70-130			02/28/13 16:01	YZ
	Dibromofluoromethane(surr)	106	%	0.99800	70-130			02/28/13 16:01	YZ
	p-Bromofluorobenzene(surr)	95.4	%	0.99800	70-130			02/28/13 16:01	YZ
	Toluene-d8(surr)	99.2	%	0.99800	70-130			02/28/13 16:01	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-13

Date Collected: 02/27/13

Time Collected: 12:43

Other Information:

Job Sample ID: 13021286.04

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/06/13 18:05	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/06/13 18:05	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/06/13 18:05	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/06/13 18:05	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Benzidine	BRL	mg/Kg	1	2			03/06/13 18:05	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/06/13 18:05	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/06/13 18:05	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-13

Date Collected: 02/27/13

Time Collected: 12:43

Other Information:

Job Sample ID: 13021286.04

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/06/13 18:05	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/06/13 18:05	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/06/13 18:05	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/06/13 18:05	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/06/13 18:05	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/06/13 18:05	PNS
	Pyridine	BRL	mg/Kg	1	1			03/06/13 18:05	PNS
	2,4,6-Tribromophenol(surr)	66.4	%	1	10-120			03/06/13 18:05	PNS
	2-Fluorobiphenyl(surr)	72.4	%	1	30-115			03/06/13 18:05	PNS
	2-Fluorophenol(surr)	66.2	%	1	20-115			03/06/13 18:05	PNS
	Nitrobenzene-d5(surr)	72.3	%	1	20-120			03/06/13 18:05	PNS
	Phenol-d6(surr)	68.4	%	1	15-120			03/06/13 18:05	PNS
	p-Terphenyl-d14(surr)	82.6	%	1	30-140			03/06/13 18:05	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-13

Date Collected: 02/27/13

Time Collected: 12:43

Other Information:

Job Sample ID: 13021286.04

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/Kg	1	23.7		Q18	03/08/13 04:14	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/08/13 04:14	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/08/13 04:14	JYS
	Total C6-C35	BRL	mg/Kg	1				03/08/13 04:14	JYS
	1-Chlorooctane(surr)	103	%	1	60-143			03/08/13 04:14	JYS
	Chlorooctadecane(surr)	100	%	1	60-150			03/08/13 04:14	JYS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14

Date Collected: 02/27/13

Time Collected: 13:12

Other Information:

Job Sample ID: 13021286.05

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Recoverable Metals								
	Arsenic	1.2	mg/Kg	1	0.5			03/08/13 19:11	GG
	Barium	99	mg/Kg	20	10			03/08/13 19:17	GG
	Cadmium	BRL	mg/Kg	1	0.5			03/08/13 19:11	GG
	Chromium	7.1	mg/Kg	1	0.5			03/08/13 19:11	GG
	Lead	5.0	mg/Kg	1	0.5			03/08/13 19:11	GG
	Selenium	BRL	mg/Kg	1	0.5			03/08/13 19:11	GG
	Silver	BRL	mg/Kg	1	0.5			03/08/13 19:11	GG
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			03/08/13 11:40	PRK
SW-846 8260C	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,1,1-Trichloroethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,1,2-Trichloroethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,1-Dichloroethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,1-Dichloroethylene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,1-Dichloropropene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2,3-trichlorobenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2,3-Trichloropropane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2,4-Trichlorobenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2,4-Trimethylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2-Dibromoethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2-Dichlorobenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2-Dichloroethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2-Dichloropropane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,3,5-Trimethylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,3-Dichlorobenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,3-Dichloropropane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,4-Dichlorobenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	2,2-Dichloropropane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	2-Chlorotoluene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	4-Chlorotoluene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	4-Isopropyltoluene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Benzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Bromobenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Bromochloromethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Bromodichloromethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14

Date Collected: 02/27/13

Time Collected: 13:12

Other Information:

Job Sample ID: 13021286.05

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260C	Volatile Organic Compounds								
	Bromoform	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Bromomethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Carbon tetrachloride	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Chlorobenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Chloroethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Chloroform	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Chloromethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	cis-1,2-Dichloroethylene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	cis-1,3-Dichloropropene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Dibromochloromethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Dibromomethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Dichlorodifluoromethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Ethylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Isopropylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	m- & p-Xylenes	BRL	mg/Kg	0.98619	0.010			02/28/13 16:31	YZ
	MEK	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Methylene chloride	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Naphthalene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	n-Butylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	n-Propylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	o-Xylene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	sec-Butylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Styrene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	t-butylbenzene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Tetrachloroethylene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Toluene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	trans-1,2-Dichloroethylene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	trans-1,3-Dichloropropene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Trichloroethylene	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Trichlorofluoromethane	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	Vinyl Chloride	BRL	mg/Kg	0.98619	0.005			02/28/13 16:31	YZ
	1,2-Dichloroethane-d4(surr)	110	%	0.98619	70-130			02/28/13 16:31	YZ
	Dibromofluoromethane(surr)	102	%	0.98619	70-130			02/28/13 16:31	YZ
	p-Bromofluorobenzene(surr)	99.3	%	0.98619	70-130			02/28/13 16:31	YZ
	Toluene-d8(surr)	100	%	0.98619	70-130			02/28/13 16:31	YZ
SW-846 8270D	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	1,2-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14

Date Collected: 02/27/13

Time Collected: 13:12

Other Information:

Job Sample ID: 13021286.05

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	1,3-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	1,4-Dichlorobenzene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2,4,5-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2,4,6-Trichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2,4-Dichlorophenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2,4-Dimethylphenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2,4-Dinitrophenol	BRL	mg/Kg	1	1.67			03/06/13 15:52	PNS
	2,4-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2,6-Dinitrotoluene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2-Chloronaphthalene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2-Chlorophenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2-Methylnaphthalene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2-Methylphenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	2-Nitrophenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	3- & 4-Methylphenols	BRL	mg/Kg	1	0.667			03/06/13 15:52	PNS
	3,3-Dichlorobenzidine	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	3-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/Kg	1	1.67			03/06/13 15:52	PNS
	4-Bromophenyl phenyl ether	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	4-Chloro-3-methylphenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	4-Chloroaniline	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	4-Chlorophenyl pheny ether	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	4-Nitroaniline	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	4-Nitrophenol	BRL	mg/Kg	1	1.67			03/06/13 15:52	PNS
	Acenaphthene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Acenaphthylene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Aniline	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Anthracene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Azobenzene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Benzidine	BRL	mg/Kg	1	2			03/06/13 15:52	PNS
	Benzo(a)anthracene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Benzo(a)pyrene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Benzo(b)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Benzo(g,h,i)perylene	BRL	mg/Kg	1	0.4			03/06/13 15:52	PNS
	Benzo(k)fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Benzoic acid	BRL	mg/Kg	1	1.67			03/06/13 15:52	PNS
	Benzyl alcohol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14

Date Collected: 02/27/13

Time Collected: 13:12

Other Information:

Job Sample ID: 13021286.05

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	Semivolatile Organic Compounds								
	Bis(2-chloroethoxy) methane	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Bis(2-chloroethyl) ether	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/Kg	1	0.5			03/06/13 15:52	PNS
	Bis(2-ethylhexyl)phthalate	BRL	mg/Kg	1	1			03/06/13 15:52	PNS
	Butyl benzyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Carbazole	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Chrysene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Dibenzo(a,h)anthracene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Dibenzofuran	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Diethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Dimethyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Di-n-butyl phthalate	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Di-n-octyl Phthalate	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Fluoranthene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Fluorene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Hexachlorobenzene	BRL	mg/Kg	1	0.5			03/06/13 15:52	PNS
	Hexachlorobutadiene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Hexachlorocyclopentadiene	BRL	mg/Kg	1	2			03/06/13 15:52	PNS
	Hexachloroethane	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Isophorone	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Naphthalene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Nitrobenzene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	N-Nitrosodimethylamine	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	N-nitroso-di-n-propylamine	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	N-Nitrosodiphenylamine	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Pentachlorophenol	BRL	mg/Kg	1	1.67			03/06/13 15:52	PNS
	Phenanthrene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Phenol	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Pyrene	BRL	mg/Kg	1	0.333			03/06/13 15:52	PNS
	Pyridine	BRL	mg/Kg	1	1			03/06/13 15:52	PNS
	2,4,6-Tribromophenol(surr)	91.2	%	1	10-120			03/06/13 15:52	PNS
	2-Fluorobiphenyl(surr)	103	%	1	30-115			03/06/13 15:52	PNS
	2-Fluorophenol(surr)	88.9	%	1	20-115			03/06/13 15:52	PNS
	Nitrobenzene-d5(surr)	99.5	%	1	20-120			03/06/13 15:52	PNS
	Phenol-d6(surr)	91.8	%	1	15-120			03/06/13 15:52	PNS
	p-Terphenyl-d14(surr)	117	%	1	30-140			03/06/13 15:52	PNS
TX 1005	Total Petroleum Hydrocarbons								

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14

Date Collected: 02/27/13

Time Collected: 13:12

Other Information:

Job Sample ID: 13021286.05

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/Kg	1	23.7		Q18	03/08/13 04:14	JYS
	>C12-C28[1]	BRL	mg/Kg	1	20.3			03/08/13 04:14	JYS
	>C28-C35[1]	BRL	mg/Kg	1	17.7			03/08/13 04:14	JYS
	Total C6-C35	BRL	mg/Kg	1				03/08/13 04:14	JYS
	1-Chlorooctane(surr)	97.9	%	1	60-143			03/08/13 04:14	JYS
	Chlorooctadecane(surr)	97.5	%	1	60-150			03/08/13 04:14	JYS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14

Date Collected: 02/27/13

Time Collected: 15:20

Other Information:

Job Sample ID: 13021286.06

Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7	Total Recoverable Metals								
	Arsenic	BRL	mg/L	1	0.01			03/06/13 13:00	GG
	Barium	0.256	mg/L	1	0.01			03/06/13 13:00	GG
	Cadmium	BRL	mg/L	1	0.01			03/06/13 13:00	GG
	Chromium	0.012	mg/L	1	0.01		J	03/06/13 13:00	GG
	Lead	0.019	mg/L	1	0.01		J	03/06/13 13:00	GG
	Selenium	BRL	mg/L	1	0.05			03/06/13 13:00	GG
	Silver	BRL	mg/L	1	0.01			03/06/13 13:00	GG
EPA 245.1	Total Metals - Mercury								
	Mercury	BRL	mg/L	1	0.0002			03/05/13 17:20	PRK
EPA 624	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	1,1,2-Trichloroethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	1,1-Dichloroethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	1,1-Dichloroethylene	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	1,2-Dichlorobenzene	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	1,2-Dichloroethane	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	1,3-Dichlorobenzene	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	1,4-Dichlorobenzene	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	2-Butanone	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Benzene	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	Bromodichloromethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Bromoform	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Bromomethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Carbon tetrachloride	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	Chlorobenzene	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	Chloroethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Chloroform	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	Chloromethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	cis-1,3-Dichloropropene	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Dibromochloromethane	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	Ethylbenzene	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Methylene chloride	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Tetrachloroethylene	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	Toluene	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	trans-1,2-Dichloroethylene	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	trans-1,3-Dichloropropene	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Trichloroethylene	BRL	mg/L	1	0.01			03/06/13 16:40	YZ

