Environmental & Engineering Services

SITE ASSESSMENT REPORT

101-111 Geraldine Street | Key West, Florida
PM Project Number 06-3668-4

Prepared for:

Keys Energy Services
1001 James Street
Key West, Florida 33041

Prepared by:

PM Environmental, Inc.
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March 10, 2014

Mr. Stanley Rzad
Keys Energy Services
1001 James Street
PO Box 6100
Key West, FL 33041

Re: Site Assessment Report and First Quarterly Monitoring Only Plan
For the Former Key West Gas and Electric Company
Located at 101-111 Geraldine Street in Key West, Florida
PM Environmental, Inc. Project No. 06-3668-4
FDEP Comet Site ID #303264

Dear Mr. Rzad:

PM Environmental, Inc. (PM) has completed the Site Assessment Report (SAR) at the Former Key West Gas and Electric Company property located at 101-111 Geraldine Street in Key West, Monroe County, Florida. The attached report is a summary of the field investigative techniques and results of the site assessment activities.

THE REPORT WAS PREPARED FOR THE EXCLUSIVE USE OF KEYS ENERGY SERVICES, WHO MAY RELY ON THE REPORT'S CONTENTS.

If you have any question or concerns, please feel free to contact our office at (954) 924-1801. We look forward to providing you with qualified and professional environmental consulting services in the future.

Sincerely,
PM ENVIRONMENTAL, INC.

Candace E. Chin Fatt
Project Manager

Elliot J. Nightingale, P.G.
Senior Consultant

Enclosure

SITE ASSESSMENT REPORT

For

FORMER KEY WEST GAS AND ELECTRIC COMPANY
LOCATED AT 101-111 GERALDINE STREET
KEY WEST, MONROE COUNTY, FLORIDA
FDEP Comet Site ID #303264

Prepared by

PM Environmental, Inc.
2131 Hollywood Boulevard
Suite 503
Hollywood, Florida, 33020

PM Project Number 06-3668-4

In accordance with the provisions of Florida Statutes, Chapter 492, this Site Assessment Report for the Former Key West Gas and Electric Company located at 101-111 Geraldine Street in Key West, Monroe County, Florida, has been prepared under the direct supervision of a Professional Geologist registered in the State of Florida. This report has been determined to be in accordance with good professional geological practices pursuant to Chapter 492 of the Florida Statutes and Chapter 62-770, Florida Administrative Code (FAC) as it applies to the work described herein. The data, findings, recommendations, specifications or professional opinions were prepared solely for the use of Keys Energy Services. PM makes no other warranty; either expressed or implied, and is not responsible for the interpretation by others of these data.

Elliot J. Nightingale, P.G.
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2131 Hollywood Boulevard
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Hollywood, Florida 33020
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LIMITATIONS

This Site Assessment Report is a property-specific assessment that is related to the environmental conditions of the subject property only.

PM Environmental, Inc. (PM) performed its services in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. In preparing the assessment report, PM may have relied on information obtained from or provided by others. PM makes no representation or warranty regarding the accuracy or completeness of this information gathered through outside sources or subcontracted services. No single page of this report should be relied upon alone, rather only the report in its entirety. No warranty, guarantee, or certification of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by rendering these environmental consulting services or by furnishing this written report. Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant in the future, after PM has completed the scope of work for this project. Furthermore, because of the facts stated in this report are subject to professional interpretation, differing conclusions could be reached by other professionals.

Contaminants may be hidden in subsurface material, covered by pavement, vegetation, or other substances. Additionally, contamination may not be present in predictable locations. The most that PM can do is prepare a logical assessment program to reduce the client's risk of discovering unknown contamination. This risk may be reduced by more extensive exploration on the property. Even with additional exploration, it is not possible to completely eliminate the risk of discovering contamination on-site. It cannot be assumed that samples collected and conditions observed are representative of an area that has not been sampled and/or tested. Tests and other data collected for the report were obtained only for the sole purposes stated in this report, and they should not be used for purposes or reasons other than those intended.

Some environmental assessments are undertaken to satisfy due diligence, all appropriate inquiry, or other regulatory requirements provided in federal, state, or local law. The level of investigation necessary to demonstrate due diligence or all appropriate inquiry has not been legislatively defined. Although PM strives to investigate a property in accordance with the scope of work, it cannot warrant that the work undertaken for this report will satisfy due diligence, all appropriate inquiry, or any other similar standard under any federal, state, or local law.

Due to changing environmental regulatory conditions and potential on-site or off-site activities occurring after this assessment, the client may not presume the continuing applicability to the property of the conclusions in this assessment for more than 180 days after the report's issuance date.

Any reports, field data, field notes, laboratory testing, calculations, estimates or other documents prepared by or relied upon by PM are the property of PM. If any of these documents are released or obtained by a party other than the client, PM may not discuss the project with that party unless the original contracted client notifies PM of the same and PM is authorized to disclose the information and to discuss the project with others. Except as otherwise agreed with the client, PM further states that it disclaims any duty of any kind or nature to any person or entity other than the client in preparing this report.

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EXECUTIVE SUMMARY

PM Environmental, Inc. (PM) has completed a Site Assessment Report (SAR) for the subject property known as the Former Key West Gas and Electric Company, located at 101-111 Geraldine Street in Key West, Monroe County, Florida. This SAR was conducted in accordance with Chapter 62-770 Florida Administrative Code, (FAC).

The subject property consists of eight parcels containing approximately 0.78 acres. The subject property is developed with three buildings which consist of a 13,300 square foot main building, a 459 square foot blacksmith shop, and a 945 square foot machine shop. Standard and other historical sources were able to document that the first developed use of the subject property occurred in at 1884, at which time the property was developed as a manufactured gas plant that operated until 1889. The property began to operate as an electrical power plant in approximately 1890 and continued to operate as a power plant until the 1950s/1960s. Five residential dwellings were present on the northern and southern portions of the property from at least 1892 until 1899. The property has been unoccupied since the power plant was closed, with the exception of the construction of an electrical substation on the southern portion of the property in the late 2000s.

The Keys Energy Services, “the client”, is currently in the process of expanding the current substation at the above-referenced property and has proposed plans for redevelopment. Prior to redevelopment, the client would like to obtain regulatory closure. PM completed a Phase I Environmental Site Assessment (ESA) in July 2013 and Phase II ESA in October 2013. The findings are summarized below.

The Phase I ESA completed by PM (PM Project Number 06-3668-0), dated July 26, 2013 identified the following Recognized Environmental Conditions (RECs):

- Assessment activities on behalf of the Florida Department of Environmental Protection (FDEP) in August 2012 to further assess the historical operations at the subject property identified concentrations of polynuclear aromatic hydrocarbons (PAHs), arsenic, and lead above FDEP Soil Cleanup Target Levels (SCTLs) in shallow soil samples to the southwest of the machine shop building. In addition, concentrations of isopropyl benzene and PAHs were identified above FDEP Groundwater Cleanup Target Levels (GCTLs). This contamination appears to be associated with former operations on the subject property.

- The subject property operated as a manufactured gas plant (MGP) from approximately 1884 until 1889. Operations of MGPs typically involved the gasification of combustible materials such as coal, wood, or oil. A former retort room, which is a processing area, and a former gasometer, which was a storage container for gas, were identified on the eastern portion of the property. The by-products of the gasification process typically included petroleum products and/or hazardous substances, including coal tars. The potential exists for a release to have occurred in association with the operation of the former MGP.

- Sanborn maps document the presence of six former 25,000-gallon crude oil above ground storage tanks (ASTs) along the southern property boundary between at least 1912 and 1926. In addition, two former crude oil ASTs were identified to the east of the main building. Limited sampling has been conducted in these areas that is not adequate to assess the potential for leaks, spills, and/or overfills to have occurred in association with these former ASTs; therefore, the potential exists for subsurface contamination to be present.

- The subject property operated as a power plant, which utilized petroleum products as a fuel source, from approximately 1890 until the 1950s/1960s. The potential exists for leaks and/or spills to have occurred in association with the operation of the turbine generators and/or other equipment within the main building and on various portions of the property. The integrity of the floor beneath the generators is unknown; therefore, the potential exists for subsurface impact to be present.

- Former machine shops were identified on the property within the southwestern portion of the main building and within the machine shop. Machine shop operations typically involve the use of general hazardous substances and/or petroleum products. This time period preceded major environmental regulations and current waste management and disposal procedures. The historical waste management practices associated with the former machine shop operations are unknown and may be a source of subsurface contamination.

The following adjoining and/or nearby RECs were identified:

- The north adjoining properties were formerly part of the Truman Annex, which was a part of Naval Air Station Key West, from at least 1892 until 1971. Sanborn maps document the property was occupied by U.S. governmental land dating back to at least 1892. The historic usage of these properties associated with the former military base is unknown from at least 1892 until 1958. Therefore, the potential exists for operations to have included the use of petroleum products and/or hazardous substances, and/or landfilling activities to have occurred.

- The south adjoining properties, identified as 110-118 Geraldine Street, was occupied by a Standard Oil bulk petroleum plant. The potential exists for leaks, spills, and/or overfills associated with the operation of a former bulk petroleum plant to have resulted in migration of contamination onto the subject property.

- The west adjoining property was occupied by U.S. governmental land from at least 1892 until 1926. Specifically, a governmental slip was identified directly west of the property in 1892. According to previous investigations on the subject property, this property was filled in the 1890s or early 1990s. The potential exists for the fill materials to have originated from a contaminated property. Therefore, the potential exists for migration of contamination onto the subject property.

Subsequent to the Phase I ESA, PM completed a Phase II ESA, dated October 8, 2013, which consisted of advancing 16 soil borings (SB-1 through SB-16), installing 10 temporary monitoring wells (TMW-1, TMW-4, TMW-5D, TMW-6D, TMW-7 through TMW-11, and TMW-14), and collecting soil and groundwater samples for laboratory analysis to investigate the RECs identified in PM's Phase I ESA dated July 26, 2013. A total of 16 soil and 10 groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs), PAHs, total recoverable petroleum hydrocarbons (TRPHs), and 8 Resource Conservation and Recovery Act (RCRA) Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), or some combination thereof.

Results of the Phase II ESA indicated concentrations of PAHs, TRPHs, and metals (arsenic, barium, and lead) in the soil above the FDEP SCTLs, and VOCs, PAHs, and TRPHs in the groundwater above the FDEP GCTLs, and the Natural Attenuation Default Concentrations (NADCs), as set forth in Chapter 62-777, FAC, which are not defined vertically or horizontally.

Based on the history of the subject property, the contaminants detected in the soil and groundwater are consistent with the historic use of the subject property as a gas and electric plant, and consistent with previously reported soil and groundwater impacts.

Based on the known historical use and operations of the subject property, and the findings of the Phase II ESA, PM recommended that a SAR and Monitoring Only Plan (MOP) consisting of one year of quarterly monitoring be conducted.

On January 27th through 29th, 2014, as part of the SAR investigation, PM completed a scope of work to further delineate the groundwater impacts identified in the Phase II ESA report. The scope of services included the installation of seven permanent monitoring wells (PMW-1 though PMW-7), and the collection of groundwater samples for laboratory analysis of VOCs by EPA Method 8260, PAHs by EPA Method 8270, and TRPHs by Florida Petroleum Residual Organics (FL-PRO) Method.

Based on the soil boring logs, the general subsurface soil statigraphy consists of three to four feet of medium to fine brown sand underlain by coral limestone to a depth of 12.0 feet below land surface (bls), the maximum depth explored. Groundwater was encountered at depths ranging from approximately 3.6 to 4.7 feet bls.

The surficial aquifer on Key West is comprised of the Miami and Key Largo Limestones. An approximate five-foot thick freshwater lens exists on the western half of the island, however, no measurable fresh water lens exists in the eastern half of the island due to extensive areas of artificial fill. A fresh groundwater lens exists on the top of the saltwater due to the density differences and is found under water-table conditions between 5 to 8 feet bls in the site area. As the water table fluctuates, the shape of the lens changes due to tidal effects. Precipitation is the primary type of recharge to this fresh water lens. The freshwater head is greater in the center of the island where land surface elevations are higher, as ground water moves from the center of the lens and discharges along beaches and salt ponds. Based on regional flow patterns, the surficial flow of this lens in the subject property area is to the southwest. Tidal effects greatly influence the depth to water table and configuration of the lens, and therefore, a site specific groundwater flow diagram is not included as part of this assessment.

Laboratory analytical results of the SAR completed identified the following:

- VOC analytes bromodichloromethane (PMW-3), ethylbenzene (PMW-2), isopropyl benzene (PMW-1 to PMW-3 and PMW-5 to PMW-7), 1,2,3-trichloropropane (PMW-1), 1,2,3-trimethylbenzene (PMW-1 and PMW-2), 1,2,4-trimethylbenzne (PMW-1 and PMW-2), 1,3,5-trimethylbenzene (PMW-1), and xylenes (PMW-1 and PMW-2) were identified in the groundwater samples collected at concentrations that exceeded the GCTL criterion as set forth in Chapter 62-777, FAC, but were below the NADCs. Concentrations of isopropyl benzene at PMW-1 (48.4 µg/l) and PMW-2 (12.0 µg/l), and 1,2,4-trimethylpropane at PMW-1 (2.4 µg/l) exceeded their respective NADCs. No other VOCs were detected above the GCTLs and/or NADCs in the groundwater samples collected at the subject property.

- PAH analytes acenaphthalene (PMW-2), benzo(a)anthracene (PMW-1 and PMW-2), benzo(b)fluoranthene (PMW-2), naphthalene (PMW-1 and PMW-2), 1-methylnaphthalene, and 2-methylnaphthalene were identified in the groundwater samples collected at concentrations that exceed their respective GCTL cirtieria, but were below the NADCs. Concentrations of naphthalene at PMW-1 (1,480 µg/l) and PMW-2 (219 µg/l), and 2-

methylnaphthalene at PMW-2 (335 µg/l) exceeded their respective NADCs. No other PAHs were detected above the GCTLs and/or NADCs in the groundwater samples collected at the subject property.

- TRPH was identified in the groundwater sample collected PMW-1 (6,300 µg/l) at a concentration that exceeds the GCTL criteria, but is below the NADCs. No other TRPH concentrations were detected above the GCTLs in the groundwater samples collected at the subject property.

The borings, temporary monitoring wells, and permanent monitoring wells have investigated the known sources of VOCs and PAHs on the subject property. The SAR groundwater sampling event indicates that VOC and PAH groundwater impact is defined on the subject property, with the exception of the vicinity of PMW-1, where off-site migration is likely. Due to the tidal effects influencing the surficial groundwater flow, and a highly variable lateral water table gradient, solute transport may be a function of these fluctuating gradients, combined with molecular diffusion and lateral dispersion. A more detailed analysis on the localized groundwater flow and gradient is planned for the next monitoring event.

PM recommends the implementation of a Monitoring Only Program (MOP) to include quarterly monitoring of the groundwater for a minimum of one year. Additionally, based on the analytical results from PMW-1, the proximity to the property boundary, and the high tidal influence, additional wells may be required to further delineate the groundwater impact.

This report has been reviewed for its completeness and accuracy. Please feel free to contact our office at (954) 924-1801 to discuss this report.

Report Prepared By:

Candace E. Chin Fatt
Project Manager

Report Reviewed By:

Maryse Speckner
Senior Consultant

Elliot J. Nightingale, P.G.
Senior Consultant

1.0 INTRODUCTION

1.1 Authorization

Authorization for the Site Assessment activities was approved through PM's Proposal No. 06000998 dated December 10, 2013 and approved on January 8, 2014 between Keys Energy Services and PM.

1.2 Site Description

The subject property consists of eight parcels containing approximately 0.78 acres. The subject property is developed with three buildings which consist of a 13,300 square foot main building, a 459 square foot blacksmith shop, and a 945 square foot machine shop. Standard and other historical sources were able to document that the first developed use of the subject property occurred in at 1884, at which time the property was developed as a manufactured gas plant that operated until 1889. The property began to operate as an electrical power plant in approximately 1890 and continued to operate as a power plant until the 1950s/1960s. Five residential dwellings were present on the northern and southern portions of the property from at least 1892 until 1899. The property has been unoccupied since the power plant was closed, with the exception of the construction of an electrical substation on the southern portion of the property in the late 2000s. A United States Geological Survey (USGS) map of the site vicinity is included as Figure 1 and a map of the subject property and surrounding properties is provided as Figure 2.

1.3 Project Background

The Keys Energy Services, "the client", is currently in the process of expanding the current substation at the above-referenced property and has proposed plans for redevelopment. Prior to redevelopment, the client would like to obtain regulatory closure. PM completed a Phase I Environmental Site Assessment (ESA) in July 2013 and Phase II ESA in October 2013. The findings are summarized below.

The Phase I ESA completed by PM (PM Project Number 06-3668-0), dated July 26, 2013 identified the following Recognized Environmental Conditions (RECs):

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products and/or hazardous substances, including coal tars. The potential exists for a release to have occurred in association with the operation of the former MGP.