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14
Date Collected: 02/27/13
Time Collected: 15:20
Other Information:

Job Sample ID: 13021286.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624	Volatile Organic Compounds								
	Trichlorofluoromethane	BRL	mg/L	1	0.005			03/06/13 16:40	YZ
	Vinyl Chloride	BRL	mg/L	1	0.01			03/06/13 16:40	YZ
	1,2-Dichloroethane-d4(surr)	96.3	%	1	70-130			03/06/13 16:40	YZ
	Dibromofluoromethane(surr)	97.1	%	1	70-130			03/06/13 16:40	YZ
	p-Bromofluorobenzene(surr)	110	%	1	70-130			03/06/13 16:40	YZ
	Toluene-d8(surr)	103	%	1	70-130			03/06/13 16:40	YZ
EPA 625	Semivolatile Organic Compounds								
	1,2,4-Trichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	1,2-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	1,3-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	1,4-Dichlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2,4-Dichlorophenol	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2,4-Dimethylphenol	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2,4-Dinitrophenol	BRL	mg/L	1	0.05			03/07/13 18:32	PNS
	2,4-Dinitrotoluene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2,6-Dinitrotoluene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2-Chloronaphthalene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2-Chlorophenol	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2-Nitrophenol	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	3,3-Dichlorobenzidine	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1	0.05			03/07/13 18:32	PNS
	4-Bromophenyl phenyl ether	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	4-Chloro-3-methylphenol	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	4-Chlorophenyl pheny ether	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	4-Nitrophenol	BRL	mg/L	1	0.05			03/07/13 18:32	PNS
	Acenaphthene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Acenaphthylene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Anthracene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Benzidine	BRL	mg/L	1	0.05			03/07/13 18:32	PNS
	Benzo(a)anthracene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Benzo(a)pyrene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Benzo(b)fluoranthene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Benzo(g,h,i)perylene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Benzo(k)fluoranthene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Bis(2-chloroethoxy) methane	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Bis(2-chloroethyl) ether	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1	0.01			03/07/13 18:32	PNS

LABORATORY TEST RESULTS

Job ID : 13021286

Date 3/11/2013

Client Name: HVJ Associates

Attn: M. Mustafa

Project Name:

Client Sample ID: EB-14
Date Collected: 02/27/13
Time Collected: 15:20
Other Information:

Job Sample ID: 13021286.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625	Semivolatile Organic Compounds								
	Bis(2-ethylhexyl)phthalate	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Butyl benzyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Chrysene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Dibenzo(a,h)anthracene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Diethyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Dimethyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Di-n-butyl phthalate	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Di-n-octyl Phthalate	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Fluoranthene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Fluorene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Hexachlorobenzene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Hexachlorobutadiene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Hexachlorocyclopentadiene	BRL	mg/L	1	0.05			03/07/13 18:32	PNS
	Hexachloroethane	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Isophorone	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Naphthalene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Nitrobenzene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	N-Nitrosodimethylamine	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	N-nitroso-di-n-propylamine	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	N-Nitrosodiphenylamine	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Pentachlorophenol	BRL	mg/L	1	0.05			03/07/13 18:32	PNS
	Phenanthrene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Phenol	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	Pyrene	BRL	mg/L	1	0.01			03/07/13 18:32	PNS
	2,4,6-Tribromophenol(surr)	39.1	%	1	19-122			03/07/13 18:32	PNS
	2-Fluorobiphenyl(surr)	63.1	%	1	30-115			03/07/13 18:32	PNS
	2-Fluorophenol(surr)	6.65	%	1	15-115		S2	03/07/13 18:32	PNS
	Nitrobenzene-d5(surr)	61.9	%	1	23-120			03/07/13 18:32	PNS
	Phenol-d6(surr)	3.83	%	1	10-130		S2	03/07/13 18:32	PNS
	p-Terphenyl-d14(surr)	58.2	%	1	18-137			03/07/13 18:32	PNS
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12[1]	BRL	mg/L	1	1.00			03/08/13 15:45	JYS
	>C12-C28[1]	BRL	mg/L	1	2.48			03/08/13 15:45	JYS
	>C28-C35[1]	BRL	mg/L	1	1.88			03/08/13 15:45	JYS
	Total C6-C35	BRL	mg/L	1				03/08/13 15:45	JYS
	Chlorooctadecane(surr)	95.3	%	1	53-122			03/08/13 15:45	JYS
	1-Chlorooctane(surr)	108	%	1	60-120			03/08/13 15:45	JYS

[1]-Parameter not available for accreditation

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Total Metals - Mercury** **Method :** **EPA 245.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030557 **Created Date :** 03/05/13 **Created By :** PRKasar

Samples in This QC Batch : 13021286.02,06

Digestion : PB13030539 **Prep Method :** EPA 245.1 **Prep Date :** 03/05/13 09:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0002		

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
Mercury	0.005	0.0053	106	0.005	0.0047	94	12	35	80-120	

QC Type: MS and MSD
QC Sample ID: 13021313.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0055	109						80-120	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Total Recoverable Metals** **Method :** **EPA 200.7** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030639 **Created Date :** 03/06/13 **Created By :** Ggorane

Samples in This QC Batch : 13021286.02,06

Digestion : PB13030626 **Prep Method :** EPA 200.7 **Prep Date :** 03/06/13 08:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.01		
Barium	7440-39-3	BRL	mg/L	1	0.01		
Cadmium	7440-43-9	BRL	mg/L	1	0.01		
Chromium	7440-47-3	BRL	mg/L	1	0.01		
Lead	7439-92-1	BRL	mg/L	1	0.01		
Selenium	7782-49-2	BRL	mg/L	1	0.05		
Silver	7440-22-4	BRL	mg/L	1	0.01		

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
Arsenic	1	1.000	100	1	0.999	99.9	0.1	20	85-115	
Barium	1	1.026	103	1	1.040	104	1.4	20	85-115	
Cadmium	1	0.989	98.9	1	0.987	98.7	0.1	20	85-115	
Chromium	1	1.003	100	1	0.997	99.7	0.6	20	85-115	
Lead	1	0.995	99.5	1	0.993	99.3	0.2	20	85-115	
Selenium	1	0.996	99.6	1	0.990	99	0.6	20	85-115	
Silver	1	1.011	101	1	1.018	102	0.7	20	85-115	

QC Type: MS and MSD
QC Sample ID: 13030114.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	1	1.067	107						75-125	
Barium	0.098	1	1.119	102						75-125	
Cadmium	BRL	1	1.020	102						75-125	
Chromium	BRL	1	0.991	99.1						75-125	
Lead	BRL	1	0.967	96.7						75-125	
Selenium	BRL	1	1.044	104						75-125	
Silver	BRL	1	1.036	104						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030702 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.01,03,04,05

Extraction : PB13030646 **Prep Method :** SW-846 3550B **Prep Date :** 03/06/13 08:00 **Prep By :** Msoria

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/Kg	1	0.333		
1,2-Dichlorobenzene	95-50-1	BRL	mg/Kg	1	0.333		
1,3-Dichlorobenzene	541-73-1	BRL	mg/Kg	1	0.333		
1,4-Dichlorobenzene	106-46-7	BRL	mg/Kg	1	0.333		
2,4,5-Trichlorophenol	95-95-4	BRL	mg/Kg	1	0.333		
2,4,6-Trichlorophenol	88-06-2	BRL	mg/Kg	1	0.333		
2,4-Dichlorophenol	120-83-2	BRL	mg/Kg	1	0.333		
2,4-Dimethylphenol	105-67-9	BRL	mg/Kg	1	0.333		
2,4-Dinitrophenol	51-28-5	BRL	mg/Kg	1	1		
2,4-Dinitrotoluene	121-14-2	BRL	mg/Kg	1	0.333		
2,6-Dinitrotoluene	606-20-2	BRL	mg/Kg	1	0.333		
2-Chloronaphthalene	91-58-7	BRL	mg/Kg	1	0.333		
2-Chlorophenol	95-57-8	BRL	mg/Kg	1	0.333		
2-Methylnaphthalene	91-57-6	BRL	mg/Kg	1	0.333		
2-Methylphenol	95-48-7	BRL	mg/Kg	1	0.333		
2-Nitroaniline	88-74-4	BRL	mg/Kg	1	0.333		
2-Nitrophenol	88-75-5	BRL	mg/Kg	1	0.333		
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/Kg	1	0.667		
3,3-Dichlorobenzidine	91-94-1	BRL	mg/Kg	1	0.34		
3-Nitroaniline	99-09-2	BRL	mg/Kg	1	0.333		
4,6-Dinitro-2-methylphenol	534-52-1	BRL	mg/Kg	1	0.333		
4-Bromophenyl phenyl ethe	101-55-3	BRL	mg/Kg	1	0.333		
4-Chloro-3-methylphenol	59-50-7	BRL	mg/Kg	1	0.333		
4-Chloroaniline	106-47-8	BRL	mg/Kg	1	0.333		
4-Chlorophenyl pheny ether	7005-72-3	BRL	mg/Kg	1	0.333		
4-Nitroaniline	100-01-6	BRL	mg/Kg	1	0.333		
4-Nitrophenol	100-02-7	BRL	mg/Kg	1	0.333		
Acenaphthene	83-32-9	BRL	mg/Kg	1	0.333		
Acenaphthylene	208-96-8	BRL	mg/Kg	1	0.333		
Aniline	62-53-3	BRL	mg/Kg	1	0.333		
Anthracene	120-12-7	BRL	mg/Kg	1	0.333		
Azobenzene	103-33-3	BRL	mg/Kg	1	0.333		
Benzidine	92-87-5	BRL	mg/Kg	1	2		
Benzo(a)anthracene	56-55-3	BRL	mg/Kg	1	0.333		
Benzo(a)pyrene	50-32-8	BRL	mg/Kg	1	0.333		
Benzo(b)fluoranthene	205-99-2	BRL	mg/Kg	1	0.333		
Benzo(g,h,i)perylene	191-24-2	BRL	mg/Kg	1	0.4		
Benzo(k)fluoranthene	207-08-9	BRL	mg/Kg	1	0.333		
Benzoic acid	65-85-0	BRL	mg/Kg	1	1		
Benzyl alcohol	100-51-6	BRL	mg/Kg	1	0.333		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030702 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.01,03,04,05

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Bis(2-chloroethoxy) methan	111-91-1	BRL	mg/Kg	1	0.333		
Bis(2-chloroethyl) ether	111-44-4	BRL	mg/Kg	1	0.333		
Bis(2-chloroisopropyl) ether	108-60-1	BRL	mg/Kg	1	0.5		
Bis(2-ethylhexyl)phthalate	117-81-7	BRL	mg/Kg	1	1		
Butyl benzyl phthalate	85-68-7	BRL	mg/Kg	1	0.333		
Carbazole	86-74-8	BRL	mg/Kg	1	0.333		
Chrysene	218-01-9	BRL	mg/Kg	1	0.333		
Dibenzo(a,h)anthracene	53-70-3	BRL	mg/Kg	1	0.333		
Dibenzofuran	132-64-9	BRL	mg/Kg	1	0.333		
Diethyl phthalate	84-66-2	BRL	mg/Kg	1	0.333		
Dimethyl phthalate	131-11-3	BRL	mg/Kg	1	0.333		
Di-n-butyl phthalate	84-74-2	BRL	mg/Kg	1	0.333		
Di-n-octyl Phthalate	117-84-0	BRL	mg/Kg	1	0.333		
Fluoranthene	206-44-0	BRL	mg/Kg	1	0.333		
Fluorene	86-73-7	BRL	mg/Kg	1	0.333		
Hexachlorobenzene	118-74-1	BRL	mg/Kg	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	mg/Kg	1	0.333		
Hexachlorocyclopentadiene	77-47-4	BRL	mg/Kg	1	2		
Hexachloroethane	67-72-1	BRL	mg/Kg	1	0.333		
Indeno(1,2,3-cd)pyrene	193-39-5	BRL	mg/Kg	1	0.333		
Isophorone	78-59-1	BRL	mg/Kg	1	0.333		
Naphthalene	91-20-3	BRL	mg/Kg	1	0.333		
Nitrobenzene	98-95-3	BRL	mg/Kg	1	0.333		
N-Nitrosodimethylamine	62-75-9	BRL	mg/Kg	1	0.333		
N-nitroso-di-n-propylamine	621-64-7	BRL	mg/Kg	1	0.333		
N-Nitrosodiphenylamine	86-30-6	BRL	mg/Kg	1	0.333		
Pentachlorophenol	87-86-5	BRL	mg/Kg	1	0.333		
Phenanthrene	85-01-8	BRL	mg/Kg	1	0.333		
Phenol	108-95-2	BRL	mg/Kg	1	0.333		
Pyrene	129-00-0	BRL	mg/Kg	1	0.333		
Pyridine	110-86-1	BRL	mg/Kg	1	1		
2-Fluorophenol(surr)	367-12-4	74.7	%	1	20-115		
Phenol-d6(surr)	13127-88-3	81.8	%	1	15-120		
Nitrobenzene-d5(surr)	4165-60-0	81.5	%	1	20-120		
2-Fluorobiphenyl(surr)	132-60-8	81.9	%	1	30-115		
2,4,6-Tribromophenol(surr)	118-79-6	88.5	%	1	10-120		
p-Terphenyl-d14(surr)	1718-51-0	108	%	1	30-140		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030702 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.01,03,04,05

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
1,2,4-Trichlorobenzene	1.67	1.43	85.6	1.67	1.43	85.6	0.0	35	32-126	
1,2-Dichlorobenzene	1.67	1.38	82.6	1.67	1.42	85	2.9	35	34-118	
1,3-Dichlorobenzene	1.67	1.37	82	1.67	1.41	84.4	2.9	35	34-118	
1,4-Dichlorobenzene	1.67	1.38	82.6	1.67	1.42	85	2.9	35	35-115	
2,4,5-Trichlorophenol	1.67	1.44	86.2	1.67	1.47	88	2.1	35	35-124	
2,4,6-Trichlorophenol	1.67	1.44	86.2	1.67	1.47	88	2.1	35	35-123	
2,4-Dichlorophenol	1.67	1.46	87.4	1.67	1.49	89.2	2	35	31-124	
2,4-Dimethylphenol	1.67	1.4	83.8	1.67	1.44	86.2	2.8	35	29-129	
2,4-Dinitrophenol	1.67	0.809	48.4	1.67	0.806	48.3	0.4	35	D-94	
2,4-Dinitrotoluene	1.67	1.39	83.2	1.67	1.38	82.6	0.7	35	42-134	
2,6-Dinitrotoluene	1.67	1.42	85	1.67	1.42	85	0.0	35	37-128	
2-Chloronaphthalene	1.67	1.43	85.6	1.67	1.48	88.6	3.4	35	37-124	
2-Chlorophenol	1.67	1.41	84.4	1.67	1.41	84.4	0.0	35	26-119	
2-Methylnaphthalene	1.67	1.42	85	1.67	1.45	86.8	2.1	35	28-128	
2-Methylphenol	1.67	1.41	84.4	1.67	1.48	88.6	4.8	35	26-125	
2-Nitroaniline	1.67	1.45	86.8	1.67	1.5	89.8	3.4	35	45-135	
2-Nitrophenol	1.67	1.46	87.4	1.67	1.44	86.2	1.4	35	25-123	
3- & 4-Methylphenols	3.33	2.83	85	3.33	2.94	88.3	3.8	35	29-118	
3,3-Dichlorobenzidine	2.67	2.86	107	2.67	2.87	107	0.3	35	45-135	
3-Nitroaniline	1.67	1.44	86.2	1.67	1.49	89.2	3.4	35	45-135	
4,6-Dinitro-2-methylphenol	1.67	1.31	78.4	1.67	1.34	80.2	2.3	35	8-129	
4-Bromophenyl phenyl ethe	1.67	1.44	86.2	1.67	1.44	86.2	0.0	35	50-122	
4-Chloro-3-methylphenol	1.67	1.42	85	1.67	1.43	85.6	0.7	35	40-127	
4-Chloroaniline	1.67	1.43	85.6	1.67	1.41	84.4	1.4	35	45-135	
4-Chlorophenyl pheny ether	1.67	1.4	83.8	1.67	1.43	85.6	2.1	35	47-125	
4-Nitroaniline	1.67	1.43	85.6	1.67	1.42	85	0.7	35	45-135	
4-Nitrophenol	1.67	0.578	34.6	1.67	0.739	44.3	24.4	35	14-138	
Acenaphthene	1.67	1.43	85.6	1.67	1.44	86.2	0.7	35	45-125	
Acenaphthylene	1.67	1.41	84.4	1.67	1.45	86.8	2.8	35	43-118	
Aniline	1.67	1.55	92.8	1.67	1.47	88	5.3	35	28.5-114	
Anthracene	1.67	1.46	87.4	1.67	1.46	87.4	0.0	35	53-119	
Azobenzene	1.67	1.53	91.6	1.67	1.51	90.4	1.3	35	45-135	
Benzidine	1.67	2.21	132	2.67	2.21	82.8	0.0	35	D-135	
Benzo(a)anthracene	1.67	1.46	87.4	1.67	1.47	88	0.7	35	43-131	
Benzo(a)pyrene	1.67	1.43	85.6	1.67	1.48	88.6	3.4	35	43-126	
Benzo(b)fluoranthene	1.67	1.39	83.2	1.67	1.44	86.2	3.5	35	36-126	
Benzo(g,h,i)perylene	1.67	1.42	85	1.67	1.46	87.4	2.8	35	27-126	
Benzo(k)fluoranthene	1.67	1.4	83.8	1.67	1.45	86.8	3.5	35	36-134	
Benzoic acid	1.67	0.386	23.1	1.33	0.338	25.4	13.3	35	D-135	
Benzyl alcohol	1.67	1.33	79.6	1.67	1.48	88.6	10.7	35	45-135	
Bis(2-chloroethoxy) methan	1.67	1.47	88	1.67	1.52	91	3.3	35	33-125	
Bis(2-chloroethyl) ether	1.67	1.56	93.4	1.67	1.29	77.2	18.9	35	30-125	
Bis(2-chloroisopropyl) ether	1.67	1.47	88	1.67	1.48	88.6	0.7	35	27-122	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030702 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.01,03,04,05

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
Bis(2-ethylhexyl)phthalate	1.67	1.48	88.6	1.67	1.44	86.2	2.7	35	8-158	
Butyl benzyl phthalate	1.67	1.48	88.6	1.67	1.49	89.2	0.7	35	50-139	
Carbazole	1.67	1.47	88	1.67	1.45	86.8	1.4	35	45-135	
Chrysene	1.67	1.5	89.8	1.67	1.52	91	1.3	35	42-131	
Dibenzo(a,h)anthracene	1.67	1.44	86.2	1.67	1.47	88	2.1	35	33-122	
Dibenzofuran	1.67	1.42	85	1.67	1.49	89.2	4.8	35	22-122	
Diethyl phthalate	1.67	1.45	86.8	1.67	1.49	89.2	2.7	35	48-126	
Dimethyl phthalate	1.67	1.46	87.4	1.67	1.49	89.2	2	35	48-122	
Di-n-butyl phthalate	1.67	1.57	94	1.67	1.57	94	0.0	35	51-126	
Di-n-octyl Phthalate	1.67	1.52	91	1.67	1.48	88.6	2.7	35	50-124	
Fluoranthene	1.67	1.44	86.2	1.67	1.46	87.4	1.4	35	51-125	
Fluorene	1.67	1.43	85.6	1.67	1.44	86.2	0.7	35	48-123	
Hexachlorobenzene	1.67	1.45	86.8	1.67	1.45	86.8	0.0	35	35-130	
Hexachlorobutadiene	1.67	1.39	83.2	1.67	1.45	86.8	4.2	35	31-115	
Hexachlorocyclopentadiene	1.67	1.05	62.9	1.67	1.09	65.3	3.7	35	D-116	
Hexachloroethane	1.67	1.41	84.4	1.67	1.45	86.8	2.8	35	36-114	
Indeno(1,2,3-cd)pyrene	1.67	1.42	85	1.67	1.45	86.8	2.1	35	31-135	
Isophorone	1.67	1.44	86.2	1.67	1.5	89.8	4.1	35	30-126	
Naphthalene	1.67	1.41	84.4	1.67	1.42	85	0.7	35	32-124	
Nitrobenzene	1.67	1.51	90.4	1.67	1.53	91.6	1.3	35	29-126	
N-Nitrosodimethylamine	1.67	1.38	82.6	1.67	1.41	84.4	2.2	35	21-121	
N-nitroso-di-n-propylamine	1.67	1.46	87.4	1.67	1.55	92.8	6	35	30-128	
N-Nitrosodiphenylamine	1.67	1.43	85.6	1.67	1.48	88.6	3.4	35	45-135	
Pentachlorophenol	1.67	1.1	65.9	1.67	1.32	79	18.2	35	36-117	
Phenanthrene	1.67	1.46	87.4	1.67	1.49	89.2	2	35	45-125	
Phenol	1.67	1.36	81.4	1.67	1.37	82	0.7	35	22-118	
Pyrene	1.67	1.46	87.4	1.67	1.48	88.6	1.4	35	32-138	
Pyridine	1.67	1.18	70.7	1.67	1.17	70.1	0.9	35	D-110	