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- The subject property operated as a power plant, which utilized petroleum products as a fuel source, from approximately 1890 until the 1950s/1960s. The potential exists for leaks and/or spills to have occurred in association with the operation of the turbine generators and/or other equipment within the main building and on various portions of the property. The integrity of the floor beneath the generators is unknown; therefore, the potential exists for subsurface impact to be present.

- Former machine shops were identified on the property within the southwestern portion of the main building and within the machine shop. Machine shop operations typically involve the use of general hazardous substances and/or petroleum products. This time period preceded major environmental regulations and current waste management and disposal procedures. The historical waste management practices associated with the former machine shop operations are unknown and may be a source of subsurface contamination.

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collecting soil and groundwater samples for laboratory analysis to investigate the RECs identified in PM's Phase I ESA dated July 26, 2013. A total of 16 soil and 10 groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs), PAHs, total recoverable petroleum hydrocarbons (TRPHs), and 8 Resource Conservation and Recovery Act (RCRA) Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), or some combination thereof.

Results of the Phase II ESA indicated concentrations of PAHs, TRPHs, and metals (arsenic, barium, and lead) in the soil above the FDEP SCTLs, and VOCs, PAHs, and TRPHs in the groundwater above the FDEP GCTLs, and the Natural Attenuation Default Concentrations (NADCs), as set forth in Chapter 62-777, Florida Administrative Code (FAC), which are not defined vertically or horizontally. Based on the history of the subject property, the contaminants detected in the soil and groundwater are consistent with the historic use of the subject property as a gas and electric plant, and consistent with previously reported soil and groundwater impacts.

PM reviewed the following reports pertaining to previous environmental investigation completed at the subject property:

- Contamination Assessment Report (CAR), September 1991, CH2M Hill;
- CAR Addendum, July 1992, CH2M Hill;
- Remedial Action Plan (RAP), October 1992, CH2M Hill;
- Remedial Action Plan Modification, June 1993, PDG Environmental Services;
- 1st Quarter Groundwater Monitoring Report, April 4, 1994, CH2M Hill;
- Third Quarter Monitoring Only Water Quality Results, April 17, 1995, PDG Environmental Services;
- Site Rehabilitation Completion Order, July 27, 1995, FDEP;
- Enhanced Pre-CERCLIS Screening Assessment Checklist/Decision Form, January 7, 2011, FDEP;
- Abbreviated Preliminary Assessment Checklist, October 31, 2011, FDEP; and
- Site Inspection Report, October 16, 2012, FDEP.

According to the information obtained from the regulatory files reviewed, a release was identified in March 1991 based on the presence of free phase hydrocarbons within a concrete lined pit located east of the main building. Free product was also subsequently identified in MW-7, which was located to the northwest of the pit. As a result of the identification of free product, the former ASTs and the concrete lined pit were emptied, cleaned, and removed in August 1992. A total of approximately 30,000 gallons of free product/impacted groundwater and 3,850 cubic yards of impacted soil was removed from the property during decommissioning activities and disposed of off-site. The extent and location of the excavation was not documented in previous reports. In addition, approximately 100 gallons of free product was removed from MW-7 between 1991 and 1992. Subsequent groundwater sampling between 1992 and 1995 did not identify free product within MW-7. The most recent sampling in 1994 and 1995 did not identify concentrations of PAHs or TRPHs above the most restrictive FDEP GCTLs in the area of the former ASTs or former concrete pit. The FDEP issued a Site Rehabilitation Completion Order (SRCO) for the release on July 27, 1995, and PM has identified the closed LUST release at the property as a historical REC.

An additional assessment was completed on behalf of the FDEP in August 2012 to further assess the historical operations at the subject property and to determine if the property qualified as a Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) site. Soil and groundwater samples were submitted for laboratory analysis of VOCs, semi-volatile organic compounds (SVOCs), the RCRA eight metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), and cyanide. Analytical results identified concentrations of PAHs, arsenic, and lead above FDEP SCTLs in shallow soil samples to the southwest of the machine shop building. In addition, concentrations of isopropyl benzene and PAHs were identified above FDEP GCTLs in groundwater samples from the central portion of the property.

Sediment sampling from a storm water catch basin to the south of the subject property, across Fort Street, identified a concentration of lead above FDEP Sediment Quality Assessment Guidelines.

Based on the concentrations of contaminants identified at the subject property, no additional CERCLIS investigation was recommended. The facility did not qualify as a CERCLIS site, and the identified contamination was referred to the FDEP for additional investigation.

Based upon the reports reviewed and the projected goal to obtain some form of regulatory closure of this property from the FDEP; PM was requested to complete the following activities in order to facilitate a SAR that can be submitted to the FDEP under Chapter 62-770, FAC.

1.4 Investigation/Scope of Work

The objectives of this SAR were based on PM's previous Phase II ESA activities as well as previous reports and studies completed on the property. The investigation included the advancement of seven permanent monitoring wells in the vicinity of the previously identified impacted areas. PM performed the SAR in general accordance with Chapter 62-770, FAC.

2.0 ASSESSMENT ACTIVITIES

2.1 Quality Assurance/Quality Control

All field decontamination and sampling procedures were performed in general accordance with the FDEP Standard Operating Procedure (SOP) FS/001-01 for Field Activities. Field decontaminated soil and groundwater sampling equipment, and disposable tubing were utilized in order to minimize the potential for cross-contamination of the soil and groundwater samples. Additionally, all personnel utilized single-use disposable latex gloves during monitoring well installation and groundwater sample collection to reduce the potential for cross-contamination.

All soil and groundwater sampling activities were performed in general accordance with FDEP SOP 001/01. All groundwater samples were packed on ice immediately following collection and delivered under chain-of-custody to the analytical laboratory. Pace Analytical Services, Inc., a National Environmental Laboratory Accreditation Conference (NELAC) accredited and Florida Department of Health certified laboratory (DOH E83079) performed all analytical testing for the assessment.

All laboratory analytical procedures were performed by Pace Analytical Services, Inc. located in Ormond Beach, Florida.

2.2 Groundwater Assessment

On January 27, 2014, PM installed seven 2-inch permanent monitoring wells (PMW-1 through PMW-7) in the vicinity of the areas where groundwater impacts were previously identified. The monitoring wells were installed using a Geoprobe® drill rig with hollow stem continuous flight auger method to depths of 12 feet below land surface (bls). All wells were constructed using ten feet of 2-inch diameter, 0.010-inch factory slotted polyvinyl chloride (PVC) well screen and two feet of 2-inch diameter PVC casing. A 20/30-grade silica sand pack was placed from the base of the well screen to approximately six inches above the well screen. A six-inch bentonite seal was placed above the sand pack and the monitoring well finished to grade with permanent well cap. The wells were developed using over pumping techniques until relatively clean water was produced and were allowed to equilibrate for a minimum of 24 hours after development before purging and sampling were conducted. The monitoring well locations are shown on Figure 3. Monitoring well construction logs are found in Appendix A and groundwater sampling logs are found in Appendix B.

PM conducted groundwater sampling activities at the subject property on January 28 and 29, 2014. Groundwater samples were collected from the newly installed monitoring wells PMW-1 through PMW-7 and submitted for laboratory analysis of VOCs by EPA Method 8260, PAHs by EPA Method 8270, and TRPHs by FL-PRO Method.

All sampling activities were conducted in accordance with FDEP SOP 001/01. Prior to sample collection, the monitoring wells were purged and stabilized. The groundwater samples were obtained utilizing the peristaltic pump and were subsequently transferred to laboratory supplied sample containers, placed in a cooler, packed with ice, and transported under chain of custody to Pace Analytical Services, Inc. for laboratory analysis.

2.4 Decontamination Procedures

All downhole equipment utilized during the field activities was decontaminated prior to use. Decontamination of said equipment was accomplished by washing with an Alconox and water solution, followed by a distilled water rinse, subsequent isopropanol rinse, and final distilled water rinse. Single-use disposable latex gloves were used during the sampling event in an attempt to eliminate cross-contamination between sampling locations.

3.0 DATA ANALYSIS AND INTERPRETATION

Analysis and interpretation of the data generated during the field investigation and laboratory analyses are presented in the following sections. Where appropriate, the results are compared with applicable regulatory target levels for the chemicals identified in the soil and groundwater.

3.1 Regional Geology and Hydrogeology

Key West is located in the Oolite Keys geomorphologic feature of the Southern or Distal Zone geomorphologic province. The lower Florida Keys are an extension of the same oolitic

limestone lithology underlying Miami and much of the southeastern Florida. The Keys represent coral reef colonies which built up during the Pleistocene Epoch as a result of fluctuations in sea level. The last major drop in sea level exposed the ancient reefs which make up the Keys today.

The Pleistocene age deposits underlying the subject property include, in descending order, the Miami Limestone (Miami Oolite) and the Key Largo Limestone. The Pleistocene deposits are underlain, in descending order, by the Hawthorn Group (Miocene age) and the Suwannee Limestone (Oliocene age).

The Miami Limestone (5 to 35 feet thick) is composed of white-cream to pale orange, crystalline, granular, and porous to cavernous oolitic limestone. The ooliths may be up to 2.0 millimeters (mm) in diameter. The existence and plentitude of corals and other marine fossils indicates deposition in a marine environment. The oolitic limestone is honeycombed with solution holes, giving it an extremely high permeability. Porosity generally increases with depth. The solution holes may connect with channels open to the ocean. This interconnection would allow for interchange of rainwater to the ocean and sea water into the oolitic limestone. The oolitic limestone in Key West extends to a depth of about 200 feet.

The coralline Key Largo Limestone underlies the Miami Limestone in the lower (oolite) keys. The Key Largo Limestone is a white to tan limestone, consisting of lime-sand, coral skeletal remains and invertebrate shells, marine plant and algal debris. The thickness of the Key Largo Limestone varies irregularly from 75 to over 200 feet.

The Hawthorn Group includes the Arcadia and Peace River Formations. The Hawthorn Group consists primarily of interbedded carbonates (limestone, dolostone), quartz sands and clays. The Hawthorn is considered to be a confining unit and is approximately 900 feet thick in the Key West area. The Suwannee Limestone is composed of highly fossiliferous, cream colored limestone and is found approximately 1,300 feet bls in the Key West area.

The Miami and Key Largo Limestones together comprise the surficial aquifer on the island. A freshwater lens exists on the western half of the island. No measurable fresh water lens exists in the eastern half of the island due to extensive areas of artificial fill. A fresh groundwater lens exists on the top of the saltwater due to the density differences. The lens exists under water-table conditions and is found between 5 to 8 feet bls in the site area. The water table fluctuates and the shape of the lens changes due to tidal effects. Precipitation is the primary type of recharge to the fresh water lens. The lens is approximately 5 feet thick (less than 250 milligrams per liter (mg/l) chloride) in the center of the island. The freshwater head is greater in the center of the island where land surface elevations are higher. Ground water moves from the center of the lens and discharges along beaches and salt ponds. Based on regional flow patterns, the surficial aquifer flow in the subject property area is to the southwest.

The surficial aquifer system in Key West is generally not considered to be an adequate or reliable source of potable water. As stated earlier, due to the density differences, a small freshwater lens floats on top the salt water. The freshwater lens on Key West has chloride concentrations varying from zero to 250 mg/l. It is underlain by a number of successively deeper transition zones. These transition zones become progressively more saline with depth and include a very slightly saline water zone (250-400 mg/l), and slightly saline water zone (400-

1,500 mg/l), a moderately saline water zone (1,500-5,000 mg/l) and very saline water zone (5,000-19,000 mg/l). The water table has been known to fluctuate from 0.8 feet above mean sea level (MSL) to 2.4 feet above MSL near the center of Old Town. Tidal effects greatly influence the depth to water table and configuration of the freshwater lens. The freshwater lens averages about 5 inches in thickness in the center of the western half (Old Town) of Key West. The thickness and amount of the freshwater is dependent on precipitation, discharge to the ocean, evapotranspiration and withdrawal. It is underlain by a freshwater-saltwater mixture. This mixture extends to a depth of about 40 feet deep in the center of the island. The salt-water interface (19,000 mg/l chloride) exists around this depth. A number of private wells may tap the fresh-water lens in the western half of the island. Most of them are used primarily for irrigation purposes. However, Florida Keys Aqueduct Authority (FKAA) and Monroe County Health Department (MCHD) report that an undetermined number of residents on the island refuse to hookup to the FKAA water lines and use private wells for portable water.

The Suwannee Limestone forms the upper part of the Floridan aquifer system in south Florida. This aquifer exists under artesian conditions. Water in this aquifer is saline and unsuitable as a potable water source.

3.2 Site Specific Geology

Based on the soil boring logs, the general subsurface soil statigraphy consists of two to three feet of medium to fine brown sand underlain by coral limestone to a depth of 12.0 feet bls, the maximum depth explored. Groundwater was encountered at depths ranging from approximately 3.6 to 4.7 feet bls.

3.3 Groundwater Assessment Results and Evaluation

Concentrations of VOC analytes acetone (PMW-3, PMW-5, PMW-7), benzene (PMW-1 and PMW-2), bromodichloromethane (PMW-3), n-butylbenzene (PMW-1, PMW-2, PMW-3, PMW-5, PMW-6), sec-butylbenzene (PMW-2 through PMW-7), tert-butylbenzene (PMW-5, PMW-6), chloroform (PMW-3, PMW-5), ethylbenzene (PMW-1 and PMW-2), isopropyl benzene (PMW-1, PMW-2, PMW-3, PMW-5, PMW-6, PMW7), p-isopropyltoluene (PMW-1 and PMW-2), n-propylbenzene (PMW-1 through PMW-7), styrene (PMW-1 and PMW-2), toluene (PMW-1 and PMW-2), 1,2,3-trichloropropane (PMW-1), 1,2,3-trimethylbenzene (PMW-1, PMW-2, PMW-3, PMW-6), 1,2,4-trimethylbenzene (PMW-1 and PMW-2), 1,3,5-trimethylbenzene (PMW-1 and PMW-2), and xylenes (PMW-1 and PMW-2) were detected above their respective laboratory MDLs, but below the FDEP GCTLs, except for bromodichloromethane (PMW-3), ethylbenzene (PMW-2), isopropylbenzene (PMW-1, PMW-2, PMW-3, PMW-5, PMW-6, PMW-7), 1,2,3-trichloropropane (PMW-1), 1,2,3-trimethylbenzene (PMW-1 and PMW-2), 1,2,4-trimethylbenzene (PMW-1 and PMW-2), 1,3,5-trimethylbenzene (PMW-1), and xylenes (PMW-1 and PMW-2). The analytes detected above the FDEP GCTLs were below their respective Natural Attenuation Default Concentrations (NADCs), except for isopropyl benzene at PMW-1 and PMW-2, and 1,2,4-trichloropropane at PMW-1. No other VOCs were detected above the laboratory MDLs in the groundwater samples collected.

Concentrations of PAH analytes acenaphthene (PMW-1 through PMW-7), acenaphthylene (PMW-1 through PMW-7), anthracene (PMW-1 through PMW-7), benzo(a)anthracene (PMW-1 and PMW-2), benzo(a)pyrene (PMW-2), benzo(b)fluoranthene (PMW-1 and PMW-2),

benzo(k)fluoranthene (PMW-1), benzo(g,h,i)perylene (PMW-2), chrysene (PMW-1 through PMW-3), fluoranthene (PMW-1 through PMW-6), fluorene (PMW-1 through PMW-7), indeno(1,2,3-cd)pyrene (PMW-2), naphthalene (PMW-1, PMW-2, PMW-3, PMW-6), phenanthrene (PMW-1 through PMW-7), pyrene (PMW-1 through PMW-7), 1-methylnaphthalene (PMW-1, PMW-2, PMW-3, PMW-5, PMW-6, PMW-7), and 2-methylnaphthalene (PMW-1, PMW-2, PMW-3, PMW-5, PMW-6, PMW-7) were detected above their respective laboratory MDLs, but below the FDEP GCTLs, except for acenaphthene (PMW-2), benzo(a)anthracene (PMW-1 and PMW-2), benzo(b)fluoranthene (PMW-2), naphthalene (PMW-1 and PMW-2), 1-methylnaphthalene and 2-methylnaphthalene (PMW-1, PMW-2, PMW-3, PMW-5 and PMW-6). The concentrations of naphthalene (PMW-1 and PMW-2), and 2-methylnaphthalene (PMW-1) were also detected above their respective NADCs. No other PAHs were detected above the laboratory MDLs in the groundwater samples collected.

Concentrations TRPHs were detected in all the groundwater samples collected above their respective laboratory MDLs, but below the FDEP GCTL, except for the sample collected at PMW-1. The TRPH concentration at PMW-1 was below the NADC.