QC Type: MS and MSD
QC Sample ID: 13021286.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,2,4-Trichlorobenzene	BRL	1.67	1.25	74.9						32-126	
1,2-Dichlorobenzene	BRL	1.67	1.24	74.3						34-118	
1,3-Dichlorobenzene	BRL	1.67	1.2	71.9						34-118	
1,4-Dichlorobenzene	BRL	1.67	1.19	71.3						35-115	
2,4,5-Trichlorophenol	BRL	1.67	1.24	74.3						35-124	
2,4,6-Trichlorophenol	BRL	1.67	1.18	70.7						35-123	
2,4-Dichlorophenol	BRL	1.67	1.29	77.2						31-124	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030702 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.01,03,04,05

QC Type: MS and MSD
QC Sample ID: 13021286.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4-Dimethylphenol	BRL	1.67	1.18	70.7						29-129	
2,4-Dinitrophenol	BRL	1.67	0.519	31.1						D-94	
2,4-Dinitrotoluene	BRL	1.67	1.21	72.5						42-134	
2,6-Dinitrotoluene	BRL	1.67	1.29	77.2						37-128	
2-Chloronaphthalene	BRL	1.67	1.25	74.9						37-124	
2-Chlorophenol	BRL	1.67	1.25	74.9						26-119	
2-Methylnaphthalene	BRL	1.67	1.22	73.1						28-128	
2-Methylphenol	BRL	1.67	1.24	74.3						26-125	
2-Nitroaniline	BRL	1.67	1.26	75.4						20-135	
2-Nitrophenol	BRL	1.67	1.18	70.7						25-123	
3- & 4-Methylphenols	BRL	3.33	2.38	71.5						29-118	
3,3-Dichlorobenzidine	BRL	2.67	2.22	83.1						20-135	
3-Nitroaniline	BRL	1.67	1.26	75.4						20-135	
4,6-Dinitro-2-methylphenol	BRL	1.67	1.06	63.5						8-129	
4-Bromophenyl phenyl ethe	BRL	1.67	1.27	76						50-122	
4-Chloro-3-methylphenol	BRL	1.67	1.23	73.7						40-127	
4-Chloroaniline	BRL	1.67	1.23	73.7						20-135	
4-Chlorophenyl pheny ether	BRL	1.67	1.26	75.4						47-125	
4-Nitroaniline	BRL	1.67	1.24	74.3						20-135	
4-Nitrophenol	BRL	1.67	1.14	68.3						14-138	
Acenaphthene	BRL	1.67	1.22	73.1						45-125	
Acenaphthylene	BRL	1.67	1.22	73.1						43-118	
Aniline	BRL	1.67	1.01	60.5						20-135	
Anthracene	BRL	1.67	1.25	74.9						53-119	
Azobenzene	BRL	1.67	1.27	76						20-135	
Benzidine	BRL	2.67	1.28	47.9						D-135	
Benzo(a)anthracene	BRL	1.67	1.2	71.9						43-131	
Benzo(a)pyrene	BRL	1.67	1.2	71.9						43-126	
Benzo(b)fluoranthene	BRL	1.67	1.16	69.5						36-126	
Benzo(g,h,i)perylene	BRL	1.67	1.16	69.5						27-126	
Benzo(k)fluoranthene	BRL	1.67	1.14	68.3						36-134	
Benzoic acid	BRL	1.33	BRL							D-135	M2
Benzyl alcohol	BRL	1.67	1.24	74.3						20-135	
Bis(2-chloroethoxy) methan	BRL	1.67	1.29	77.2						33-125	
Bis(2-chloroethyl) ether	BRL	1.67	1.5	89.8						30-125	
Bis(2-chloroisopropyl) ether	BRL	1.67	1.28	76.6						27-122	
Bis(2-ethylhexyl)phthalate	BRL	1.67	1.18	70.7						8-158	
Butyl benzyl phthalate	BRL	1.67	1.17	70.1						50-139	
Carbazole	BRL	1.67	1.26	75.4						20-135	
Chrysene	BRL	1.67	1.27	76						42-131	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **SW-846 8270D** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030702 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.01,03,04,05

QC Type: MS and MSD
QC Sample ID: 13021286.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Dibenzo(a,h)anthracene	BRL	1.67	1.2	71.9						33-122	
Dibenzofuran	BRL	1.67	1.25	74.9						22-122	
Diethyl phthalate	BRL	1.67	1.29	77.2						48-126	
Dimethyl phthalate	BRL	1.67	1.28	76.6						48-122	
Di-n-butyl phthalate	BRL	1.67	1.21	72.5						51-126	
Di-n-octyl Phthalate	BRL	1.67	1.23	73.7						50-124	
Fluoranthene	BRL	1.67	1.24	74.3						51-125	
Fluorene	BRL	1.67	1.25	74.9						48-123	
Hexachlorobenzene	BRL	1.67	1.3	77.8						35-130	
Hexachlorobutadiene	BRL	1.67	1.24	74.3						31-115	
Hexachlorocyclopentadiene	BRL	1.67	0.893	53.5						D-116	
Hexachloroethane	BRL	1.67	1.27	76						36-114	
Indeno(1,2,3-cd)pyrene	BRL	1.67	1.19	71.3						31-135	
Isophorone	BRL	1.67	1.24	74.3						30-126	
Naphthalene	BRL	1.67	1.22	73.1						32-124	
Nitrobenzene	BRL	1.67	1.3	77.8						29-126	
N-Nitrosodimethylamine	BRL	1.67	1.12	67.1						21-121	
N-nitroso-di-n-propylamine	BRL	1.67	1.22	73.1						30-128	
N-Nitrosodiphenylamine	BRL	1.67	1.28	76.6						20-135	
Pentachlorophenol	BRL	1.67	0.97	58.1						36-117	
Phenanthrene	BRL	1.67	1.23	73.7						45-125	
Phenol	BRL	1.67	1.15	68.9						22-118	
Pyrene	BRL	1.67	1.25	74.9						32-138	
Pyridine	BRL	1.67	0.977	58.5						D-110	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030704 **Created Date :** 03/06/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.06

Sample Preparation : PB13030706 **Prep Method :** EPA 624 **Prep Date :** 03/06/13 11:00 **Prep By :** Yzhang

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,1,1-Trichloroethane	71-55-6	BRL	mg/L	1	0.01		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	mg/L	1	0.005		
1,1,2-Trichloroethane	79-00-5	BRL	mg/L	1	0.005		
1,1-Dichloroethane	75-34-3	BRL	mg/L	1	0.005		
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.01		
1,2-Dibromoethane	106-93-4	BRL	mg/L	1	0.006		
1,2-Dichlorobenzene	95-50-1	BRL	mg/L	1	0.005		
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.01		
1,3-Dichlorobenzene	541-73-1	BRL	mg/L	1	0.005		
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.01		
2-Butanone	78-93-3	BRL	mg/L	1	0.005		
Benzene	71-43-2	BRL	mg/L	1	0.005		
Bromodichloromethane	75-27-4	BRL	mg/L	1	0.006		
Bromoform	75-25-2	BRL	mg/L	1	0.005		
Bromomethane	74-83-9	BRL	mg/L	1	0.005		
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.01		
Chlorobenzene	108-90-7	BRL	mg/L	1	0.01		
Chloroethane	75-00-3	BRL	mg/L	1	0.006		
Chloroform	67-66-3	BRL	mg/L	1	0.01		
Chloromethane	74-87-3	BRL	mg/L	1	0.005		
cis-1,3-Dichloropropene	10061-01-5	BRL	mg/L	1	0.006		
Dibromochloromethane	124-48-1	BRL	mg/L	1	0.01		
Ethylbenzene	100-41-4	BRL	mg/L	1	0.005		
MEK	78-93-3	BRL	mg/L	1	0.01		
Methylene chloride	75-09-2	BRL	mg/L	1	0.005		
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.01		
Toluene	108-88-3	BRL	mg/L	1	0.005		
trans-1,2-Dichloroethylene	156-60-5	BRL	mg/L	1	0.005		
trans-1,3-Dichloropropene	10061-02-6	BRL	mg/L	1	0.005		
Trichloroethylene	79-01-6	BRL	mg/L	1	0.01		
Trichlorofluoromethane	75-69-4	BRL	mg/L	1	0.005		
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.01		
Dibromofluoromethane(surr	1868-53-7	104	%	1	70-130		
1,2-Dichloroethane-d4(surr	17060-07-0	115	%	1	70-130		
Toluene-d8(surr)	2037-26-5	101	%	1	70-130		
p-Bromofluorobenzene(surr	460-00-4	120	%	1	70-130		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030704 **Created Date :** 03/06/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.06

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
1,1-Dichloroethylene	0.02	0.018	90	0.02	0.017	85	5.7	30	75.5-124	
Benzene	0.02	0.018	90	0.02	0.018	90	0.000	30	80-120	
Chlorobenzene	0.02	0.018	90	0.02	0.018	90	0.000	30	80-120	
Toluene	0.02	0.018	90	0.02	0.018	90	0.000	30	77.1-121	
Trichloroethylene	0.02	0.018	90	0.02	0.019	95	5.4	30	80-120	
1,1,1-Trichloroethane	0.02	0.02	100	0.02	0.02	100	0.000	30	80-120	
1,1,2,2-Tetrachloroethane	0.02	0.019	95	0.02	0.019	95	0.000	30	80-120	
1,1,2-Trichloroethane	0.02	0.018	90	0.02	0.018	90	0.000	30	80-120	
1,1-Dichloroethane	0.02	0.019	95	0.02	0.019	95	0.000	30	77.6-124	
1,2-Dibromoethane	0.02	0.018	90	0.02	0.018	90	0.000	30	80-120	
1,2-Dichlorobenzene	0.02	0.018	90	0.02	0.018	90	0.000	30	83.2-121	
1,2-Dichloroethane	0.02	0.021	105	0.02	0.021	105	0.000	30	74.5-129	
1,3-Dichlorobenzene	0.02	0.017	85	0.02	0.018	90	5.7	30	80-120	
1,4-Dichlorobenzene	0.02	0.018	90	0.02	0.018	90	0.000	30	80-120	
MEK	0.02	0.023	115	0.02	0.023	115	0.000	30	47.5-159	
Bromodichloromethane	0.02	0.02	100	0.02	0.02	100	0.000	30	80-119	
Bromoform	0.02	0.018	90	0.02	0.018	90	0.000	30	78.8-127	
Bromomethane	0.02	0.018	90	0.02	0.019	95	5.4	30	53-138	
Carbon tetrachloride	0.02	0.019	95	0.02	0.019	95	0.000	30	70-136	
Chloroethane	0.02	0.02	100	0.02	0.02	100	0.000	30	75.6-128	
Chloroform	0.02	0.02	100	0.02	0.02	100	0.000	30	79-123	
Chloromethane	0.02	0.019	95	0.02	0.019	95	0.000	30	69.6-125	
cis-1,3-Dichloropropene	0.02	0.019	95	0.02	0.019	95	0.000	30	80-120	
Dibromochloromethane	0.02	0.018	90	0.02	0.018	90	0.000	30	82.8-117	
Ethylbenzene	0.02	0.019	95	0.02	0.018	90	5.4	30	80-120	
Methylene chloride	0.02	0.017	85	0.02	0.017	85	0.000	30	69.4-131	
Tetrachloroethylene	0.02	0.018	90	0.02	0.018	90	0.000	30	40-168	
trans-1,2-Dichloroethylene	0.02	0.019	95	0.02	0.019	95	0.000	30	77.5-122	
trans-1,3-Dichloropropene	0.02	0.02	100	0.02	0.019	95	5.1	30	81.5-113	
Trichlorofluoromethane	0.02	0.022	110	0.02	0.022	110	0.000	30	80-132	
Vinyl Chloride	0.02	0.022	110	0.02	0.021	105	4.7	30	71.1-127	
2-Butanone	0.02	0.023	115	0.02	0.023	115	0.000	30	75-125	