A summary of the groundwater analytical results is presented in Table 1 and on Figure 3. The laboratory analytical results are presented in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

PM has conducted a site assessment for the subject property known as the Former Key West Gas and Electric Company located at 101-111 Geraldine Street in Key West, Monroe County, Florida in accordance with the requirements of Chapter 62-770, FAC. The SAR investigation scope was based upon PM's Phase II ESA and review of previous reports. Based upon the completion of this work, PM believes that the property has been thoroughly investigated and that all potential sources of contamination at the site have been evaluated.

In PM's opinion, the monitoring wells advanced and groundwater samples collected were adequate to address the former gas and electric plant operations on the subject property. Laboratory analytical results of the SAR completed identified the following:

- VOC analytes bromodichloromethane (PMW-3), ethylbenzene (PMW-2), isopropyl benzene (PMW-1 to PMW-3 and PMW-5 to PMW-7), 1,2,3-trichloropropane (PMW-1), 1,2,3-trimethylbenzene (PMW-1 and PMW-2), 1,2,4-trimethylbenzne (PMW-1 and PMW-2), 1,3,5-trimethylbenzene (PMW-1), and xylenes (PMW-1 and PMW-2) were identified in the groundwater samples collected at concentrations that exceeded the GCTL criteria as set forth in Chapter 62-777, FAC, but were below the NADCs. Concentrations of isopropyl benzene at PMW-1 (48.4 µg/l) and PMW-2 (12.0 µg/l) exceeded the NADCs. No other VOCs were detected above the GCTLs and/or NADCs in the groundwater samples collected at the subject property.

- PAH analytes acenaphthalene (PMW-2), benzo(a)anthracene (PMW-1 and PMW-2), benzo(b)fluoranthene (PMW-2), naphthalene (PMW-1 and PMW-2), 1-methylnaphthalene,

and 2-methylnaphthalene were identified in the groundwater samples collected at concentrations that exceed their respective GCTL criteria as set forth in Chapter 62-777, FAC, but were below the NADCs. Concentrations of naphthalene at PMW-1 (1,480 µg/l) and PMW-2 (219 µg/l), and 2-methylnaphthalene at PMW-2 (335 µg/l) exceeded their respective NADCs. No other PAHs were detected above the GCTLs and/or NADCs in the groundwater samples collected at the subject property.

- TRPH was identified in the groundwater sample collected PMW-1 at a concentration that exceeds the GCTL criteria as set forth in Chapter 62-777, FAC, but below the NADCs. No other TRPH concentrations were detected above the GCTLs in the groundwater samples collected at the subject property.

4.2 Recommendations

The borings, temporary monitoring wells, and permanent monitoring wells have investigated the known sources of VOCs and PAHs on the subject property. The SAR groundwater sampling event indicates that VOC and PAH groundwater impact is defined on the subject property, with the exception of the vicinity of PMW-1, where off-site migration is likely. Due to the tidal effects influencing the surficial groundwater flow, and a highly variable lateral water table gradient, solute transport may be a function of these fluctuating gradients, combined with molecular diffusion and lateral dispersion. A more detailed analysis on the localized groundwater flow and gradient is planned for the next monitoring event.

PM recommends the implementation of a Monitoring Only Program (MOP) to include quarterly monitoring of the groundwater for a minimum of one year. Additionally, based on the analytical results from PMW-1, the proximity to the property boundary, and the high tidal influence, additional wells may be required to further delineate the groundwater impact. The next quarterly sampling event is scheduled for the week of April 21, 2014.

This report has been reviewed for its completeness and accuracy. Please feel free to contact our office at (954) 924-1801 to discuss this report.

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Tables

PM ENVIRONMENTAL Environmental & Engineering Services

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS, POLYNUCLEAR AROMATIC HYDROCARBONS, AND TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
101-111 GERALDINE STREET, KEY WEST, FLORIDA
PM PROJECT NO. 06-3668-4
FDEP Comet Site ID #303264

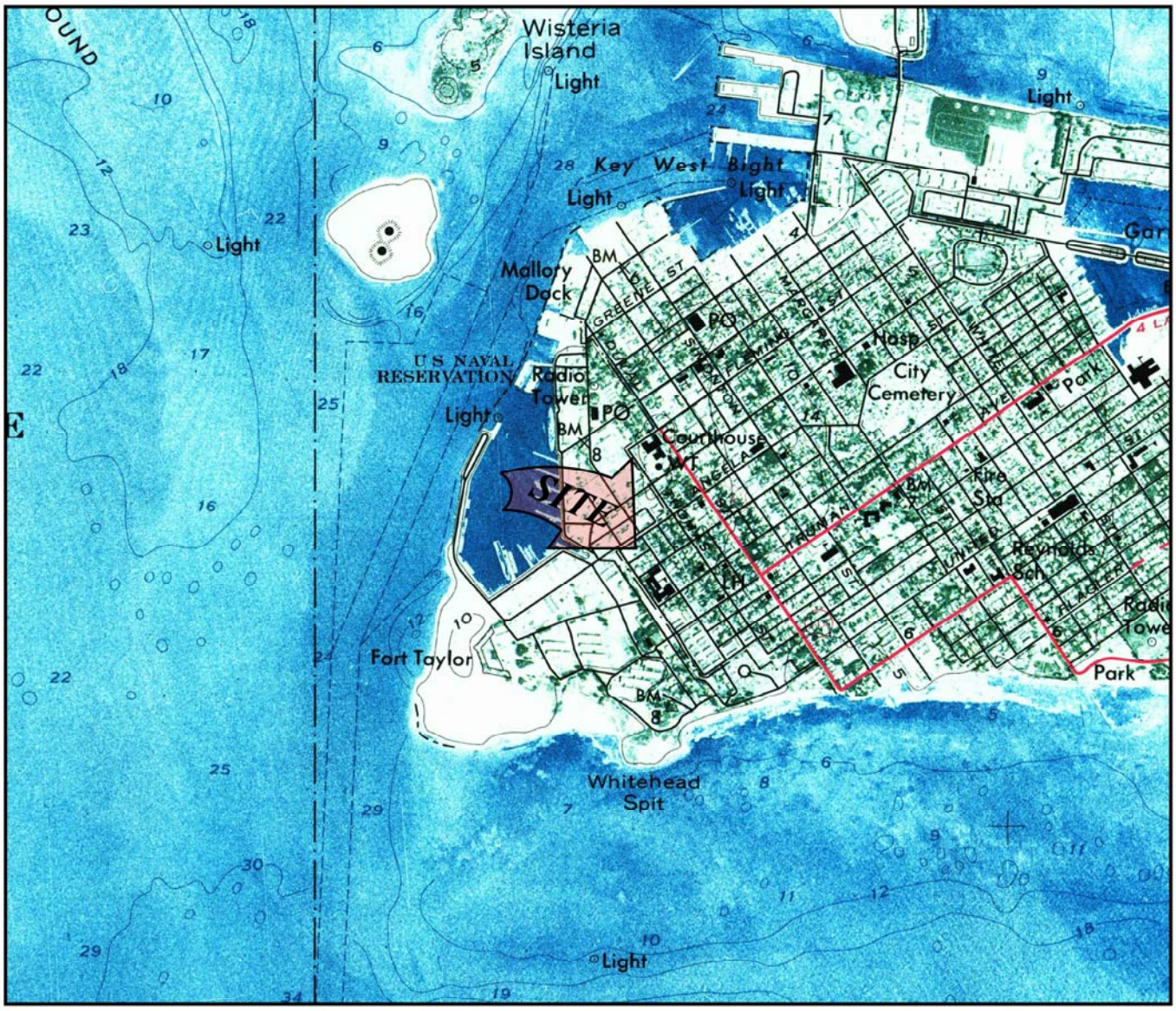
Volatile Organic Compounds, Polynuclear Aromatic Hydrocarbons, and Total Recoverable Petroluem Hydrocarbons (ug/L)				Acetone	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	Dibromochloromethane	Ethylbenzene	Isopropyl benzene	p-Isopropyltoluene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichloropropane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes	Other VOCs
Chemical Abstract Service Number (CAS #)				67641	71432	75274	104518	135988	98066	67663	124481	100414	98828	99876	103651	100425	108883	96184	526738	95636	108678	1330207	Various
Sample ID	Sample Date	Screen Depth (bgs)	Depth to Groundwater (bgs)	VOCs																			
PM's Phase II ESA dated October 8, 2013																							
TMW-1	9/4/2013	2.0-12.0	4.2	5.0 U	0.1 U	**3.7**	4.7	0.50 U	0.50 U	2.7	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
TMW-4	9/4/2013	2.0-12.0	3.5	9.7 I	0.1 U	**3.5**	0.50 U	0.50 U	0.50 U	2.1	0.26 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.36 U	1.0 U	4.1	0.50 U	0.50 U	ND
TMW-5D	9/4/2013	20.0-25.0	3.6	5.0 U	0.1 U	0.27 U	0.50 U	0.50 U	0.50 U	0.50 U	0.26 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
TMW-6D	9/4/2013	20.0-25.0	4.0	5.0 U	0.1 U	0.27 U	0.50 U	0.50 U	0.50 U	0.50 U	0.26 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
TMW-7	9/4/2013	2.0-12.0	4.6	5.0 U	0.1 U	**3.1**	5.2	1.1	0.50 U	1.6	0.26 U	0.50 U	**4.6**	0.50 U	5.1	0.50 U	0.50 U	0.36 U	1.0 U	4.1	0.50 U	0.50 U	ND
TMW-8	9/4/2013	2.0-12.0	4.4	5.0 U	0.38 I	0.27 U	0.50 U	0.50 U	0.50 U	0.50 U	0.26 U	**296**	**36.4**	10.3	17.6	5.0	5.6	**5.5**	**67.8**	**128**	**66.1**	**224**	ND
TMW-9	9/4/2013	1.7-11.7	3.7	5.0 U	0.1 U	0.27 U	6.0	2.7	0.50 U	0.59 I	0.26 U	0.50 U	**7.3**	0.50 U	9.2	0.50 U	0.50 U	0.36 U	1.1	5.2	0.62 I	0.88 I	ND
TMW-10	9/4/2013	2.0-12.0	4.2	5.0 U	0.1 U	0.27 U	6.0	1.9	0.50 U	0.50 U	0.26 U	0.50 U	**5.3**	0.50 U	7.5	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
TMW-11	9/4/2013	2.0-12.0	4.6	5.0 U	0.1 U	0.27 U	0.50 U	0.50 U	0.50 U	0.50 U	0.26 U	0.50 U	**3.1**	0.50 U	2.4	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
TMW-14	9/4/2013	1.3-11.3	2.7	5.0 U	0.1 U	0.27 U	0.50 U	0.50 U	0.50 U	0.50 U	0.26 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
Site Assessment and 1st Quarter MOP dated March 3, 2014																							
PMW-1	1/28/2014	1.90-11.90	4.7	10.0 U	0.21 I	0.27 U	3.0	0.50 U	0.50 U	0.50 U	0.26 U	3.3	**48.4**	5.6	15.7	1.4	1.1	**2.4**	**61.6**	**86.3**	**85.2**	**71.9**	ND
PMW-2	1/28/2014	2.20-12.20	4.0	10.0 U	0.11 I	0.27 U	0.88 I	1.4	0.50 U	0.50 U	0.26 U	**38.4**	**12.0**	3.8	4.5	0.50 I	1.0	0.36 U	**18.7**	**29.0**	7.1	**26.9**	ND
PMW-3	1/28/2014	2.25-12.25	4.0	13.0 I	0.10 U	**0.69**	1.4	1.8	0.50 U	1.0	0.26 U	0.50 U	**4.4**	0.50 U	6.4	0.50 U	0.50 U	0.36 U	1.1	0.50 U	0.50 U	0.50 U	ND
PMW-4	1/28/2014	2.30-12.30	4.2	10.0 U	0.10 U	0.27 U	0.50 U	0.84 I	0.50 U	0.50 U	0.26 U	0.50 U	0.50 U	0.50 U	1.5	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
PMW-5	1/28/2014	2.30-12.30	4.3	10.9 I	0.10 U	0.27 U	0.85 I	2.0	0.51 I	1.3	0.26 U	0.50 U	**3.6**	0.50 U	4.9	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
PMW-6	1/28/2014	2.10-12.10	4.0	10.0 U	0.10 U	0.27 U	1.7	2.4	0.54 I	0.50 U	0.26 U	0.50 U	**3.9**	0.50 U	6.4	0.50 U	0.50 U	0.36 U	1.2	0.50 U	0.50 U	0.50 U	ND
PMW-7	1/28/2014	2.25-12.25	3.6	11.6 I	0.10 U	0.27 U	0.50 U	0.78 I	0.50 U	0.50 U	0.26 U	0.50 U	**1.1**	0.50 U	2.7	0.50 U	0.50 U	0.36 U	1.0 U	0.50 U	0.50 U	0.50 U	ND
Groundwater Cleanup Target Levels Chapter 62-777 of the Florida Administrative Code																							
Groundwater Criteria				6,300	1	0.6	NL	280	NL	70	0.4	30	0.8	NL	NL	100	40	0.02	10	10	10	20	Various
Natural Attenuation Default Concentrations				63,000	100	60	NL	2,800	NL	700	40	300	8	NL	NL	1,000	400	2	100	100	100	200	Various

Volatile Organic Compounds, Polynuclear Aromatic Hydrocarbons, and Total Recoverable Petroluem Hydrocarbons (ug/L)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Other PAHs	Total Recoverable Petroleum Hydrocarbons
Chemical Abstract Service Number (CAS #)	83329	208968	120127	56553	50328	205992	207089	191242	218019	53703	206440	86737	193395	91203	85018	129000	90120	91576	Various	Various
Sample ID	PAHs																			TRPH
PM's Phase II ESA dated October 8, 2013																				
TMW-1	0.56	0.33	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	2.4	0.025 U	1.0 U	1.9	0.025 U	1.0 I	1.0 U	ND	280
TMW-4	0.72	0.18	0.11	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	4.3	0.025 U	0.025 U	1.0 U	1.0 U	ND	66 I
TMW-5D	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	1.0 U	0.20	0.025 U	1.0 U	1.0 U	ND	59 U
TMW-6D	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	3.0	0.72	0.63	1.0 U	1.0 U	ND	59 U
TMW-7	1.3	0.34	0.12	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	3.0	0.025 U	4.7	2.9	0.025 U	8.7	1.0 U	ND	400
TMW-8	40.6	40.2	13.4	2.1	2.1	1.6	0.025 U	0.55	2.2	**0.20**	7.0	57.6	0.36	**2,400**	89.2	16.6	**543**	**560**	ND	**22,000**
TMW-9	2.4	0.65	0.18	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	5.5	0.025 U	**1,190**	5.6	0.025 U	**61.6**	**56.6**	ND	4,200
TMW-10	2.4	0.82	0.15	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	5.4	0.025 U	1.0 I	6.3	0.025 U	**133**	**140**	ND	3,300
TMW-11	1.1	0.20	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	1.7	0.025 U	2.1	1.9	0.025 U	11.8	4.7	ND	240
TMW-14	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	1.0 U	0.025 U	0.025 U	1.0 U	1.0 U	ND	60 U
Site Assessment and 1st Quarter MOP dated March 3, 2014																				
PMW-1	14.4	27.5	4.6	**0.16**	0.025 U	0.027 I	0.028 I	0.025 U	0.18	0.025 U	2.4	21.0	0.025 U	**1,480**	41.7	4.9	**259**	**335**	ND	**6,300**
PMW-2	**37.1**	11.2	5.5	**0.54**	0.14	**0.12**	0.025 U	0.043 I	0.49	0.025 U	5.8	9.7	0.026 I	**219**	55.0	12.1	**187**	**62.4**	ND	2,300
PMW-3	2.2	0.60	0.35	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.035 I	0.025 U	0.51	4.0	0.025 U	2.6	4.4	0.88	**55.1**	**55.2**	ND	930
PMW-4	0.48	0.18	0.12	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.047 I	1.1	0.025 U	1.0 U	0.37	0.072 I	1.0 U	1.0 U	ND	230
PMW-5	1.0	0.36	0.21	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.049 I	2.4	0.025 U	1.0 U	2.6	0.12	**35.5**	**46.6**	ND	810
PMW-6	2.1	0.67	0.28	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.077 I	3.9	0.025 U	2.6	4.2	0.10	**61.0**	**88.5**	ND	1,700
PMW-7	0.42	0.16	0.094 I	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	1.0	0.025 U	1.0 U	1.1	0.036 I	11.1	12.6	ND	340
Groundwater Cleanup Target Levels Chapter 62-777 of the Florida Administrative Code																				
Groundwater Criteria	20	210	2,100	0.05	0.2	0.05	0.5	210	4.8	0.005	280	280	0.05	14	210	210	28	28	Various	5,000
Natural Attenuation Default Concentrations	200	2,100	21,000	5	20	5	50	2,100	480	0.5	2,800	2,800	5	140	2,100	2,100	280	280	Various	50,000