QC Type: MS and MSD
QC Sample ID: 13021286.06

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-Dichloroethylene	BRL	0.02	0.015	75						81-130	M9
Benzene	BRL	0.02	0.017	85						84-132	
Chlorobenzene	BRL	0.02	0.018	90						72-132	
Toluene	BRL	0.02	0.018	90						72-136	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030704 **Created Date :** 03/06/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.06

QC Type: MS and MSD
QC Sample ID: 13021286.06

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Trichloroethylene	BRL	0.02	0.018	90						75-136	
1,1,1-Trichloroethane	BRL	0.02	0.017	85						78-131	
1,1,2,2-Tetrachloroethane	BRL	0.02	0.017	85						66-145	
1,1,2-Trichloroethane	BRL	0.02	0.017	85						69-138	
1,1-Dichloroethane	BRL	0.02	0.016	80						84-128	M9
1,2-Dibromoethane		0.02	0.018							68-139	
1,2-Dichlorobenzene	BRL	0.02	0.018	90						73-138	
1,2-Dichloroethane	BRL	0.02	0.017	85						65-154	
1,3-Dichlorobenzene	BRL	0.02	0.018	90						74-136	
1,4-Dichlorobenzene	BRL	0.02	0.018	90						71-136	
MEK		0.02	0.021							43-160	
Bromodichloromethane	BRL	0.02	0.017	85						83-134	
Bromoform	BRL	0.02	0.017	85						68-135	
Bromomethane	BRL	0.02	0.019	95						65-144	
Carbon tetrachloride	BRL	0.02	0.017	85						70-136	
Chloroethane	BRL	0.02	0.02	100						76-147	
Chloroform	BRL	0.02	0.017	85						68-130	
Chloromethane	BRL	0.02	0.02	100						73-127	
cis-1,3-Dichloropropene	BRL	0.02	0.017	85						81-126	
Dibromochloromethane	BRL	0.02	0.017	85						68-139	
Ethylbenzene	BRL	0.02	0.018	90						75-133	
Methylene chloride	BRL	0.02	0.017	85						74-126	
Tetrachloroethylene	BRL	0.02	0.018	90						65-138	
trans-1,2-Dichloroethylene	BRL	0.02	0.017	85						73-130	
trans-1,3-Dichloropropene	BRL	0.02	0.017	85						73-129	
Trichlorofluoromethane	BRL	0.02	0.018	90						78-143	
Vinyl Chloride	BRL	0.02	0.02	100						58-135	
2-Butanone	BRL	0.02	0.021	105						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030710 **Created Date :** 02/28/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.01,03,04,05

Sample Preparation : PB13030708 **Prep Method :** SW-846 5035A **Prep Date :** 02/28/13 14:00 **Prep By :** Yzhang

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 : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030710 **Created Date :** 02/28/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.01,03,04,05

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	100	%	1	70-130		
1,2-Dichloroethane-d4(surr	17060-07-0	103	%	1	70-130		
Toluene-d8(surr)	2037-26-5	100	%	1	70-130		
p-Bromofluorobenzene(surr	460-00-4	98.9	%	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 CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.019	95	0.02	0.02	100	5.1	30	71.4-131	
1,1,1-Trichloroethane	0.02	0.02	100	0.02	0.021	105	4.9	30	69.6-140	
1,1,2,2-Tetrachloroethane	0.02	0.02	100	0.02	0.021	105	4.9	30	66.6-128	
1,1,2-Trichloroethane	0.02	0.021	105	0.02	0.022	110	4.6	30	72.8-125	
1,1-Dichloroethane	0.02	0.022	110	0.02	0.022	110	0	30	72.7-129	
1,1-Dichloroethylene	0.02	0.023	115	0.02	0.024	120	4.3	30	71.4-131	
1,1-Dichloropropene	0.02	0.02	100	0.02	0.02	100	0	30	75.9-132	
1,2,3-trichlorobenzene	0.02	0.02	100	0.02	0.019	95	5.1	30	56.7-153	
1,2,3-Trichloropropane	0.02	0.02	100	0.02	0.02	100	0	30	61.6-138	
1,2,4-Trichlorobenzene	0.02	0.022	110	0.02	0.021	105	4.7	30	55.9-150	
1,2,4-Trimethylbenzene	0.02	0.019	95	0.02	0.02	100	5.1	30	71.1-131	
1,2-Dibromo-3-chloropropa	0.02	0.022	110	0.02	0.024	120	8.7	30	52.4-150	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030710 **Created Date :** 02/28/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.01,03,04,05

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	0.02	100	0.02	0.02	100	0	30	72.9-125	
1,2-Dichlorobenzene	0.02	0.02	100	0.02	0.02	100	0	30	76.1-126	
1,2-Dichloroethane	0.02	0.019	95	0.02	0.019	95	0	30	66.4-134	
1,2-Dichloropropane	0.02	0.02	100	0.02	0.019	95	5.1	30	70.2-128	
1,3,5-Trimethylbenzene	0.02	0.019	95	0.02	0.019	95	0	30	75.1-127	
1,3-Dichlorobenzene	0.02	0.02	100	0.02	0.02	100	0	30	73.9-126	
1,3-Dichloropropane	0.02	0.019	95	0.02	0.02	100	5.1	30	68.3-124	
1,4-Dichlorobenzene	0.02	0.019	95	0.02	0.02	100	5.1	30	72.3-127	
2,2-Dichloropropane	0.02	0.022	110	0.02	0.021	105	4.7	30	68.5-138	
2-Chlorotoluene	0.02	0.02	100	0.02	0.02	100	0	30	71.7-128	
4-Chlorotoluene	0.02	0.02	100	0.02	0.02	100	0	30	72.2-126	
4-Isopropyltoluene	0.02	0.02	100	0.02	0.02	100	0	30	77.5-125	
Benzene	0.02	0.019	95	0.02	0.02	100	5.1	30	74-126	
Bromobenzene	0.02	0.019	95	0.02	0.019	95	0	30	73.3-129	
Bromochloromethane	0.02	0.021	105	0.02	0.02	100	4.9	30	68.8-131	
Bromodichloromethane	0.02	0.019	95	0.02	0.019	95	0	30	69-135	
Bromoform	0.02	0.019	95	0.02	0.019	95	0	30	62-146	
Bromomethane	0.02	0.018	90	0.02	0.017	85	5.7	30	58.7-139	
Carbon tetrachloride	0.02	0.019	95	0.02	0.019	95	0	30	68.7-135	
Chlorobenzene	0.02	0.02	100	0.02	0.02	100	0	30	73.3-129	
Chloroethane	0.02	0.024	120	0.02	0.025	125	4.1	30	66.2-129	
Chloroform	0.02	0.02	100	0.02	0.021	105	4.9	30	73.7-134	
Chloromethane	0.02	0.022	110	0.02	0.023	115	4.4	30	51.4-135	
cis-1,2-Dichloroethylene	0.02	0.02	100	0.02	0.02	100	0	30	72.4-132	
cis-1,3-Dichloropropene	0.02	0.02	100	0.02	0.02	100	0	30	67.7-134	
Dibromochloromethane	0.02	0.02	100	0.02	0.02	100	0	30	73.2-126	
Dibromomethane	0.02	0.02	100	0.02	0.019	95	5.1	30	69.9-134	
Dichlorodifluoromethane	0.02	0.024	120	0.02	0.026	130	8	30	36.8-144	
Ethylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	72.2-128	
Isopropylbenzene	0.02	0.02	100	0.02	0.021	105	4.9	30	71.2-131	
m- & p-Xylenes	0.04	0.039	97.5	0.04	0.041	103	5	30	70.7-131	
MEK	0.02	0.025	125	0.02	0.025	125	0	30	52.5-152	
Methylene chloride	0.02	0.021	105	0.02	0.021	105	0	30	70.6-129	
Naphthalene	0.02	0.02	100	0.02	0.019	95	5.1	30	60.7-145	
n-Butylbenzene	0.02	0.02	100	0.02	0.021	105	4.9	30	66.5-136	
n-Propylbenzene	0.02	0.02	100	0.02	0.021	105	4.9	30	73.3-126	
o-Xylene	0.02	0.019	95	0.02	0.021	105	10	30	71.6-130	
sec-Butylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	77.9-124	
Styrene	0.02	0.019	95	0.02	0.02	100	5.1	30	71.1-131	
t-butylbenzene	0.02	0.019	95	0.02	0.021	105	10	30	74.4-130	
Tetrachloroethylene	0.02	0.018	90	0.02	0.019	95	5.4	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 : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030710 **Created Date :** 02/28/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.01,03,04,05

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	0.022	110	0.02	0.022	110	0	30	80-120	
trans-1,3-Dichloropropene	0.02	0.02	100	0.02	0.021	105	4.9	30	71.5-124	
Trichloroethylene	0.02	0.018	90	0.02	0.02	100	10.5	30	69.2-133	
Trichlorofluoromethane	0.02	0.023	115	0.02	0.024	120	4.3	30	63.9-140	
Vinyl Chloride	0.02	0.023	115	0.02	0.025	125	8.3	30	40.9-159	