Applicable Criteria Exceeded
BOLD Value Exceeds Applicable Criteria
ug/L Micrograms per Liter
bgs Below Ground Surface (feet)
ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)
I The reported value is between the laboratory MDL and the laboratory practical quantitation limit
U Indicates the compound was analyzed for, but not detected
NL Not Listed

Figures

PM ENVIRONMENTAL Environmental & Engineering Services



FLORIDA QUADRANGLE LOCATION

MONROE COUNTY

SCALE 1:24,000

1 MILE 1/2 MILE 0 1 MILE

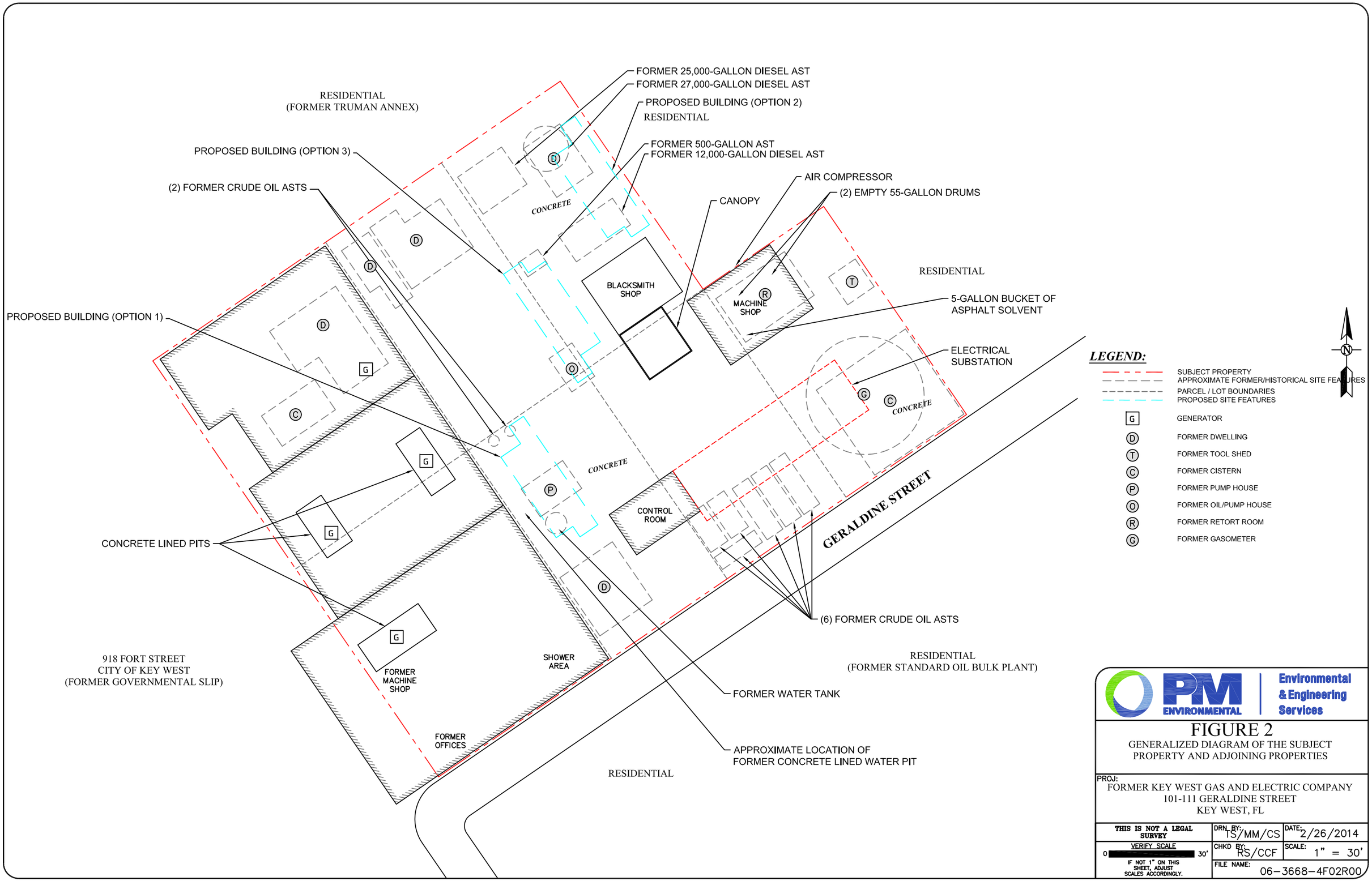
FIGURE 1

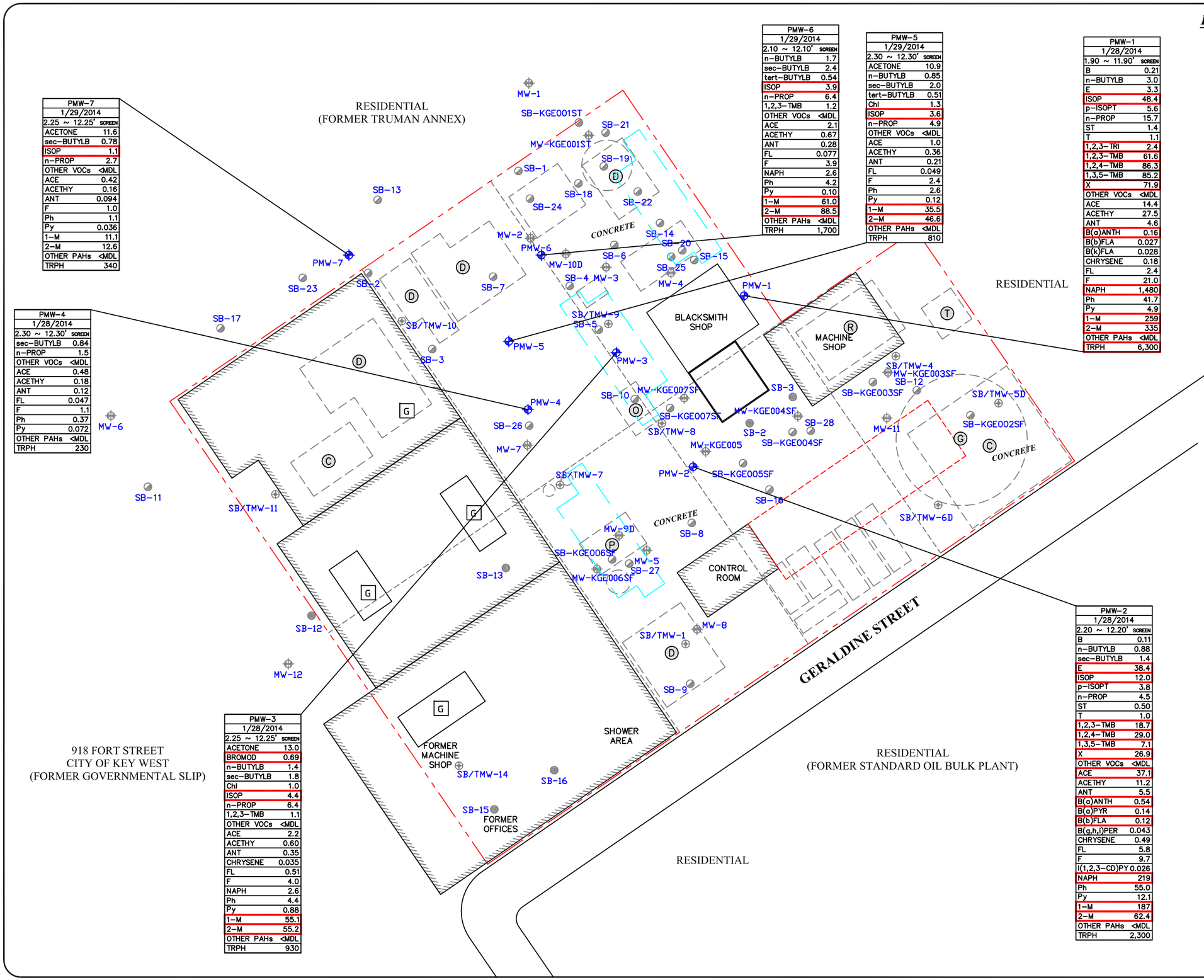
PROPERTY VICINITY MAP

USGS, 7.5 MINUTE SERIES

KEY WEST, FL QUADRANGLE, 1971.

PM ENVIRONMENTAL Environmental & Engineering Services	PROJ: FORMER KEY WEST GAS AND ELECTRIC COMPANY 101-111 GERALDINE STREET KEY WEST, FL	THIS IS NOT A LEGAL SURVEY VERIFY SCALE 0 2,000' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	DRN BY: TS/CS	DATE: 2/10/2014
			CHKD BY: RS/CCF	SCALE: 1" = 2,000'
			FILE NAME: 06-3668-4F01R00	


RESIDENTIAL
(FORMER TRUMAN ANNEX)
FORMER 25,000-GALLON DIESEL AST
FORMER 27,000-GALLON DIESEL AST
PROPOSED BUILDING (OPTION 2)
RESIDENTIAL
PROPOSED BUILDING (OPTION 3)
FORMER 500-GALLON AST
FORMER 12,000-GALLON DIESEL AST
(2) FORMER CRUDE OIL ASTS
AIR COMPRESSOR
(2) EMPTY 55-GALLON DRUMS
CANOPY
CONCRETE
BLACKSMITH SHOP
MACHINE SHOP
RESIDENTIAL
5-GALLON BUCKET OF ASPHALT SOLVENT
PROPOSED BUILDING (OPTION 1)
ELECTRICAL SUBSTATION
CONCRETE
CONCRETE
CONTROL ROOM
GERALDINE STREET
CONCRETE LINED PITS
(6) FORMER CRUDE OIL ASTS
918 FORT STREET
CITY OF KEY WEST
(FORMER GOVERNMENTAL SLIP)
SHOWER AREA
FORMER MACHINE SHOP
RESIDENTIAL
(FORMER STANDARD OIL BULK PLANT)
FORMER WATER TANK
FORMER OFFICES
APPROXIMATE LOCATION OF FORMER CONCRETE LINED WATER PIT
RESIDENTIAL
LEGEND:
SUBJECT PROPERTY
APPROXIMATE FORMER/HISTORICAL SITE FEATURES
PARCEL / LOT BOUNDARIES
PROPOSED SITE FEATURES
G GENERATOR
D FORMER DWELLING
T FORMER TOOL SHED
C FORMER CISTERN
P FORMER PUMP HOUSE
O FORMER OIL/PUMP HOUSE
R FORMER RETORT ROOM
G FORMER GASOMETER
N
PM ENVIRONMENTAL
Environmental & Engineering Services
FIGURE 2
GENERALIZED DIAGRAM OF THE SUBJECT PROPERTY AND ADJOINING PROPERTIES
PROJ:
FORMER KEY WEST GAS AND ELECTRIC COMPANY
101-111 GERALDINE STREET
KEY WEST, FL
THIS IS NOT A LEGAL SURVEY
VERIFY SCALE
0 30'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DRN BY: TS/MM/CS
DATE: 2/26/2014
CHKD BY: RS/CCF
SCALE: 1" = 30'
FILE NAME: 06-3668-4F02R00



PMW-7	
1/29/2014	
2.25 ~ 12.25' SCREEN	
ACETONE	11.6
sec-BUTYLB	0.78
ISOP	1.1
n-PROP	2.7
OTHER VOCs	<MDL
ACE	0.42
ACETHY	0.16
ANT	0.094
F	1.0
Ph	1.1
Py	0.036
1-M	11.1
2-M	12.6
OTHER PAHs	<MDL
TRPH	340

PMW-4	
1/28/2014	
2.30 ~ 12.30' SCREEN	
sec-BUTYLB	0.84
n-PROP	1.5
OTHER VOCs	<MDL
ACE	0.48
ACETHY	0.18
ANT	0.12
FL	0.047
F	1.1
Ph	0.37
Py	0.072
OTHER PAHs	<MDL
TRPH	230

PMW-3	
1/28/2014	
2.25 ~ 12.25' SCREEN	
ACETONE	13.0
BROMOD	0.69
n-BUTYLB	1.4
sec-BUTYLB	1.8
Chl	1.0
ISOP	4.4
n-PROP	6.4
1,2,3-TMB	1.1
OTHER VOCs	<MDL
ACE	2.2
ACETHY	0.60
ANT	0.35
CHRYSENE	0.035
FL	0.51
F	4.0
NAPH	2.6
Ph	4.4
Py	0.88
1-M	55.1
2-M	55.2
OTHER PAHs	<MDL
TRPH	930

PMW-6	
1/29/2014	
2.10 ~ 12.10' SCREEN	
n-BUTYLB	1.7
sec-BUTYLB	2.4
tert-BUTYLB	0.54
ISOP	3.9
n-PROP	6.4
1,2,3-TMB	1.2
OTHER VOCs	<MDL
ACE	2.1
ACETHY	0.67
ANT	0.28
FL	0.077
F	3.9
NAPH	2.6
Ph	4.2
Py	0.10
1-M	61.0
2-M	88.5
OTHER PAHs	<MDL
TRPH	1,700

PMW-5	
1/29/2014	
2.30 ~ 12.30' SCREEN	
ACETONE	10.9
n-BUTYLB	0.85
sec-BUTYLB	2.0
tert-BUTYLB	0.51
Chl	1.3
ISOP	3.6
n-PROP	4.9
OTHER VOCs	<MDL
ACE	1.0
ACETHY	0.36
ANT	0.21
FL	0.049
F	2.4
Ph	2.6
Py	0.12
1-M	35.5
2-M	46.6
OTHER PAHs	<MDL
TRPH	810

PMW-1	
1/28/2014	
1.90 ~ 11.90' SCREEN	
B	0.21
n-BUTYLB	3.0
E	3.3
ISOP	48.4
p-ISOPT	5.6
n-PROP	15.7
ST	1.4
T	1.1
1,2,3-TRI	2.4
1,2,3-TMB	61.6
1,2,4-TMB	86.3
1,3,5-TMB	85.2
X	71.9
OTHER VOCs	<MDL
ACE	14.4
ACETHY	27.5
ANT	4.6
B(a)ANTH	0.16
B(b)FLA	0.027
B(k)FLA	0.028
CHRYSENE	0.18
FL	2.4
F	21.0
NAPH	1,480
Ph	41.7
Py	4.9
1-M	259
2-M	335
OTHER PAHs	<MDL
TRPH	6,300

PMW-2	
1/28/2014	
2.20 ~ 12.20' SCREEN	
B	0.11
n-BUTYLB	0.88
sec-BUTYLB	1.4
E	38.4
ISOP	12.0
p-ISOPT	3.8
n-PROP	4.5
ST	0.50
T	1.0
1,2,3-TMB	18.7
1,2,4-TMB	29.0
1,3,5-TMB	7.1
X	26.9
OTHER VOCs	<MDL
ACE	37.1
ACETHY	11.2
ANT	5.5
B(a)ANTH	0.54
B(a)PYR	0.14
B(b)FLA	0.12
B(g,h,i)PER	0.043
CHRYSENE	0.49
FL	5.8
F	9.7
I(1,2,3-CD)PY	0.026
NAPH	219
Ph	55.0
Py	12.1
1-M	187
2-M	62.4
OTHER PAHs	<MDL
TRPH	2,300

LEGEND:

- SUBJECT PROPERTY
- APPROXIMATE FORMER/HISTORICAL SITE FEATURES
- PARCEL / LOT BOUNDARIES
- PROPOSED SITE FEATURES
- G — GENERATOR
- D — FORMER DWELLING
- T — FORMER TOOL SHED
- C — FORMER CISTERN
- P — FORMER PUMP HOUSE
- O — FORMER OIL/PUMP HOUSE
- R — FORMER RETORT ROOM
- G — FORMER GASOMETER
- FORMER SOIL BORING
- FORMER MONITORING WELL
- FORMER SOIL BORING
- FORMER SOIL BORING / TEMPORARY MONITORING WELL
- MONITORING WELL

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
F	FLUORENE
Ph	PHENANTHRENE
Py	PYRENE
ST	STYRENE
FL	FLUORANTHENE
ANT	ANTHRACENE
ACE	ACENAPHTHENE
Chl	CHLOROFORM
ACETHY	ACENAPHTHYLENE
B(a)ANTH	BENZO(a)ANTHRACENE
B(a)PYR	BENZO(a)PYRENE
B(b)FLA	BENZO(b)FLUORANTHENE
B(g,h,i)PER	BENZO(g,h,i)PERYLENE
B(k)FLA	BENZO(k)FLUORANTHENE
1-M	1-METHYLNAPHTHALENE
2-M	2-METHYLNAPHTHALENE
NAPH	NAPHTHALENE
1,2,3-TRI	1,2,3-TRICHLOROPROPANE
1,2,4-TMB	1,2,4-TRIMETHYLBENZENE
1,3,5-TMB	1,3,5-TRIMETHYLBENZENE
1,2,3-TMB	1,2,3-TRIMETHYLBENZENE
I(1,2,3-CD)PY	INDENO(1,2,3,CD)PYRENE
ISOP	ISOPROPYLBENZENE
p-ISOPT	p-ISOPROPYLTOLUENE
n-PROP	n-PROPYLBENZENE
n-BUTYLB	n-BUTYLBENZENE
sec-BUTYLB	sec-BUTYLBENZENE
tert-BUTYLB	tert-BUTYLBENZENE
BROMOD	BROMODICHLOROMETHANE
VOCs	VOLATILE ORGANIC COMPOUNDS
PAHs	POLYNUCLEAR AROMATIC COMPOUNDS
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
MDL	METHOD DETECTION LIMIT
UNITs	µg/L
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