QC Type: MS and MSD
QC Sample ID: 13021286.05

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	0.017	89.5						71.4-131	
1,1,1-Trichloroethane	BRL	0.019	0.019	100						69.6-140	
1,1,2,2-Tetrachloroethane	BRL	0.019	0.017	89.5						66.6-128	
1,1,2-Trichloroethane	BRL	0.019	0.019	100						72.8-125	
1,1-Dichloroethane	BRL	0.019	0.02	105						72.7-129	
1,1-Dichloroethylene	BRL	0.019	0.022	116						71.4-131	
1,1-Dichloropropene	BRL	0.019	0.018	94.7						75.9-132	
1,2,3-trichlorobenzene	BRL	0.019	0.013	68.4						56.7-153	
1,2,3-Trichloropropane	BRL	0.019	0.019	100						61.6-138	
1,2,4-Trichlorobenzene	BRL	0.019	0.012	63.2						55.9-150	
1,2,4-Trimethylbenzene	BRL	0.019	0.017	89.5						71.1-131	
1,2-Dibromo-3-chloropropa	BRL	0.019	0.019	100						52.4-150	
1,2-Dibromoethane	BRL	0.019	0.017	89.5						72.9-125	
1,2-Dichlorobenzene	BRL	0.019	0.016	84.2						76.1-126	
1,2-Dichloroethane	BRL	0.019	0.017	89.5						66.4-134	
1,2-Dichloropropane	BRL	0.019	0.017	89.5						70.2-128	
1,3,5-Trimethylbenzene	BRL	0.019	0.017	89.5						75.1-127	
1,3-Dichlorobenzene	BRL	0.019	0.017	89.5						73.9-126	
1,3-Dichloropropane	BRL	0.019	0.017	89.5						68.3-124	
1,4-Dichlorobenzene	BRL	0.019	0.016	84.2						72.3-127	
2,2-Dichloropropane	BRL	0.019	0.018	94.7						68.5-138	
2-Chlorotoluene	BRL	0.019	0.018	94.7						71.7-128	
4-Chlorotoluene	BRL	0.019	0.017	89.5						72.2-126	
4-Isopropyltoluene	BRL	0.019	0.016	84.2						77.5-125	
Benzene	BRL	0.019	0.018	94.7						74-126	
Bromobenzene	BRL	0.019	0.016	84.2						73.3-129	
Bromochloromethane	BRL	0.019	0.019	100						68.8-131	
Bromodichloromethane	BRL	0.019	0.017	89.5						69-135	
Bromoform	BRL	0.019	0.016	84.2						62-146	
Bromomethane	BRL	0.019	0.016	84.2						58.7-139	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030710 **Created Date :** 02/28/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.01,03,04,05

QC Type: MS and MSD
QC Sample ID: 13021286.05

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	0.017	89.5						68.7-135	
Chlorobenzene	BRL	0.019	0.018	94.7						73.3-129	
Chloroethane	BRL	0.019	0.024	126						66.2-129	
Chloroform	BRL	0.019	0.019	100						73.7-134	
Chloromethane	BRL	0.019	0.021	111						51.4-135	
cis-1,2-Dichloroethylene	BRL	0.019	0.018	94.7						72.4-132	
cis-1,3-Dichloropropene	BRL	0.019	0.018	94.7						67.7-134	
Dibromochloromethane	BRL	0.019	0.017	89.5						73.2-126	
Dibromomethane	BRL	0.019	0.017	89.5						69.9-134	
Dichlorodifluoromethane	BRL	0.019	0.029	153						36.8-144	M8
Ethylbenzene	BRL	0.019	0.018	94.7						72.2-128	
Isopropylbenzene	BRL	0.019	0.017	89.5						71.2-131	
m- & p-Xylenes	BRL	0.039	0.035	89.7						70.7-131	
MEK	BRL	0.019	0.024	126						52.5-152	
Methylene chloride	BRL	0.019	0.019	100						70.6-129	
Naphthalene	BRL	0.019	0.014	73.7						60.7-145	
n-Butylbenzene	BRL	0.019	0.016	84.2						66.5-136	
n-Propylbenzene	BRL	0.019	0.018	94.7						73.3-126	
o-Xylene	BRL	0.019	0.017	89.5						71.6-130	
sec-Butylbenzene	BRL	0.019	0.017	89.5						77.9-124	
Styrene	BRL	0.019	0.016	84.2						71.1-131	
t-butylbenzene	BRL	0.019	0.018	94.7						74.4-130	
Tetrachloroethylene	BRL	0.019	0.022	116						62.6-157	
Toluene	BRL	0.019	0.018	94.7						73.3-127	
trans-1,2-Dichloroethylene	BRL	0.019	0.02	105						70-130	
trans-1,3-Dichloropropene	BRL	0.019	0.017	89.5						71.5-124	
Trichloroethylene	BRL	0.019	0.018	94.7						69.2-133	
Trichlorofluoromethane	BRL	0.019	0.022	116						63.9-140	
Vinyl Chloride	BRL	0.019	0.023	121						40.9-159	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030748 **Created Date :** 03/07/13 **Created By :** JShah

Samples in This QC Batch : 13021286.02

Sample Preparation : PB13030740 **Prep Method :** TX 1005 **Prep Date :** 03/07/13 08:05 **Prep By :** JShah

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12	TPH-1005-1	BRL	mg/L	1	1		
>C12-C28	TPH-1005-2	BRL	mg/L	1	2.48		
>C28-C35	TPH-1005-4	BRL	mg/L	1	1.88		
Total C6-C35		BRL	mg/L	1			
Chlorooctadecane(surr)	3386-33-2	76	%	1	53-122		
1-Chlorooctane(surr)	111-85-3	79.1	%	1	60-120		

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	43	48.6	113	43	44.1	103	9.7	20	75-125	
>C12-C28	43	48.9	114	43	46.9	109	4.2	20	75-125	
>C28-C35	43	47.8	111	43	41.9	97.4	13.2	20	75-125	

QC Type: MS and MSD
QC Sample ID: 13030249.01

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	0.514	40.6	49.4	120						75-125	
>C12-C28	0.91	40.6	51.1	124						75-125	
>C28-C35	0.58	40.6	48.4	118						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **EPA 625** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030760 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.02,06

Extraction : PB13030726 **Prep Method :** EPA 625 **Prep Date :** 03/06/13 12:00 **Prep By :** Msoria

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/L	1	0.01		
1,2-Dichlorobenzene	95-50-1	BRL	mg/L	1	0.01		
1,3-Dichlorobenzene	541-73-1	BRL	mg/L	1	0.01		
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.01		
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.01		
2,4-Dichlorophenol	120-83-2	BRL	mg/L	1	0.01		
2,4-Dimethylphenol	105-67-9	BRL	mg/L	1	0.01		
2,4-Dinitrophenol	51-28-5	BRL	mg/L	1	0.05		
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.01		
2,6-Dinitrotoluene	606-20-2	BRL	mg/L	1	0.01		
2-Chloronaphthalene	91-58-7	BRL	mg/L	1	0.01		
2-Chlorophenol	95-57-8	BRL	mg/L	1	0.01		
2-Nitrophenol	88-75-5	BRL	mg/L	1	0.01		
3,3-Dichlorobenzidine	91-94-1	BRL	mg/L	1	0.05		
4,6-Dinitro-2-methylphenol	534-52-1	BRL	mg/L	1	0.05		
4-Bromophenyl phenyl ethe	101-55-3	BRL	mg/L	1	0.01		
4-Chloro-3-methylphenol	59-50-7	BRL	mg/L	1	0.01		
4-Chlorophenyl pheny ether	7005-72-3	BRL	mg/L	1	0.01		
4-Nitrophenol	100-02-7	BRL	mg/L	1	0.05		
Acenaphthene	83-32-9	BRL	mg/L	1	0.01		
Acenaphthylene	208-96-8	BRL	mg/L	1	0.01		
Anthracene	120-12-7	BRL	mg/L	1	0.01		
Benzidine	92-87-5	BRL	mg/L	1	0.2		
Benzo(a)anthracene	56-55-3	BRL	mg/L	1	0.01		
Benzo(a)pyrene	50-32-8	BRL	mg/L	1	0.01		
Benzo(b)fluoranthene	205-99-2	BRL	mg/L	1	0.01		
Benzo(g,h,i)perylene	191-24-2	BRL	mg/L	1	0.01		
Benzo(k)fluoranthene	207-08-9	BRL	mg/L	1	0.01		
Bis(2-chloroethoxy) methan	111-91-1	BRL	mg/L	1	0.01		
Bis(2-chloroethyl) ether	111-44-4	BRL	mg/L	1	0.01		
Bis(2-chloroisopropyl) ether	108-60-1	BRL	mg/L	1	0.02		
Bis(2-ethylhexyl)phthalate	117-81-7	BRL	mg/L	1	0.05		
Butyl benzyl phthalate	85-68-7	BRL	mg/L	1	0.01		
Chrysene	218-01-9	BRL	mg/L	1	0.01		
Dibenzo(a,h)anthracene	53-70-3	BRL	mg/L	1	0.01		
Diethyl phthalate	84-66-2	BRL	mg/L	1	0.01		
Dimethyl phthalate	131-11-3	BRL	mg/L	1	0.01		
Di-n-butyl phthalate	84-74-2	BRL	mg/L	1	0.01		
Di-n-octyl Phthalate	117-84-0	BRL	mg/L	1	0.01		
Fluoranthene	206-44-0	BRL	mg/L	1	0.01		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **EPA 625** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030760 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.02,06

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Fluorene	86-73-7	BRL	mg/L	1	0.01		
Hexachlorobenzene	118-74-1	BRL	mg/L	1	0.01		
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.01		
Hexachlorocyclopentadiene	77-47-4	BRL	mg/L	1	0.05		
Hexachloroethane	67-72-1	BRL	mg/L	1	0.02		
Indeno(1,2,3-cd)pyrene	193-39-5	BRL	mg/L	1	0.01		
Isophorone	78-59-1	BRL	mg/L	1	0.01		
Naphthalene	91-20-3	BRL	mg/L	1	0.01		
Nitrobenzene	98-95-3	BRL	mg/L	1	0.01		
N-Nitrosodimethylamine	62-75-9	BRL	mg/L	1	0.01		
N-nitroso-di-n-propylamine	621-64-7	BRL	mg/L	1	0.01		
N-Nitrosodiphenylamine	86-30-6	BRL	mg/L	1	0.01		
Pentachlorophenol	87-86-5	BRL	mg/L	1	0.05		
Phenanthrene	85-01-8	BRL	mg/L	1	0.01		
Phenol	108-95-2	BRL	mg/L	1	0.01		
Pyrene	129-00-0	BRL	mg/L	1	0.01		
2-Fluorophenol(surr)	367-12-4	47.4	%	1	15-115		
Phenol-d6(surr)	13127-88-3	35.9	%	1	10-130		
Nitrobenzene-d5(surr)	4165-60-0	69.3	%	1	23-120		
2-Fluorobiphenyl(surr)	132-60-8	70.7	%	1	30-115		
2,4,6-Tribromophenol(surr)	118-79-6	71.2	%	1	19-122		
p-Terphenyl-d14(surr)	1718-51-0	83.9	%	1	18-137		