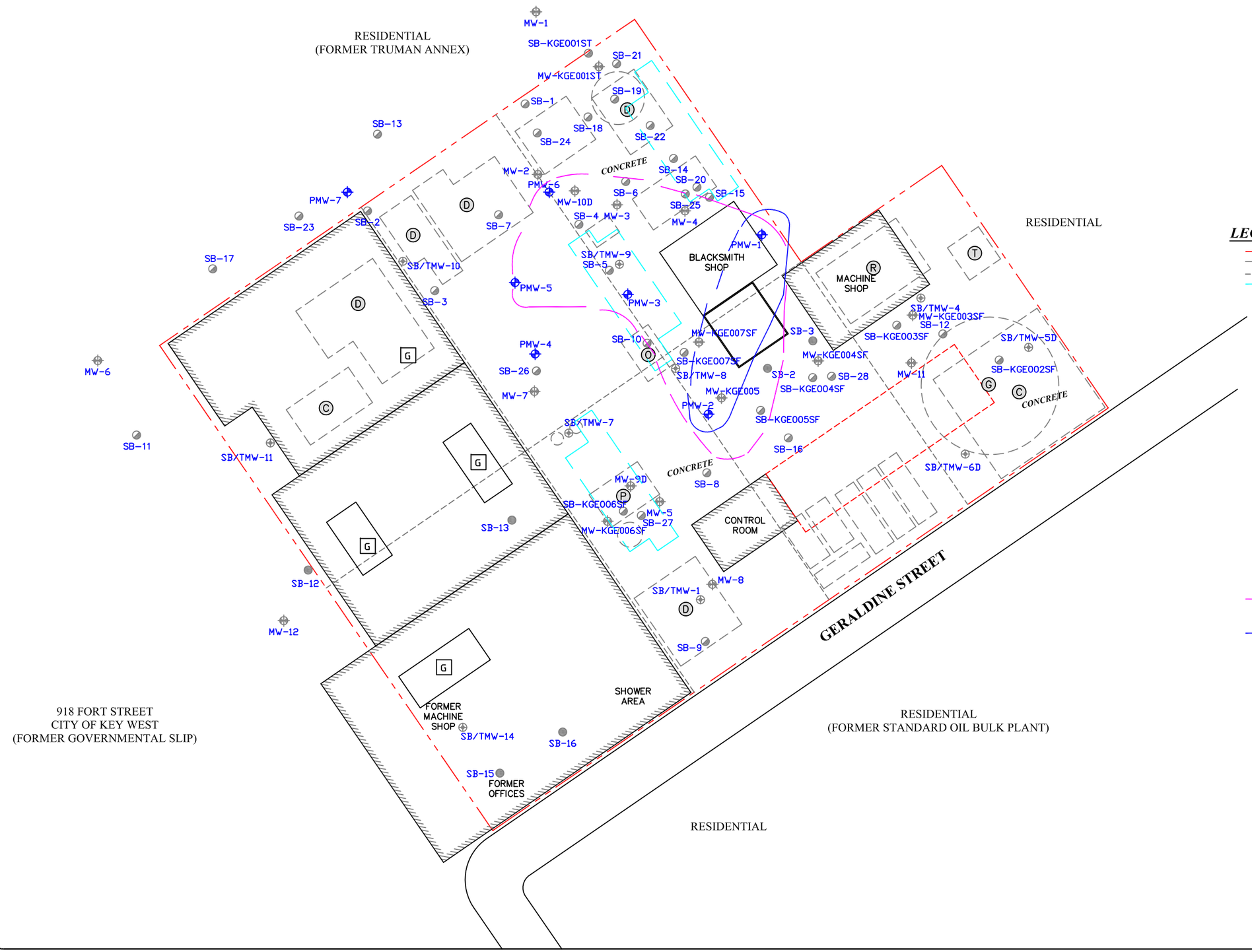
PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 3

SOIL BORING/MONITORING WELL LOCATION MAP WITH GROUNDWATER ANALYTICAL RESULTS

PROJ: FORMER KEY WEST GAS AND ELECTRIC COMPANY
101-111 GERALDINE STREET
KEY WEST, FL

THIS IS NOT A LEGAL SURVEY	DRN BY: TS/MM/CS	DATE: 2/17/2014
VERIFY SCALE 0 [redacted] 30' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: RS/CCF	SCALE: 1" = 30'
	FILE NAME: 06-3668-4F03R00	



LEGEND:

- SUBJECT PROPERTY
- APPROXIMATE FORMER/HISTORICAL SITE FEATURES
- PARCEL / LOT BOUNDARIES
- PROPOSED SITE FEATURES
- G — GENERATOR
- D — FORMER DWELLING
- T — FORMER TOOL SHED
- C — FORMER CISTERN
- P — FORMER PUMP HOUSE
- O — FORMER OIL/PUMP HOUSE
- R — FORMER RETORT ROOM
- G — FORMER GASOMETER
- FORMER SOIL BORING
- FORMER MONITORING WELL
- FORMER SOIL BORING
- FORMER SOIL BORING / TEMPORARY MONITORING WELL
- MONITORING WELL
- APPROXIMATE EXTENT OF 1-METHYLNAPHTHALENE AND 2-METHYLNAPHTHALENE GROUNDWATER IMPACT 28 ug/L
- APPROXIMATE EXTENT OF TRIMETHYLBENZENE GROUNDWATER IMPACT 10ug/L

PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 4

GROUNDWATER CONCENTRATION MAP
(1/2014)

PROJ:
FORMER KEY WEST GAS AND ELECTRIC COMPANY
101-111 GERALDINE STREET
KEY WEST, FL

THIS IS NOT A LEGAL SURVEY	DRN BY: TS/MM/CS	DATE: 2/26/2014
VERIFY SCALE 0 30' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: RS/CCF	SCALE: 1" = 30'
	FILE NAME: 06-3668-4F04R00	

Appendix A

PM ENVIRONMENTAL Environmental & Engineering Services

Well Log: .

Project No.: 06-3668-4 **Well No.:** PMW-1

Project Name: Former Key West Gas & Electric **Date Drilled:** 1/27/2014

Facility ID#: **Drill Rig:** Geoprobe

Logged By: CCF **Sampling Method:**

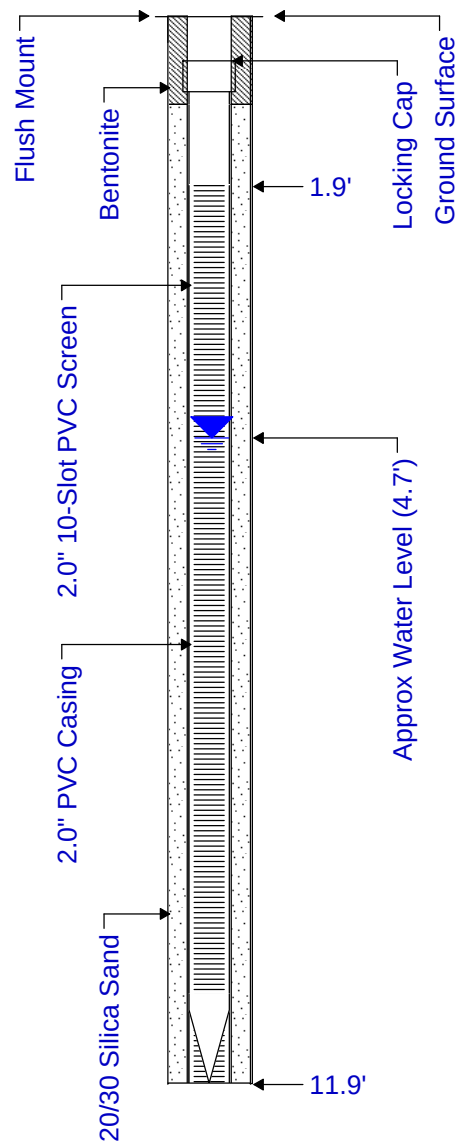
SUBSURFACE PROFILE

Depth (ft.)	Boring Profile	Description and Comments
		Ground Surface
0		***SP- SAND*** Dark Brown, fine
2		***SP- SAND*** Gray, fine
		LS- LIMESTONE (saturated)
4		
6		
8		
10		
12		

SAMPLE

Sample # Depth	Blow Counts	FID (ppm)
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0

Well Completion Details



Completion Notes: EOB @ 12' bgs.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Well Log: .

Project No.: 06-3668-4 **Well No.:** PMW-2

Project Name: Former Key West Gas & Electric **Date Drilled:** 1/27/2014

Facility ID#: **Drill Rig:** Geoprobe

Logged By: CCF **Sampling Method:**

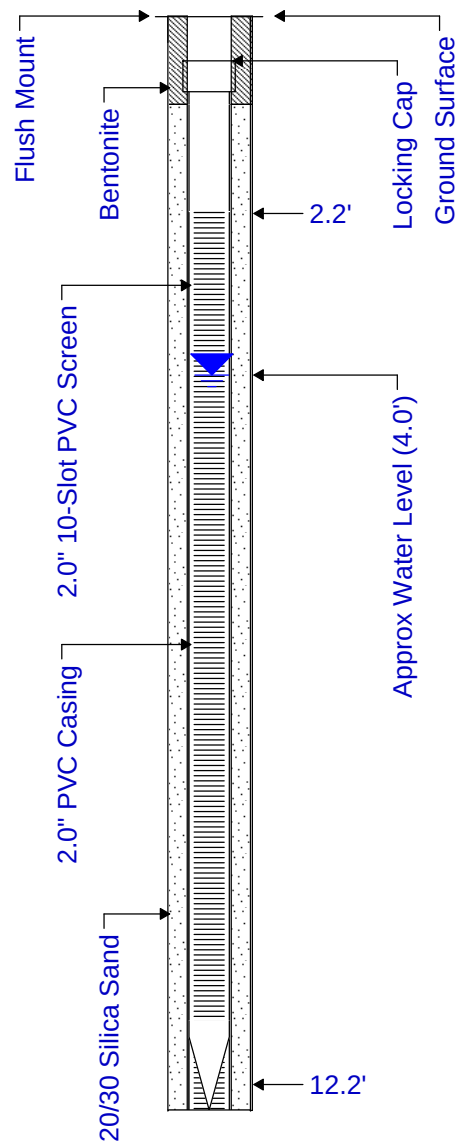
SUBSURFACE PROFILE

Depth (ft.)	Boring Profile	Description and Comments
		Ground Surface
0		***SP- SAND*** Dark Brown, fine
2		***SP- SAND*** Gray, fine
		LS- LIMESTONE (saturated)
4		
6		
8		
10		
12		

SAMPLE

Sample # Depth	Blow Counts	FID (ppm)
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0

Well Completion Details



Completion Notes: EOB @ 12' bgs.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Well Log: .

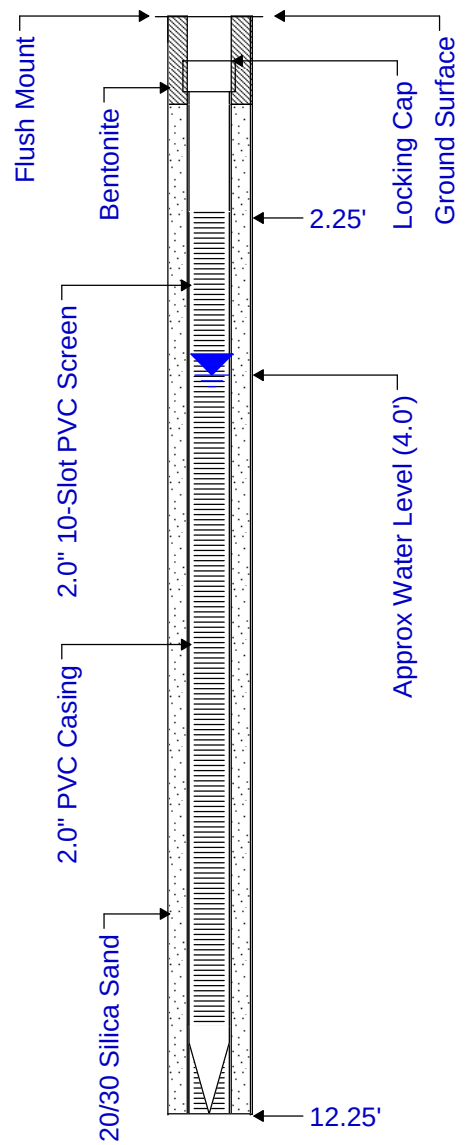
Project No.: 06-3668-4 **Well No.:** PMW-3

Project Name: Former Key West Gas & Electric **Date Drilled:** 1/27/2014

Facility ID#: **Drill Rig:** Geoprobe

Logged By: CCF **Sampling Method:**

SUBSURFACE PROFILE			SAMPLE			Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	FID (ppm)	
		Ground Surface				
0		***SP- SAND*** Dark Brown, fine		-	0.0	
				-	0.0	
2		***SP- SAND*** Gray, fine		-	0.0	
		LS- LIMESTONE (saturated)		-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12						



Completion Notes: EOB @ 12' bgs.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Well Log: .

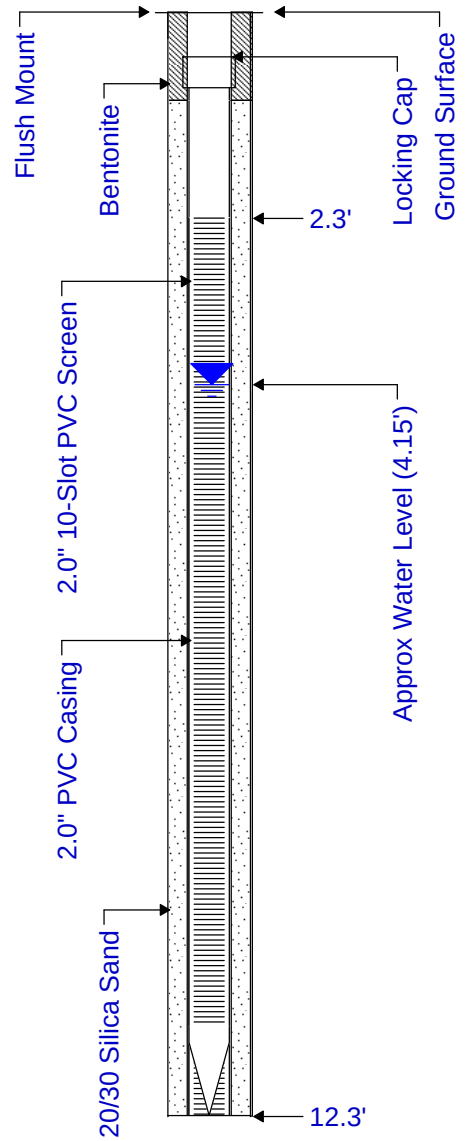
Project No.: 06-3668-4 **Well No.:** PMW-4

Project Name: Former Key West Gas & Electric **Date Drilled:** 1/27/2014

Facility ID#: **Drill Rig:** Geoprobe

Logged By: CCF **Sampling Method:**

SUBSURFACE PROFILE			SAMPLE			Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	FID (ppm)	
		Ground Surface				
0		***SP- SAND*** Dark Brown, fine		-	0.0	
				-	0.0	
2		***SP- SAND*** Gray, fine		-	0.0	
		LS- LIMESTONE (saturated)		-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12						



Completion Notes: EOB @ 12' bgs.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Well Log: .

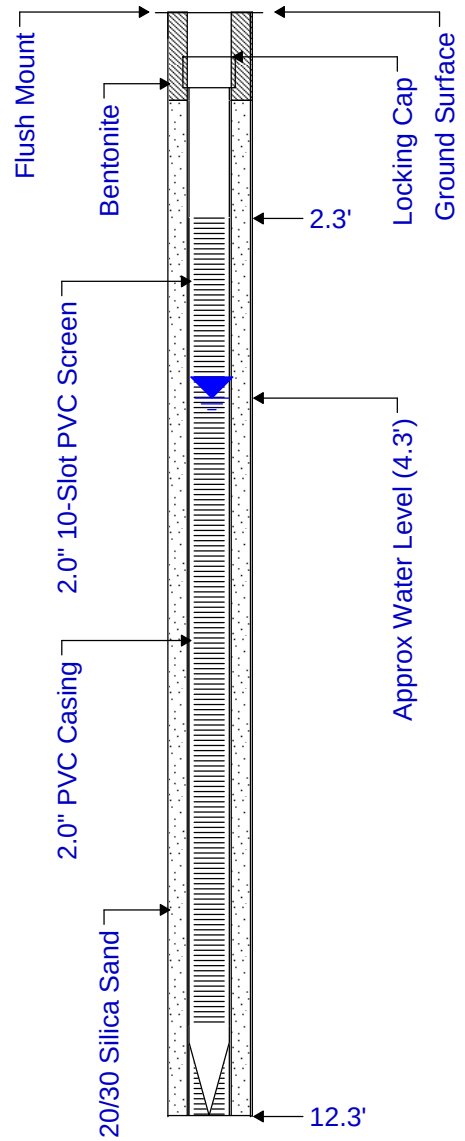
Project No.: 06-3668-4 **Well No.:** PMW-5

Project Name: Former Key West Gas & Electric **Date Drilled:** 1/27/2014

Facility ID#: **Drill Rig:** Geoprobe

Logged By: CCF **Sampling Method:**

SUBSURFACE PROFILE			SAMPLE			Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	FID (ppm)	
		Ground Surface				
0		***SP- SAND*** Dark Brown, fine		-	0.0	
				-	0.0	
2		***SP- SAND*** Gray, fine		-	0.0	
		LS- LIMESTONE (saturated)		-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12						



Completion Notes: EOB @ 12' bgs.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Sheet: 1 of 1

Well Log: .

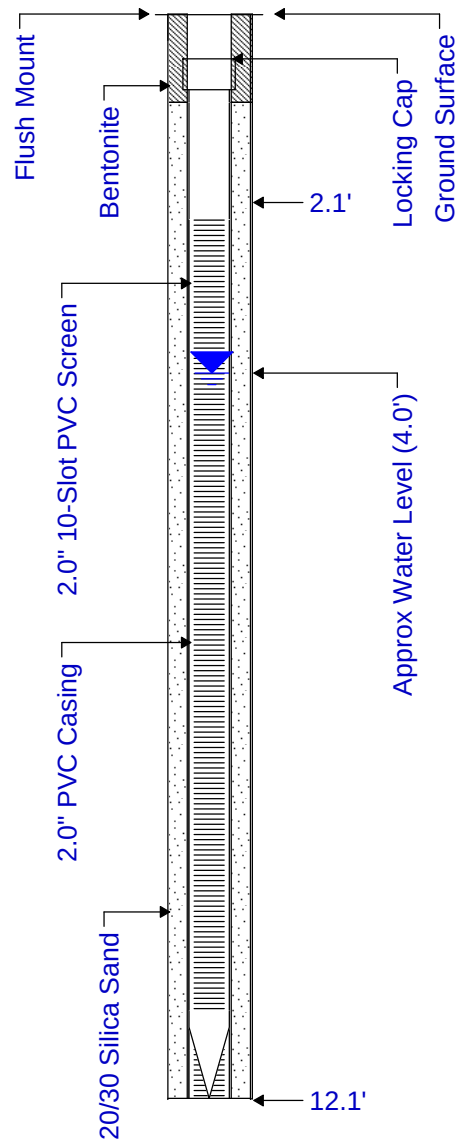
Project No.: 06-3668-4 **Well No.:** PMW-6

Project Name: Former Key West Gas & Electric **Date Drilled:** 1/27/2014

Facility ID#: **Drill Rig:** Geoprobe

Logged By: CCF **Sampling Method:**

SUBSURFACE PROFILE			SAMPLE			Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	FID (ppm)	
		Ground Surface				
0		***SP- SAND*** Dark Brown, fine		-	0.0	
				-	0.0	
2		***SP- SAND*** Gray, fine		-	0.0	
		LS- LIMESTONE (saturated)		-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12						



Completion Notes: EOB @ 12' bgs.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Well Log: .

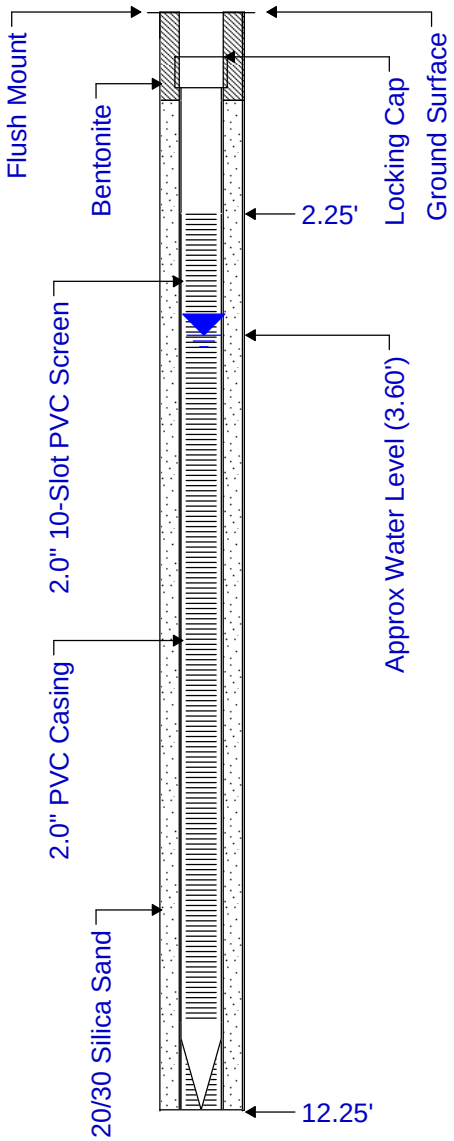
Project No.: 06-3668-4 **Well No.:** PMW-7

Project Name: Former Key West Gas & Electric **Date Drilled:** 1/27/2014

Facility ID#: **Drill Rig:** Geoprobe

Logged By: CCF **Sampling Method:**

SUBSURFACE PROFILE			SAMPLE			Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	FID (ppm)	
		Ground Surface				
0		***SP- SAND*** Dark Brown, fine		-	0.0	
				-	0.0	
2		***SP- SAND*** Gray, fine		-	0.0	
		LS- LIMESTONE (saturated)		-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12						



Completion Notes: EOB @ 12' bgs.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Appendix B

PM ENVIRONMENTAL Environmental & Engineering Services

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Keys West Gas + Electric Co		SITE LOCATION: 101-111 Geraldine Street	
WELL NO: PMW-1	SAMPLE ID: PMW-1		DATE: 1/28/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 1.9 feet to 11.9 feet	STATIC DEPTH TO WATER (feet): 4.7	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.9 feet – 4.7 feet) X 0.16 gallons/foot = 1.152 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 855	PURGING ENDED AT: 955	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
915	2.0	2.0	0.1	4.7	—	—	—	—	—	clear	none
920	0.25	2.25	0.05		4.11	26.15	0.781	50.0	48.6	"	
925	0.5	2.75	0.1		3.81	26.19	0.722	38.2	67.1	opaque	"
930	0.05	2.80	0.01		3.74	26.17	0.700	29.0	67.0	"	"
935	0.2	3.0	0.04		3.67	26.2	0.676	23.3	53.7	"	"
940	0.25	3.25	0.05		3.62	26.22	0.652	19.4	21.7	clear	"
945	0.25	3.5	0.05		3.57	26.23	0.631	18.0	15.5	"	
950	0.25	3.75	0.05		3.54	26.26	0.611	17.3	11.7	"	"
955	0.25	4.0	0.05		3.51	26.26	0.595	17.1	10.5	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Candace Clint Tatt/PM	SAMPLER(S) SIGNATURE(S): C Clint Tatt	SAMPLING INITIATED AT: 955	SAMPLING ENDED AT: 1005
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
PMW-1	1	AG	500mL	None	500	3.51	PAHs	APP	
	1	AG	1L	H_2SO_4	1000	3.51	TRPHs	APP	
	3	CG	40mL	HCl	120	3.51	VOCs	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Keys Electric + Gas Co	SITE LOCATION: 101-111 Geraldine St.
WELL NO: PMW-2	SAMPLE ID: PMW-2	DATE: 1/28/14

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 2.2 feet to 12.2 feet	STATIC DEPTH TO WATER (feet): 4.0	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.2 feet – 4.0 feet) X 0.16 gallons/foot = 1.312 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 1020	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1030	1.0	1.0	0.10	4.0	—	—	—	—	—	opaque	none
1035	0.8	1.8	0.16		3.73	26.55	0.493	7.5	+++	"	"
1040	0.45	2.25	0.09		3.70	26.53	0.501	4.0	96.4	"	"
1045	0.55	2.8	0.11		3.67	26.55	0.492	3.1	66.1	"	"
1050	0.6	3.4	0.12		3.66	26.56	0.485	2.7	48.2	"	old
1055	0.6	4.0	0.12		3.62	26.55	0.478	2.5	30.6	clear	hydro
1100	0.5	4.5	0.10		3.61	26.60	0.479	2.4	30.4	"	carbons
1105	0.5	5.0	0.10		3.60	26.62	0.474	2.3	26.1	"	
1110	0.75	5.75	0.15		3.59	26.67	0.475	2.2	35.4	"	
1115	0.5	6.25	0.10		3.60	26.67	0.477	2.2	23.2	"	"
1120	0.25	6.5	0.05		3.61	26.71	0.468	2.1	29.4	"	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Candace Clint Tatt/PM	SAMPLER(S) SIGNATURE(S): C. Coor	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1130
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
PMW-2	1	CG	500ml	none	500	3.61	PAHs	APP	
	1	CG	1L	H_2SO_4	1,000	3.61	TPPHs	APP	
	3	CG	40ml	HCl	120	3.61	VOCs	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Keys Electric + Gas Co	SITE LOCATION: 101-111 Geraldine St.	
WELL NO: PMW-3	SAMPLE ID: PMW-3	DATE: 1/28/14

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 2.25 feet to 12.25 feet	STATIC DEPTH TO WATER (feet): 4.0	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.25 feet – 4.0 feet) X 0.16 gallons/foot = 1.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 1135	PURGING ENDED AT: 1240	TOTAL VOLUME PURGED (gallons): 4.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1155	2.0	2.0	0.1	4.0	—	—	—	—	—	cloudy	none
1200	0.5	2.5	0.1		3.45	26.35	0.473	18.6	++++	"	"
1205	0.5	3.0	0.1		3.54	26.42	0.455	12.6	++++	"	"
1210	0.25	3.25	0.05		3.58	26.39	0.451	12.3	69.5	"	"
1215	0.25	3.5	0.05		3.60	26.39	0.446	11.2	46.7	opaque	"
1220	0.25	3.75	0.05		3.61	26.34	0.443	10.3	34.8		
1225	0.25	4.0	0.05		3.63	26.45	0.437	9.4	20.5	clear	"
1230	0.25	4.25	0.05		3.63	26.46	0.436	8.9	16.3	"	"
1235	0.25	4.5	0.05		3.64	26.40	0.434	9.2	11.5	"	"
1240	0.25	4.75	0.05		3.65	26.45	0.432	8.9	8.50	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Candace Chiritatt / PM	SAMPLER(S) SIGNATURE(S): C. Chiritatt	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1250
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
PMW-3	1	AG	500mL	None	500	3.65	PAHs	APP	
	1	AG	1L	H_2SO_4	1,000	3.65	TRPHs	APP	
	3	CG	40mL	HCl	120	3.65	VOCs	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Keys Electric + Gas Co	SITE LOCATION: 101 - 111 Gasadline Street
WELL NO: PMW-4	SAMPLE ID: PMW-4
DATE: 1/28/14	

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 2.3 feet to 12.3 feet	STATIC DEPTH TO WATER (feet): 4.15	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.3 feet – 4.15 feet) X 0.16 gallons/foot = 1.304 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1415	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1330	1.75	1.75	0.09	4.15	—	—	—	—	—	clear	none
1335	0.25	2.0	0.05		3.59	23.34	0.327	15.2	92.6	cloudy	"
1340	0.5	2.5	0.1		3.60	23.27	0.315	10.6	88.8	"	"
1345	0.25	2.75	0.05		3.63	23.35	0.309	9.6	69.7	opaque	"
1350	0.25	3.0	0.05		3.65	23.25	0.303	9.0	59.3	"	"
1355	0.5	3.5	0.1		3.65	23.33	0.299	8.6	50.1	"	"
1400	0.25	3.75	0.05		3.66	23.32	0.296	8.5	49.5	"	"
1405	0.25	4.0	0.05		3.66	23.39	0.294	8.4	45.7	"	"
1410	0.25	4.25	0.05		3.67	23.41	0.292	8.4	40.8	"	"
1415	0.25	4.5	0.05		3.67	23.37	0.290	8.6	32.8	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: CC Carlot / PM	SAMPLER(S) SIGNATURE(S): Candace Chierfatt	SAMPLING INITIATED AT: 1415	SAMPLING ENDED AT: 1425
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
PMW-	1	AG	500mL	None	500	3.67	PAHs	APP	
4	1	AG	1L	H_2SO_4	1,000		TRPHs	APP	
	3	CG	40mL	HCl	120		VOCs	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Keys Electric + Gas Co		SITE LOCATION: 101-111 Gearbline Street	
WELL NO: PMW-5	SAMPLE ID: PMW-5		DATE: 1/29/14

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 2.3 feet to 12.3 feet	STATIC DEPTH TO WATER (feet): 4.3	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.3 feet – 4.3 feet) X 0.16 gallons/foot = 1.28 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 805	PURGING ENDED AT: 915	TOTAL VOLUME PURGED (gallons): 4.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
825	1.5	1.5	0.075	4.3	—	—	—	—	—	clear	otl
830	0.3	1.80	0.06		3.88	24.75	0.532	13.5	92.5	"	petro
835	0.7	2.5	0.14		3.75	24.78	0.525	10.9	74.9	"	odor
840	0.25	2.75	0.05		3.69	24.76	0.525	9.3	48.9	"	"
845	0.25	3.0	0.05		3.65	24.88	0.530	8.3	40.4	"	"
850	0.5	3.5	0.1		3.61	24.93	0.531	7.9	33.5	"	"
855	0.25	3.75	0.05		3.58	24.88	0.534	7.6	24.0	"	"
900	0.25	4.0	0.05		3.54	24.85	0.532	7.5	25.9	"	"
905	0.25	4.25	0.05		3.53	24.85	0.536	7.5	22.0	"	"
910	0.25	4.5	0.05		3.52	24.88	0.537	7.6	19.8	"	"
915	0.25	4.75	0.05		3.51	24.94	0.543	7.6	16.0	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Candace Chin Fatt/PM	SAMPLER(S) SIGNATURE(S): C. Chin Fatt	SAMPLING INITIATED AT: 915	SAMPLING ENDED AT: 925
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
PMW-5	1	AG	500mL	None	500	3.51	PAHs	APP	
	1	AG	1L	H_2SO_4	1,000	3.51	TRPHs	APP	
	3	CG	40mL	HCl	120	3.51	VOCs	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Keys Electric + Gas Co		SITE LOCATION: 101-111 Geraldine St.	
WELL NO: PMW-6	SAMPLE ID: PMW-6		DATE: 1/29/14

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 2.1 feet to 12.1 feet	STATIC DEPTH TO WATER (feet): 4.0	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.1 feet – 4.0 feet) X 0.16 gallons/foot = 1.296 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 930	PURGING ENDED AT: 1040	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
950	2.0	2.0	0.1	4.0	—	—	—	—	—	cloudy	slight
955	0.25	2.25	0.05		3.83	26.27	0.530	11.5	+++	"	hydro
000	0.25	2.5	0.05		3.69	26.32	0.521	11.0	+++	"	carbon
1005	0.5	3.0	0.1		3.58	26.13	0.509	12.5	+++	"	odor
1010	0.5	3.5	0.1		3.54	26.30	0.507	12.8	+++	"	"
1015	0.5	4.0	0.1		3.53	26.32	0.505	12.3	+++	"	"
1020	0.5	4.5	0.1		3.51	26.31	0.505	11.9	99.6	"	"
1025	0.5	5.0	0.1		3.49	26.34	0.505	11.7	81.2	"	"
1030	0.5	5.5	0.1		3.49	26.41	0.507	11.4	57.2	"	"
1035	0.5	6.0	0.1		3.48	26.37	0.508	11.3	51.0	"	"
1040	0.5	6.5	0.1		3.46	26.33	0.505	11.3	33.5	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Candace Chin Fath/PH	SAMPLER(S) SIGNATURE(S): C. Chin Fath	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT: 1050
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
PMW-6	1	AG	500mL	None	500	3.46	PAHs	APP	
	1	AG	1L	H_2SO_4	1,000		TRPHs	APP	
	3	CG	40mL	HCl	120		VOCs	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Keys Electric + Gas Co	SITE LOCATION: 101 - 111 Geraldine St.
WELL NO: PMW-7	SAMPLE ID: PMW-7	DATE: 1/29/14