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
1,2,4-Trichlorobenzene	0.05	0.025	50	0.05	0.026	52	3.9	35	6-126	
1,2-Dichlorobenzene	0.05	0.025	50	0.05	0.026	52	3.9	35	18-102	
1,3-Dichlorobenzene	0.05	0.025	50	0.05	0.026	52	3.9	35	18-100	
1,4-Dichlorobenzene	0.05	0.024	48	0.05	0.026	52	8	35	14-109	
2,4,6-Trichlorophenol	0.05	0.032	64	0.05	0.032	64	0	25	19-120	
2,4-Dichlorophenol	0.05	0.03	60	0.05	0.03	60	0	35	9-121	
2,4-Dimethylphenol	0.05	0.027	54	0.05	0.028	56	3.6	35	D-121	
2,4-Dinitrophenol	0.05	0.017	34	0.05	0.019	38	11.1	35	20-110	
2,4-Dinitrotoluene	0.05	0.032	64	0.05	0.034	68	6.1	35	18-137	
2,6-Dinitrotoluene	0.05	0.033	66	0.05	0.035	70	5.9	35	26-122	
2-Chloronaphthalene	0.05	0.029	58	0.05	0.029	58	0	35	19-118	
2-Chlorophenol	0.05	0.025	50	0.05	0.026	52	3.9	35	18-102	
2-Nitrophenol	0.05	0.027	54	0.05	0.027	54	0	35	16-109	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Semivolatile Organic Compounds** **Method :** **EPA 625** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030760 **Created Date :** 03/07/13 **Created By :** Psaraiya

Samples in This QC Batch : 13021286.02,06

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
4,6-Dinitro-2-methylphenol	0.05	0.029	58	0.05	0.029	58	0	25	8-124	
4-Bromophenyl phenyl ethe	0.05	0.034	68	0.05	0.032	64	6.1	35	33-113	
4-Chloro-3-methylphenol	0.05	0.03	60	0.05	0.032	64	6.5	35	17-122	
4-Chlorophenyl pheny ether	0.05	0.032	64	0.05	0.032	64	0	35	27-120	
4-Nitrophenol	0.05	0.012	24	0.05	0.013	26	8	35	D-112	
Acenaphthene	0.05	0.03	60	0.05	0.031	62	3.3	35	23-131	
Acenaphthylene	0.05	0.031	62	0.05	0.031	62	0	35	24-117	
Anthracene	0.05	0.033	66	0.05	0.034	68	3	35	32-118	
Benzo(a)anthracene	0.05	0.032	64	0.05	0.034	68	6.1	25	36-115	
Benzo(a)pyrene	0.05	0.033	66	0.05	0.035	70	5.9	25	28-116	
Benzo(b)fluoranthene	0.05	0.032	64	0.05	0.033	66	3.1	35	27-121	
Benzo(g,h,i)perylene	0.05	0.033	66	0.05	0.034	68	3	35	18-123	
Benzo(k)fluoranthene	0.05	0.032	64	0.05	0.034	68	6.1	35	21-122	
Bis(2-chloroethoxy) methan	0.05	0.028	56	0.05	0.029	58	3.5	35	20-107	
Bis(2-chloroethyl) ether	0.05	0.02	40	0.05	0.024	48	18.2	35	23-95	
Bis(2-chloroisopropyl) ether	0.05	0.028	56	0.05	0.029	58	3.5	35	17-104	
Bis(2-ethylhexyl)phthalate	0.05	0.031	62	0.05	0.033	66	6.2	35	9-133	
Butyl benzyl phthalate	0.05	0.032	64	0.05	0.034	68	6.1	35	14-135	
Chrysene	0.05	0.035	70	0.05	0.035	70	0	25	36-117	
Dibenzo(a,h)anthracene	0.05	0.032	64	0.05	0.033	66	3.1	35	26-118	
Diethyl phthalate	0.05	0.034	68	0.05	0.034	68	0	35	25-128	
Dimethyl phthalate	0.05	0.034	68	0.05	0.034	68	0	35	27-122	
Di-n-butyl phthalate	0.05	0.034	68	0.05	0.034	68	0	35	25-128	
Di-n-octyl Phthalate	0.05	0.033	66	0.05	0.034	68	3	35	18-128	
Fluoranthene	0.05	0.033	66	0.05	0.033	66	0	35	27-131	
Fluorene	0.05	0.032	64	0.05	0.032	64	0	35	26-126	
Hexachlorobenzene	0.05	0.033	66	0.05	0.034	68	3	25	30-130	
Hexachlorobutadiene	0.05	0.023	46	0.05	0.025	50	8.3	25	5-115	
Hexachlorocyclopentadiene	0.05	0.022	44	0.05	0.023	46	4.4	35	D-95	
Hexachloroethane	0.05	0.025	50	0.05	0.027	54	7.7	25	14-102	
Indeno(1,2,3-cd)pyrene	0.05	0.033	66	0.05	0.035	70	5.9	35	24-126	
Isophorone	0.05	0.03	60	0.05	0.031	62	3.3	35	15-114	
Naphthalene	0.05	0.025	50	0.05	0.026	52	3.9	25	19-112	
Nitrobenzene	0.05	0.029	58	0.05	0.029	58	0	25	20-109	
N-Nitrosodimethylamine	0.05	0.014	28	0.05	0.015	30	6.9	35	5-92	
N-nitroso-di-n-propylamine	0.05	0.028	56	0.05	0.029	58	3.5	35	24-114	
N-Nitrosodiphenylamine	0.05	0.034	68	0.05	0.035	70	2.9	35	35-135	
Pentachlorophenol	0.05	0.025	50	0.05	0.026	52	3.9	35	D-128	
Phenanthrene	0.05	0.033	66	0.05	0.034	68	3	25	31-119	
Phenol	0.05	0.015	30	0.05	0.016	32	6.4	35	D-111	
Pyrene	0.05	0.034	68	0.05	0.035	70	2.9	35	10-145	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030803 **Created Date :** 03/07/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.02

Sample Preparation : PB13030804 **Prep Method :** EPA 624 **Prep Date :** 03/07/13 11:00 **Prep By :** Yzhang

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,1,1-Trichloroethane	71-55-6	BRL	mg/L	1	0.01		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	mg/L	1	0.005		
1,1,2-Trichloroethane	79-00-5	BRL	mg/L	1	0.005		
1,1-Dichloroethane	75-34-3	BRL	mg/L	1	0.005		
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.01		
1,2-Dichlorobenzene	95-50-1	BRL	mg/L	1	0.005		
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.01		
1,3-Dichlorobenzene	541-73-1	BRL	mg/L	1	0.005		
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.01		
2-Butanone	78-93-3	BRL	mg/L	1	0.005		
Benzene	71-43-2	BRL	mg/L	1	0.005		
Bromodichloromethane	75-27-4	BRL	mg/L	1	0.006		
Bromoform	75-25-2	BRL	mg/L	1	0.005		
Bromomethane	74-83-9	BRL	mg/L	1	0.005		
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.01		
Chlorobenzene	108-90-7	BRL	mg/L	1	0.01		
Chloroethane	75-00-3	BRL	mg/L	1	0.006		
Chloroform	67-66-3	BRL	mg/L	1	0.01		
Chloromethane	74-87-3	BRL	mg/L	1	0.005		
cis-1,3-Dichloropropene	10061-01-5	BRL	mg/L	1	0.006		
Dibromochloromethane	124-48-1	BRL	mg/L	1	0.01		
Ethylbenzene	100-41-4	BRL	mg/L	1	0.005		
Methylene chloride	75-09-2	BRL	mg/L	1	0.005		
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.01		
Toluene	108-88-3	BRL	mg/L	1	0.005		
trans-1,2-Dichloroethylene	156-60-5	BRL	mg/L	1	0.005		
trans-1,3-Dichloropropene	10061-02-6	BRL	mg/L	1	0.005		
Trichloroethylene	79-01-6	BRL	mg/L	1	0.01		
Trichlorofluoromethane	75-69-4	BRL	mg/L	1	0.005		
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.01		
Dibromofluoromethane(surr	1868-53-7	106	%	1	70-130		
1,2-Dichloroethane-d4(surr	17060-07-0	110	%	1	70-130		
Toluene-d8(surr)	2037-26-5	106	%	1	70-130		
p-Bromofluorobenzene(surr	460-00-4	123	%	1	70-130		

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030803 **Created Date :** 03/07/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.02

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
1,1-Dichloroethylene	0.02	0.018	90	0.02	0.017	85	5.7	30	75.5-124	
Benzene	0.02	0.018	90	0.02	0.018	90	0	30	80-120	
Chlorobenzene	0.02	0.019	95	0.02	0.017	85	11.1	30	80-120	
Toluene	0.02	0.019	95	0.02	0.017	85	11.1	30	77.1-121	
Trichloroethylene	0.02	0.018	90	0.02	0.017	85	5.7	30	80-120	
1,1,1-Trichloroethane	0.02	0.02	100	0.02	0.018	90	10.5	30	80-120	
1,1,2,2-Tetrachloroethane	0.02	0.019	95	0.02	0.019	95	0	30	80-120	
1,1,2-Trichloroethane	0.02	0.019	95	0.02	0.018	90	5.4	30	80-120	
1,1-Dichloroethane	0.02	0.019	95	0.02	0.018	90	5.4	30	77.6-124	
1,2-Dichlorobenzene	0.02	0.018	90	0.02	0.018	90	0	30	83.2-121	
1,2-Dichloroethane	0.02	0.02	100	0.02	0.019	95	5.1	30	74.5-129	
1,3-Dichlorobenzene	0.02	0.018	90	0.02	0.017	85	5.7	30	80-120	
1,4-Dichlorobenzene	0.02	0.018	90	0.02	0.018	90	0	30	80-120	
Bromodichloromethane	0.02	0.019	95	0.02	0.018	90	5.4	30	80-119	
Bromoform	0.02	0.017	85	0.02	0.017	85	0	30	78.8-127	
Bromomethane	0.02	0.019	95	0.02	0.018	90	5.4	30	53-138	
Carbon tetrachloride	0.02	0.018	90	0.02	0.017	85	5.7	30	70-136	
Chloroethane	0.02	0.022	110	0.02	0.02	100	9.5	30	75.6-128	
Chloroform	0.02	0.02	100	0.02	0.018	90	10.5	30	79-123	
Chloromethane	0.02	0.021	105	0.02	0.021	105	0	30	69.6-125	
cis-1,3-Dichloropropene	0.02	0.019	95	0.02	0.018	90	5.4	30	80-120	
Dibromochloromethane	0.02	0.018	90	0.02	0.017	85	5.7	30	82.8-117	
Ethylbenzene	0.02	0.019	95	0.02	0.018	90	5.4	30	80-120	
Methylene chloride	0.02	0.019	95	0.02	0.017	85	11.1	30	69.4-131	
Tetrachloroethylene	0.02	0.017	85	0.02	0.016	80	6.1	30	40-168	
trans-1,2-Dichloroethylene	0.02	0.02	100	0.02	0.018	90	10.5	30	77.5-122	
trans-1,3-Dichloropropene	0.02	0.019	95	0.02	0.018	90	5.4	30	81.5-113	
Trichlorofluoromethane	0.02	0.021	105	0.02	0.019	95	10	30	80-132	
Vinyl Chloride	0.02	0.022	110	0.02	0.022	110	0	30	71.1-127	
2-Butanone	0.02	0.025	125	0.02	0.024	120	4.1	30	75-125	