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.6	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.25 feet – 3.60 feet) X 0.16 gallons/foot = 1.384 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1157	TOTAL VOLUME PURGED (gallons): 6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1117	2.0	2.0	0.1	3.6	—	—	—	—	—	opaque	None
1122	0.5	2.5			3.77	25.53	0.505	14.6	67.4	"	"
1127	0.5	3.0			3.64	25.55	0.503	14.7	40.2	"	"
1132	0.5	3.5			3.59	25.47	0.502	13.8	33.1	"	"
1137	0.5	4.0			3.58	25.51	0.500	13.8	21.0	clear	"
1142	0.5	4.5			3.56	25.52	0.501	13.1	20.1	"	"
1147	0.5	5.0			3.59	25.57	0.502	12.5	17.1	"	"
1152	0.5	5.5			3.56	25.62	0.505	12.0	14.2	"	"
1157	0.5	6.0			3.54	25.57	0.507	11.6	13.9	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Candace Chin Foth / PM	SAMPLER(S) SIGNATURE(S): C Chin Foth	SAMPLING INITIATED AT: 1157	SAMPLING ENDED AT: 1207
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
PMW-7	1	AG	500mL	None	500	3.54	PAHs	APP	
	1	AG	1L	H_2SO_4	1,000		TRPHs	APP	
	3	CG	40mL	HCl	120	1	VOCs	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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Appendix C

PM ENVIRONMENTAL Environmental & Engineering Services

Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

February 10, 2014

Candace Chin Fatt
PM Environmental
2131 Hollywood Blvd, Ste 503
Hollywood, FL 33020

RE: Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Dear Candace Fatt:
Enclosed are the analytical results for sample(s) received by the laboratory on January 30, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christina Raschke
christina.raschke@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

CERTIFICATIONS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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Pompano Beach, FL 33064
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SAMPLE SUMMARY

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35124336001	**PMW-1**	Water	01/28/14 09:55	01/30/14 09:20
35124336002	**PMW-2**	Water	01/28/14 11:20	01/30/14 09:20
35124336003	**PMW-3**	Water	01/28/14 12:40	01/30/14 09:20
35124336004	**PMW-4**	Water	01/28/14 14:15	01/30/14 09:20
35124336005	**PMW-5**	Water	01/29/14 09:15	01/30/14 09:20
35124336006	**PMW-6**	Water	01/29/14 10:40	01/30/14 09:20
35124336007	**PMW-7**	Water	01/29/14 11:57	01/30/14 09:20
35124336008	**Trip Blank**	Water	01/29/14 08:00	01/30/14 09:20

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SAMPLE ANALYTE COUNT

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35124336001	**PMW-1**	FL-PRO	IRL	3	PASI-O
		EPA 8270 by SIM	EAO	20	PASI-O
		EPA 8260	JBH	79	PASI-O
35124336002	**PMW-2**	FL-PRO	IRL	3	PASI-O
		EPA 8270 by SIM	EAO, TWB	20	PASI-O
		EPA 8260	JBH, SK	79	PASI-O
35124336003	**PMW-3**	FL-PRO	IRL	3	PASI-O
		EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK	79	PASI-O
35124336004	**PMW-4**	FL-PRO	IRL	3	PASI-O
		EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK	79	PASI-O
35124336005	**PMW-5**	FL-PRO	IRL	3	PASI-O
		EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK	79	PASI-O
35124336006	**PMW-6**	FL-PRO	IRL	3	PASI-O
		EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK	79	PASI-O
35124336007	**PMW-7**	FL-PRO	IRL	3	PASI-O
		EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK	79	PASI-O
35124336008	**Trip Blank**	EPA 8260	SK	79	PASI-O

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3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-1 **Lab ID: 35124336001** Collected: 01/28/14 09:55 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**6.3**	mg/L	0.10	0.061	1	01/31/14 02:00	01/31/14 16:32		
Surrogates									
o-Terphenyl (S)	138	%	82-142		1	01/31/14 02:00	01/31/14 16:32	84-15-1	
N-Pentatriacontane (S)	133	%	42-159		1	01/31/14 02:00	01/31/14 16:32	630-07-09	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**14.4**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	83-32-9	
Acenaphthylene	**27.5**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	208-96-8	
Anthracene	**4.6**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	120-12-7	
Benzo(a)anthracene	**0.16**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	56-55-3	
Benzo(a)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	50-32-8	
Benzo(b)fluoranthene	**0.027 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	205-99-2	
Benzo(g,h,i)perylene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	191-24-2	
Benzo(k)fluoranthene	**0.028 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	207-08-9	
Chrysene	**0.18**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	218-01-9	
Dibenz(a,h)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	53-70-3	
Fluoranthene	**2.4**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	206-44-0	
Fluorene	**21.0**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	193-39-5	
1-Methylnaphthalene	**259**	ug/L	10.0	5.0	5	01/31/14 03:30	02/02/14 21:51	90-12-0	
2-Methylnaphthalene	**335**	ug/L	10.0	5.0	5	01/31/14 03:30	02/02/14 21:51	91-57-6	
Naphthalene	**1480**	ug/L	100	50.0	50	01/31/14 03:30	02/06/14 09:54	91-20-3	
Phenanthrene	**41.7**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	85-01-8	
Pyrene	**4.9**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 15:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	18-110		1	01/31/14 03:30	01/31/14 15:44	321-60-8	
Terphenyl-d14 (S)	92	%	18-123		1	01/31/14 03:30	01/31/14 15:44	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	71-55-6	
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/02/14 23:13	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	76-13-1	
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	75-34-3	
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	75-35-4	
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	563-58-6	
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	87-61-6	
1,2,3-Trichloropropane	**2.4**	ug/L	0.50	0.36	1		02/02/14 23:13	96-18-4	
1,2,3-Trimethylbenzene	**61.6**	ug/L	1.0	1.0	1		02/02/14 23:13	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	120-82-1	
1,2,4-Trimethylbenzene	**86.3**	ug/L	1.0	0.50	1		02/02/14 23:13	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/02/14 23:13	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	107-06-2	

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Pompano Beach, FL 33064
954-582-4300

ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-1 **Lab ID: 35124336001** Collected: 01/28/14 09:55 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	78-87-5	
1,3,5-Trimethylbenzene	**85.2**	ug/L	1.0	0.50	1		02/02/14 23:13	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	594-20-7	
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:13	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/02/14 23:13	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:13	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:13	108-10-1	
Acetone	**10.0U**	ug/L	20.0	10.0	1		02/02/14 23:13	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:13	75-05-8	
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/02/14 23:13	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:13	107-13-1	
Benzene	**0.21 I**	ug/L	1.0	0.10	1		02/02/14 23:13	71-43-2	
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	74-97-5	
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		02/02/14 23:13	75-27-4	
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:13	75-15-0	
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	56-23-5	
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	67-66-3	
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/02/14 23:13	74-87-3	J(L2)
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/02/14 23:13	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	74-95-3	
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	75-71-8	
Ethylbenzene	**3.3**	ug/L	1.0	0.50	1		02/02/14 23:13	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/02/14 23:13	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	74-88-4	
Isopropylbenzene (Cumene)	**48.4**	ug/L	1.0	0.50	1		02/02/14 23:13	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	1634-04-4	
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/02/14 23:13	75-09-2	
Naphthalene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	91-20-3	
Styrene	**1.4**	ug/L	1.0	0.50	1		02/02/14 23:13	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	127-18-4	
Toluene	**1.1**	ug/L	1.0	0.50	1		02/02/14 23:13	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	79-01-6	
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	75-69-4	
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/02/14 23:13	108-05-4	L3
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	75-01-4	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-1 **Lab ID: 35124336001** Collected: 01/28/14 09:55 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**71.9**	ug/L	1.0	0.50	1		02/02/14 23:13	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	156-59-2	
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/02/14 23:13	10061-01-5	
m&p-Xylene	**13.1**	ug/L	1.0	0.50	1		02/02/14 23:13	179601-23-1	
n-Butylbenzene	**3.0**	ug/L	1.0	0.50	1		02/02/14 23:13	104-51-8	
n-Propylbenzene	**15.7**	ug/L	1.0	0.50	1		02/02/14 23:13	103-65-1	
o-Xylene	**58.8**	ug/L	1.0	0.50	1		02/02/14 23:13	95-47-6	
p-Isopropyltoluene	**5.6**	ug/L	1.0	0.50	1		02/02/14 23:13	99-87-6	
sec-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	135-98-8	
tert-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:13	156-60-5	
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/02/14 23:13	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:13	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-114		1		02/02/14 23:13	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	86-125		1		02/02/14 23:13	17060-07-0	
Toluene-d8 (S)	103	%	87-113		1		02/02/14 23:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-2 **Lab ID: 35124336002** Collected: 01/28/14 11:20 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**2.3**	mg/L	0.10	0.061	1	01/31/14 02:00	01/31/14 17:03		
Surrogates									
o-Terphenyl (S)	128	%	82-142		1	01/31/14 02:00	01/31/14 17:03	84-15-1	
N-Pentatriacontane (S)	107	%	42-159		1	01/31/14 02:00	01/31/14 17:03	630-07-09	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**37.1**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	83-32-9	
Acenaphthylene	**11.2**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	208-96-8	
Anthracene	**5.5**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	120-12-7	
Benzo(a)anthracene	**0.54**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	56-55-3	
Benzo(a)pyrene	**0.14**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	50-32-8	
Benzo(b)fluoranthene	**0.12**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	205-99-2	
Benzo(g,h,i)perylene	**0.043 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	191-24-2	
Benzo(k)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	207-08-9	
Chrysene	**0.49**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	218-01-9	
Dibenz(a,h)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	53-70-3	
Fluoranthene	**5.8**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	206-44-0	
Fluorene	**9.7**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.026 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	193-39-5	
1-Methylnaphthalene	**187**	ug/L	10.0	5.0	5	01/31/14 03:30	02/02/14 21:07	90-12-0	
2-Methylnaphthalene	**62.4**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 17:38	91-57-6	
Naphthalene	**219**	ug/L	10.0	5.0	5	01/31/14 03:30	02/02/14 21:07	91-20-3	
Phenanthrene	**55.0**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	85-01-8	
Pyrene	**12.1**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 17:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	18-110		1	01/31/14 03:30	01/31/14 17:38	321-60-8	
Terphenyl-d14 (S)	96	%	18-123		1	01/31/14 03:30	01/31/14 17:38	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	71-55-6	
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/02/14 23:39	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	76-13-1	
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	75-34-3	
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	75-35-4	
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	563-58-6	
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	87-61-6	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		02/02/14 23:39	96-18-4	
1,2,3-Trimethylbenzene	**18.7**	ug/L	1.0	1.0	1		02/02/14 23:39	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	120-82-1	
1,2,4-Trimethylbenzene	**29.0**	ug/L	1.0	0.50	1		02/02/14 23:39	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/02/14 23:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	107-06-2	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-2 **Lab ID: 35124336002** Collected: 01/28/14 11:20 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	78-87-5	
1,3,5-Trimethylbenzene	**7.1**	ug/L	1.0	0.50	1		02/02/14 23:39	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	594-20-7	
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:39	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/02/14 23:39	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:39	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:39	108-10-1	
Acetone	**10.0U**	ug/L	20.0	10.0	1		02/02/14 23:39	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:39	75-05-8	
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/02/14 23:39	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:39	107-13-1	
Benzene	**0.11 I**	ug/L	1.0	0.10	1		02/02/14 23:39	71-43-2	
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	74-97-5	
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		02/02/14 23:39	75-27-4	
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:39	75-15-0	
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	56-23-5	
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	67-66-3	
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/02/14 23:39	74-87-3	J(L2)
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/02/14 23:39	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	74-95-3	
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	75-71-8	
Ethylbenzene	**38.4**	ug/L	1.0	0.50	1		02/02/14 23:39	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/02/14 23:39	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	74-88-4	
Isopropylbenzene (Cumene)	**12.0**	ug/L	1.0	0.50	1		02/02/14 23:39	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	1634-04-4	
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/02/14 23:39	75-09-2	
Naphthalene	**221**	ug/L	25.0	12.5	25		02/03/14 19:46	91-20-3	
Styrene	**0.50 I**	ug/L	1.0	0.50	1		02/02/14 23:39	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	127-18-4	
Toluene	**1.0**	ug/L	1.0	0.50	1		02/02/14 23:39	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	79-01-6	
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	75-69-4	
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/02/14 23:39	108-05-4	L3
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	75-01-4	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-2 **Lab ID: 35124336002** Collected: 01/28/14 11:20 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**26.9**	ug/L	1.0	0.50	1		02/02/14 23:39	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	156-59-2	
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/02/14 23:39	10061-01-5	
m&p-Xylene	**18.4**	ug/L	1.0	0.50	1		02/02/14 23:39	179601-23-1	
n-Butylbenzene	**0.88 I**	ug/L	1.0	0.50	1		02/02/14 23:39	104-51-8	
n-Propylbenzene	**4.5**	ug/L	1.0	0.50	1		02/02/14 23:39	103-65-1	
o-Xylene	**8.5**	ug/L	1.0	0.50	1		02/02/14 23:39	95-47-6	
p-Isopropyltoluene	**3.8**	ug/L	1.0	0.50	1		02/02/14 23:39	99-87-6	
sec-Butylbenzene	**1.4**	ug/L	1.0	0.50	1		02/02/14 23:39	135-98-8	
tert-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/02/14 23:39	156-60-5	
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/02/14 23:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/02/14 23:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-114		1		02/02/14 23:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	86-125		1		02/02/14 23:39	17060-07-0	
Toluene-d8 (S)	103	%	87-113		1		02/02/14 23:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-3 **Lab ID: 35124336003** Collected: 01/28/14 12:40 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.93**	mg/L	0.10	0.061	1	01/31/14 02:00	01/31/14 17:34		
Surrogates									
o-Terphenyl (S)	139	%	82-142		1	01/31/14 02:00	01/31/14 17:34	84-15-1	
N-Pentatriacontane (S)	131	%	42-159		1	01/31/14 02:00	01/31/14 17:34	630-07-09	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**2.2**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	83-32-9	
Acenaphthylene	**0.60**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	208-96-8	
Anthracene	**0.35**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	120-12-7	
Benzo(a)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	56-55-3	
Benzo(a)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	50-32-8	
Benzo(b)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	205-99-2	
Benzo(g,h,i)perylene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	191-24-2	
Benzo(k)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	207-08-9	
Chrysene	**0.035 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	218-01-9	
Dibenz(a,h)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	53-70-3	
Fluoranthene	**0.51**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	206-44-0	
Fluorene	**4.0**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	193-39-5	
1-Methylnaphthalene	**55.1**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 18:01	90-12-0	
2-Methylnaphthalene	**55.2**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 18:01	91-57-6	
Naphthalene	**2.6**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 18:01	91-20-3	
Phenanthrene	**4.4**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	85-01-8	
Pyrene	**0.88**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%	18-110		1	01/31/14 03:30	01/31/14 18:01	321-60-8	
Terphenyl-d14 (S)	99	%	18-123		1	01/31/14 03:30	01/31/14 18:01	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	71-55-6	
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/04/14 15:39	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	76-13-1	
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	75-34-3	
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	75-35-4	
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	563-58-6	
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	87-61-6	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		02/04/14 15:39	96-18-4	
1,2,3-Trimethylbenzene	**1.1**	ug/L	1.0	1.0	1		02/04/14 15:39	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	120-82-1	
1,2,4-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/04/14 15:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	107-06-2	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-3 **Lab ID: 35124336003** Collected: 01/28/14 12:40 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	78-87-5	
1,3,5-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	594-20-7	
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 15:39	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/04/14 15:39	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/04/14 15:39	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 15:39	108-10-1	
Acetone	**13.0 I**	ug/L	20.0	10.0	1		02/04/14 15:39	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 15:39	75-05-8	L3
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/04/14 15:39	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 15:39	107-13-1	
Benzene	**0.10U**	ug/L	1.0	0.10	1		02/04/14 15:39	71-43-2	
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	74-97-5	
Bromodichloromethane	**0.69**	ug/L	0.60	0.27	1		02/04/14 15:39	75-27-4	
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/04/14 15:39	75-15-0	
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	56-23-5	
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	75-00-3	
Chloroform	**1.0**	ug/L	1.0	0.50	1		02/04/14 15:39	67-66-3	
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/04/14 15:39	74-87-3	L3
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/04/14 15:39	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	74-95-3	
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	75-71-8	
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/04/14 15:39	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	74-88-4	
Isopropylbenzene (Cumene)	**4.4**	ug/L	1.0	0.50	1		02/04/14 15:39	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	1634-04-4	
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/04/14 15:39	75-09-2	
Naphthalene	**7.4**	ug/L	1.0	0.50	1		02/04/14 15:39	91-20-3	
Styrene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	79-01-6	
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	75-69-4	
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/04/14 15:39	108-05-4	
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	75-01-4	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-3 **Lab ID: 35124336003** Collected: 01/28/14 12:40 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	156-59-2	
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 15:39	10061-01-5	
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	179601-23-1	
n-Butylbenzene	**1.4**	ug/L	1.0	0.50	1		02/04/14 15:39	104-51-8	
n-Propylbenzene	**6.4**	ug/L	1.0	0.50	1		02/04/14 15:39	103-65-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	95-47-6	
p-Isopropyltoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	99-87-6	
sec-Butylbenzene	**1.8**	ug/L	1.0	0.50	1		02/04/14 15:39	135-98-8	
tert-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 15:39	156-60-5	
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 15:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/04/14 15:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-114		1		02/04/14 15:39	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	86-125		1		02/04/14 15:39	17060-07-0	
Toluene-d8 (S)	133	%	87-113		1		02/04/14 15:39	2037-26-5	J(S0)