QC Type: MS and MSD
QC Sample ID: 13021286.02

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-Dichloroethylene	BRL	0.02	0.019	95						81-130	
Benzene	BRL	0.02	0.019	95						84-132	
Chlorobenzene	BRL	0.02	0.018	90						72-132	
Toluene	BRL	0.02	0.018	90						72-136	
Trichloroethylene	BRL	0.02	0.018	90						75-136	
1,1,1-Trichloroethane	BRL	0.02	0.02	100						78-131	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Volatile Organic Compounds** **Method :** **EPA 624** **Reporting Units :** **mg/L**

QC Batch ID : Qb13030803 **Created Date :** 03/07/13 **Created By :** Yzhang

Samples in This QC Batch : 13021286.02

QC Type: MS and MSD
QC Sample ID: 13021286.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,2,2-Tetrachloroethane	BRL	0.02	0.019	95						66-145	
1,1,2-Trichloroethane	BRL	0.02	0.019	95						69-138	
1,1-Dichloroethane	BRL	0.02	0.02	100						84-128	
1,2-Dichlorobenzene	BRL	0.02	0.019	95						73-138	
1,2-Dichloroethane	BRL	0.02	0.021	105						65-154	
1,3-Dichlorobenzene	BRL	0.02	0.018	90						74-136	
1,4-Dichlorobenzene	BRL	0.02	0.018	90						71-136	
Bromodichloromethane	BRL	0.02	0.02	100						83-134	
Bromoform	BRL	0.02	0.017	85						68-135	
Bromomethane	BRL	0.02	0.018	90						65-144	
Carbon tetrachloride	BRL	0.02	0.018	90						70-136	
Chloroethane	BRL	0.02	0.022	110						76-147	
Chloroform	BRL	0.02	0.02	100						68-130	
Chloromethane	BRL	0.02	0.021	105						73-127	
cis-1,3-Dichloropropene	BRL	0.02	0.02	100						81-126	
Dibromochloromethane	BRL	0.02	0.018	90						68-139	
Ethylbenzene	BRL	0.02	0.019	95						75-133	
Methylene chloride	BRL	0.02	0.022	96						74-126	
Tetrachloroethylene	BRL	0.02	0.016	80						65-138	
trans-1,2-Dichloroethylene	BRL	0.02	0.02	100						73-130	
trans-1,3-Dichloropropene	BRL	0.02	0.018	90						73-129	
Trichlorofluoromethane	BRL	0.02	0.022	110						78-143	
Vinyl Chloride	BRL	0.02	0.024	120						58-135	
2-Butanone	BRL	0.02	0.025	125						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Total Metals - Mercury** **Method :** **SW-846 7470A** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13030828 **Created Date :** 03/08/13 **Created By :** PRKasar

Samples in This QC Batch : 13021286.01,03,04,05

Digestion : PB13030835 **Prep Method :** SW-846 7470A **Prep Date :** 03/08/13 08:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/Kg	1	0.01		

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
Mercury	0.1	0.0959	95.9	0.1	0.0978	97.8	2	20	80-120	

QC Type: MS and MSD
QC Sample ID: 13021286.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.1	0.0887	88.6						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030847 **Created Date :** 03/07/13 **Created By :** JShah

Samples in This QC Batch : 13021286.01,03,04,05

Sample Preparation : PB13030836 **Prep Method :** TX 1005 **Prep Date :** 03/06/13 17:54 **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	80	%	1	60-150		
1-Chlorooctane(surr)	111-85-3	81.8	%	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	567	113	500	592	118	4.3	20	75-125	
>C12-C28	500	541	108	500	563	113	4	20	75-125	
>C28-C35	500	506	101	500	536	107	5.8	20	75-125	

QC Type: MS and MSD
QC Sample ID: 13021286.03

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	23.271	500	633	122						75-125	
>C12-C28	11.965	500	529	103						75-125	
>C28-C35	0.00	500	599	120						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

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

QC Batch ID : Qb13030851 **Created Date :** 03/08/13 **Created By :** JShah

Samples in This QC Batch : 13021286.06

Sample Preparation : PB13030845 **Prep Method :** TX 1005 **Prep Date :** 03/07/13 17:12 **Prep By :** JShah

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12	TPH-1005-1	BRL	mg/L	1	1		
>C12-C28	TPH-1005-2	BRL	mg/L	1	2.48		
>C28-C35	TPH-1005-4	BRL	mg/L	1	1.88		
Total C6-C35		BRL	mg/L	1			
Chlorooctadecane(surr)	3386-33-2	64.4	%	1	53-122		
1-Chlorooctane(surr)	111-85-3	69.3	%	1	60-120		

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	43	34	79.1	43	38	88.4	11.1	20	75-125	
>C12-C28	43	39	90.7	43	42	97.7	7.4	20	75-125	
>C28-C35	43	42	97.7	43	46	107	9.1	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 13021286 **Date :** 3/11/2013

Analysis : **Total Recoverable Metals** **Method :** **SW-846 6010C** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb13031105 **Created Date :** 03/08/13 **Created By :** Ggorane

Samples in This QC Batch : 13021286.01,03,04,05

Digestion : PB13030705 **Prep Method :** SW-846 3050B **Prep Date :** 03/06/13 15:00 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/Kg	1	0.5		
Barium	7440-39-3	BRL	mg/Kg	1	0.5		
Cadmium	7440-43-9	BRL	mg/Kg	1	0.5		
Chromium	7440-47-3	BRL	mg/Kg	1	0.5		
Lead	7439-92-1	BRL	mg/Kg	1	0.5		
Selenium	7782-49-2	BRL	mg/Kg	1	0.5		
Silver	7440-22-4	BRL	mg/Kg	1	0.5		

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
Arsenic	25	23.8	95.1	25	23.9	95.6	0.5	20	80-120	
Barium	25	24.5	98	25	24.1	96.3	1.8	20	80-120	
Cadmium	25	23.4	93.5	25	23.5	94.1	0.7	20	80-120	
Chromium	25	25.2	101	25	24.9	99.8	0.9	20	80-120	
Lead	25	23.6	94.2	25	23.8	95.3	1.1	20	80-120	
Selenium	25	23.1	92.3	25	23.3	93.3	1.2	20	80-120	
Silver	25	23.9	95.5	25	23.7	95	0.5	20	80-120	

QC Type: MS and MSD
QC Sample ID: 13021286.04

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	1.3976	25	18.3	67.7						70-130	M2
Barium	124	25	0.0	-495.9136						70-130	M3
Cadmium	BRL	25	17.0	67.8						70-130	M2
Chromium	5.5117	25	22.5	68.1						70-130	M2
Lead	6.2042	25	21.3	60.5						70-130	M2
Selenium	BRL	25	16.5	65.9						70-130	M2
Silver	BRL	25	17.4	69.7						70-130	M2

Refer to the Definition page for terms.

A & B Labs — *Chain of Custody*

The Chain of Custody is a Legal Document

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 # 13021286

5. Project # HE 1214760

1. REPORT TO:
Company: HVJ
Address: 6120 S. Dairy Ashford, Houston, TX 77072
Contact: Muhammad Mustafa
Phone: 2819337388
Fax: ☐
E-mail: ☐ mmustafa@HVJ.com

2. INVOICE TO:
Company: HVJ
Address: 6120 S. Dairy Ashford, Houston, TX 77072
Contact: Muhammad Mustafa
Phone: 2819337388
Fax: ☐
E-mail: ☐ mmustafa@HVJ.com

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: ESA II COH EXPP Raw Water Line Conditions Assessment

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

8. Sampler's Name & Company (PLEASE PRINT): Edgar Eusebio
Sampler's Signature & Date

LAB USE ONLY Page/Line	9. Sample ID and Description	10. Sampling Date	Time 24hr	11. Comp.	Grab	12. Matrix: Water	Soil	Sludge	Oil	Drinking Water	Air	Other	No. of Containers	Analyses/Methods: VOC A-C	SVOC DE	TPH	metals F	Soil	18. REMARKS
01AB	EB-11	2-27-13	11:05		/	/							2				2		
02AF	EB-11	2-27-13	3:00		/	/							6	3	2		1		
03AB	EB-12	2-27-13	12:30		/	/							2				2		
04AB	EB-13	2-27-13	12:43		/	/							2				2		
05AB	EB-14	2-27-13	1:12		/	/							2				2		
06AF	EB-14	2-27-13	3:20			/							6	3	2		1		

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

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1 Edgar Eusebio	2-28-13	9:50	[illegible]	2-28-13	9:50
2					
3					

21. KNOWN HAZARDS/COMMENTS

Temperature: 6.0 °C
Thermometer ID 111600055
Intact Y or N Initials [illegible]

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

**Preservatives: C - Cool; H - HCl; N - HNO_3; S - H_2SO_4; OH - NaOH; T - $NA_2S_2O_3$; X - Other

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

LAB USE ONLY SAMPLING RENTAL P/U

Sample Condition Checklist

A&B JobID : **13021286**	Date Received : **02/28/2013**	Time Received : **9:50AM**
Client Name : **HVJ Associates**		
Temperature : **6.0°C**	Sample pH : **<2 Metals**	
Thermometer ID : **111601055**	pH Paper ID : **52054**	

	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.	**Matrix :** Water ☑ Soil ☑ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
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:

Air bubbles larger than 1/4" in voa vials .02A, .02C. The chain lists soil samples, but does not specify which tests are needed for soil samples. The chain also lists TPH but it is not marked for either waters or soils. Per client, run all tests on all samples. 3/5/13 MK

Received by : Yhuerta

Check in by/date : CCripe / 02/28/2013

APPENDIX C

WASTE DISPOSAL DOCUMENTATION

WASTE DISPOSAL IS IN PROGRESS

DISPOSAL DOCUMENTATION WILL

BE INCLUDED WITH THE FINAL REPORT