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-4 **Lab ID: 35124336004** Collected: 01/28/14 14:15 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.23**	mg/L	0.10	0.061	1	01/31/14 02:00	01/31/14 12:21		
Surrogates									
o-Terphenyl (S)	131	%	82-142		1	01/31/14 02:00	01/31/14 12:21	84-15-1	
N-Pentatriacontane (S)	115	%	42-159		1	01/31/14 02:00	01/31/14 12:21	630-07-09	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.48**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	83-32-9	
Acenaphthylene	**0.18**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	208-96-8	
Anthracene	**0.12**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	120-12-7	
Benzo(a)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	56-55-3	
Benzo(a)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	50-32-8	
Benzo(b)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	205-99-2	
Benzo(g,h,i)perylene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	191-24-2	
Benzo(k)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	207-08-9	
Chrysene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	218-01-9	
Dibenz(a,h)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	53-70-3	
Fluoranthene	**0.047 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	206-44-0	
Fluorene	**1.1**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	193-39-5	
1-Methylnaphthalene	**1.0U**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 18:23	90-12-0	
2-Methylnaphthalene	**1.0U**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 18:23	91-57-6	
Naphthalene	**1.0U**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 18:23	91-20-3	
Phenanthrene	**0.37**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	85-01-8	
Pyrene	**0.072 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 18:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	80	%	18-110		1	01/31/14 03:30	01/31/14 18:23	321-60-8	
Terphenyl-d14 (S)	98	%	18-123		1	01/31/14 03:30	01/31/14 18:23	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	71-55-6	
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/04/14 16:04	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	76-13-1	
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	75-34-3	
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	75-35-4	
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	563-58-6	
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	87-61-6	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		02/04/14 16:04	96-18-4	
1,2,3-Trimethylbenzene	**1.0U**	ug/L	1.0	1.0	1		02/04/14 16:04	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	120-82-1	
1,2,4-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/04/14 16:04	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	107-06-2	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-4 **Lab ID: 35124336004** Collected: 01/28/14 14:15 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	78-87-5	
1,3,5-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	594-20-7	
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:04	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/04/14 16:04	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:04	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:04	108-10-1	
Acetone	**10.0U**	ug/L	20.0	10.0	1		02/04/14 16:04	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:04	75-05-8	L3
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/04/14 16:04	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:04	107-13-1	
Benzene	**0.10U**	ug/L	1.0	0.10	1		02/04/14 16:04	71-43-2	
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	74-97-5	
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		02/04/14 16:04	75-27-4	
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:04	75-15-0	
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	56-23-5	
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	67-66-3	
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/04/14 16:04	74-87-3	L3
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/04/14 16:04	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	74-95-3	
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	75-71-8	
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/04/14 16:04	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	74-88-4	
Isopropylbenzene (Cumene)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	1634-04-4	
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/04/14 16:04	75-09-2	
Naphthalene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	91-20-3	
Styrene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	79-01-6	
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	75-69-4	
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/04/14 16:04	108-05-4	
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	75-01-4	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-4 **Lab ID: 35124336004** Collected: 01/28/14 14:15 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	156-59-2	
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 16:04	10061-01-5	
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	179601-23-1	
n-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	104-51-8	
n-Propylbenzene	**1.5**	ug/L	1.0	0.50	1		02/04/14 16:04	103-65-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	95-47-6	
p-Isopropyltoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	99-87-6	
sec-Butylbenzene	**0.84 I**	ug/L	1.0	0.50	1		02/04/14 16:04	135-98-8	
tert-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:04	156-60-5	
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 16:04	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:04	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-114		1		02/04/14 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	86-125		1		02/04/14 16:04	17060-07-0	
Toluene-d8 (S)	133	%	87-113		1		02/04/14 16:04	2037-26-5	J(S0)

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-5 **Lab ID: 35124336005** Collected: 01/29/14 09:15 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.81**	mg/L	0.10	0.061	1	01/31/14 02:00	01/31/14 18:06		
Surrogates									
o-Terphenyl (S)	128	%	82-142		1	01/31/14 02:00	01/31/14 18:06	84-15-1	
N-Pentatriacontane (S)	102	%	42-159		1	01/31/14 02:00	01/31/14 18:06	630-07-09	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**1.0**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	83-32-9	
Acenaphthylene	**0.36**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	208-96-8	
Anthracene	**0.21**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	120-12-7	
Benzo(a)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	56-55-3	
Benzo(a)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	50-32-8	
Benzo(b)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	205-99-2	
Benzo(g,h,i)perylene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	191-24-2	
Benzo(k)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	207-08-9	
Chrysene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	218-01-9	
Dibenz(a,h)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	53-70-3	
Fluoranthene	**0.049 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	206-44-0	
Fluorene	**2.4**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	193-39-5	
1-Methylnaphthalene	**35.5**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 19:26	90-12-0	
2-Methylnaphthalene	**46.6**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 19:26	91-57-6	
Naphthalene	**1.0U**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 19:26	91-20-3	
Phenanthrene	**2.6**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	85-01-8	
Pyrene	**0.12**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%	18-110		1	01/31/14 03:30	01/31/14 19:26	321-60-8	
Terphenyl-d14 (S)	91	%	18-123		1	01/31/14 03:30	01/31/14 19:26	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	71-55-6	
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/04/14 16:29	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	76-13-1	
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	75-34-3	
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	75-35-4	
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	563-58-6	
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	87-61-6	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		02/04/14 16:29	96-18-4	
1,2,3-Trimethylbenzene	**1.0U**	ug/L	1.0	1.0	1		02/04/14 16:29	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	120-82-1	
1,2,4-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/04/14 16:29	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	107-06-2	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-5 **Lab ID: 35124336005** Collected: 01/29/14 09:15 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	78-87-5	
1,3,5-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	594-20-7	
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:29	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/04/14 16:29	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:29	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:29	108-10-1	
Acetone	**10.9 I**	ug/L	20.0	10.0	1		02/04/14 16:29	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:29	75-05-8	L3
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/04/14 16:29	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:29	107-13-1	
Benzene	**0.10U**	ug/L	1.0	0.10	1		02/04/14 16:29	71-43-2	
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	74-97-5	
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		02/04/14 16:29	75-27-4	
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:29	75-15-0	
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	56-23-5	
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	75-00-3	
Chloroform	**1.3**	ug/L	1.0	0.50	1		02/04/14 16:29	67-66-3	
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/04/14 16:29	74-87-3	L3
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/04/14 16:29	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	74-95-3	
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	75-71-8	
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/04/14 16:29	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	74-88-4	
Isopropylbenzene (Cumene)	**3.6**	ug/L	1.0	0.50	1		02/04/14 16:29	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	1634-04-4	
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/04/14 16:29	75-09-2	
Naphthalene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	91-20-3	
Styrene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	79-01-6	
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	75-69-4	
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/04/14 16:29	108-05-4	
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	75-01-4	

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-5 **Lab ID: 35124336005** Collected: 01/29/14 09:15 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	156-59-2	
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 16:29	10061-01-5	
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	179601-23-1	
n-Butylbenzene	**0.85 I**	ug/L	1.0	0.50	1		02/04/14 16:29	104-51-8	
n-Propylbenzene	**4.9**	ug/L	1.0	0.50	1		02/04/14 16:29	103-65-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	95-47-6	
p-Isopropyltoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	99-87-6	
sec-Butylbenzene	**2.0**	ug/L	1.0	0.50	1		02/04/14 16:29	135-98-8	
tert-Butylbenzene	**0.51 I**	ug/L	1.0	0.50	1		02/04/14 16:29	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 16:29	156-60-5	
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 16:29	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/04/14 16:29	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-114		1		02/04/14 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	86-125		1		02/04/14 16:29	17060-07-0	
Toluene-d8 (S)	134	%	87-113		1		02/04/14 16:29	2037-26-5	J(S0)

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-6 **Lab ID: 35124336006** Collected: 01/29/14 10:40 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**1.7**	mg/L	0.10	0.061	1	01/31/14 02:00	01/31/14 18:06		
Surrogates									
o-Terphenyl (S)	142	%	82-142		1	01/31/14 02:00	01/31/14 18:06	84-15-1	
N-Pentatriacontane (S)	115	%	42-159		1	01/31/14 02:00	01/31/14 18:06	630-07-09	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**2.1**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	83-32-9	
Acenaphthylene	**0.67**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	208-96-8	
Anthracene	**0.28**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	120-12-7	
Benzo(a)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	56-55-3	
Benzo(a)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	50-32-8	
Benzo(b)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	205-99-2	
Benzo(g,h,i)perylene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	191-24-2	
Benzo(k)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	207-08-9	
Chrysene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	218-01-9	
Dibenz(a,h)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	53-70-3	
Fluoranthene	**0.077 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	206-44-0	
Fluorene	**3.9**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	193-39-5	
1-Methylnaphthalene	**61.0**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 19:49	90-12-0	
2-Methylnaphthalene	**88.5**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 19:49	91-57-6	
Naphthalene	**2.6**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 19:49	91-20-3	
Phenanthrene	**4.2**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	85-01-8	
Pyrene	**0.10**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 19:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%	18-110		1	01/31/14 03:30	01/31/14 19:49	321-60-8	
Terphenyl-d14 (S)	99	%	18-123		1	01/31/14 03:30	01/31/14 19:49	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	71-55-6	L3
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/05/14 05:42	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	76-13-1	L3
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	75-34-3	L3
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	75-35-4	L3
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	563-58-6	L3
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	87-61-6	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		02/05/14 05:42	96-18-4	
1,2,3-Trimethylbenzene	**1.2**	ug/L	1.0	1.0	1		02/05/14 05:42	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	120-82-1	
1,2,4-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/05/14 05:42	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	107-06-2	L3

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-6 **Lab ID: 35124336006** Collected: 01/29/14 10:40 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	78-87-5	L3
1,3,5-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	594-20-7	L3
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/05/14 05:42	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/05/14 05:42	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/05/14 05:42	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/05/14 05:42	108-10-1	
Acetone	**10.0U**	ug/L	20.0	10.0	1		02/05/14 05:42	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/05/14 05:42	75-05-8	L3
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/05/14 05:42	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/05/14 05:42	107-13-1	L3
Benzene	**0.10U**	ug/L	1.0	0.10	1		02/05/14 05:42	71-43-2	L3
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	74-97-5	L3
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		02/05/14 05:42	75-27-4	L3
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/05/14 05:42	75-15-0	L3
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	56-23-5	L3
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	67-66-3	L3
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/05/14 05:42	74-87-3	L3
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/05/14 05:42	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	74-95-3	L3
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	75-71-8	L3
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/05/14 05:42	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	74-88-4	
Isopropylbenzene (Cumene)	**3.9**	ug/L	1.0	0.50	1		02/05/14 05:42	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	1634-04-4	L3
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/05/14 05:42	75-09-2	L3
Naphthalene	**7.9**	ug/L	1.0	0.50	1		02/05/14 05:42	91-20-3	
Styrene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	79-01-6	L3
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	75-69-4	L3
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/05/14 05:42	108-05-4	L3
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	75-01-4	L3

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-6 **Lab ID: 35124336006** Collected: 01/29/14 10:40 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	156-59-2	L3
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/05/14 05:42	10061-01-5	L3
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	179601-23-1	
n-Butylbenzene	**1.7**	ug/L	1.0	0.50	1		02/05/14 05:42	104-51-8	
n-Propylbenzene	**6.4**	ug/L	1.0	0.50	1		02/05/14 05:42	103-65-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	95-47-6	
p-Isopropyltoluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	99-87-6	
sec-Butylbenzene	**2.4**	ug/L	1.0	0.50	1		02/05/14 05:42	135-98-8	
tert-Butylbenzene	**0.54 I**	ug/L	1.0	0.50	1		02/05/14 05:42	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 05:42	156-60-5	L3
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/05/14 05:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/05/14 05:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-114		1		02/05/14 05:42	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	86-125		1		02/05/14 05:42	17060-07-0	
Toluene-d8 (S)	138	%	87-113		1		02/05/14 05:42	2037-26-5	J(S0)

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-7 **Lab ID: 35124336007** Collected: 01/29/14 11:57 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.34**	mg/L	0.10	0.061	1	01/31/14 02:00	01/31/14 18:37		
Surrogates									
o-Terphenyl (S)	137	%	82-142		1	01/31/14 02:00	01/31/14 18:37	84-15-1	
N-Pentatriacontane (S)	128	%	42-159		1	01/31/14 02:00	01/31/14 18:37	630-07-09	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.42**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	83-32-9	
Acenaphthylene	**0.16**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	208-96-8	
Anthracene	**0.094 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	120-12-7	
Benzo(a)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	56-55-3	
Benzo(a)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	50-32-8	
Benzo(b)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	205-99-2	
Benzo(g,h,i)perylene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	191-24-2	
Benzo(k)fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	207-08-9	
Chrysene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	218-01-9	
Dibenz(a,h)anthracene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	53-70-3	
Fluoranthene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	206-44-0	
Fluorene	**1.0**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.025U**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	193-39-5	
1-Methylnaphthalene	**11.1**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 20:11	90-12-0	
2-Methylnaphthalene	**12.6**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 20:11	91-57-6	
Naphthalene	**1.0U**	ug/L	2.0	1.0	1	01/31/14 03:30	01/31/14 20:11	91-20-3	
Phenanthrene	**1.1**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	85-01-8	
Pyrene	**0.036 I**	ug/L	0.10	0.025	1	01/31/14 03:30	01/31/14 20:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	18-110		1	01/31/14 03:30	01/31/14 20:11	321-60-8	
Terphenyl-d14 (S)	94	%	18-123		1	01/31/14 03:30	01/31/14 20:11	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	71-55-6	L3
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/05/14 06:07	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	76-13-1	L3
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	75-34-3	L3
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	75-35-4	L3
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	563-58-6	L3
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	87-61-6	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		02/05/14 06:07	96-18-4	
1,2,3-Trimethylbenzene	**1.0U**	ug/L	1.0	1.0	1		02/05/14 06:07	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	120-82-1	
1,2,4-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/05/14 06:07	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	107-06-2	L3

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954-582-4300

ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-7 **Lab ID: 35124336007** Collected: 01/29/14 11:57 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	78-87-5	L3
1,3,5-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	594-20-7	L3
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/05/14 06:07	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/05/14 06:07	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/05/14 06:07	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/05/14 06:07	108-10-1	
Acetone	**11.6 I**	ug/L	20.0	10.0	1		02/05/14 06:07	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/05/14 06:07	75-05-8	L3
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/05/14 06:07	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/05/14 06:07	107-13-1	L3
Benzene	**0.10U**	ug/L	1.0	0.10	1		02/05/14 06:07	71-43-2	L3
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	74-97-5	L3
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		02/05/14 06:07	75-27-4	L3
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/05/14 06:07	75-15-0	L3
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	56-23-5	L3
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	67-66-3	L3
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/05/14 06:07	74-87-3	L3
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/05/14 06:07	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	74-95-3	L3
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	75-71-8	L3
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/05/14 06:07	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	74-88-4	
Isopropylbenzene (Cumene)	**1.1**	ug/L	1.0	0.50	1		02/05/14 06:07	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	1634-04-4	L3
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/05/14 06:07	75-09-2	L3
Naphthalene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	91-20-3	
Styrene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	79-01-6	L3
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	75-69-4	L3
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/05/14 06:07	108-05-4	L3
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	75-01-4	L3

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: PMW-7 **Lab ID: 35124336007** Collected: 01/29/14 11:57 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	156-59-2	L3
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/05/14 06:07	10061-01-5	L3
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	179601-23-1	
n-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	104-51-8	
n-Propylbenzene	**2.7**	ug/L	1.0	0.50	1		02/05/14 06:07	103-65-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	95-47-6	
p-Isopropyltoluene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	99-87-6	
sec-Butylbenzene	**0.78 I**	ug/L	1.0	0.50	1		02/05/14 06:07	135-98-8	
tert-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/05/14 06:07	156-60-5	L3
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/05/14 06:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/05/14 06:07	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-114		1		02/05/14 06:07	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	86-125		1		02/05/14 06:07	17060-07-0	
Toluene-d8 (S)	138	%	87-113		1		02/05/14 06:07	2037-26-5	J(S0)

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: Trip Blank **Lab ID: 35124336008** Collected: 01/29/14 08:00 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	630-20-6	
1,1,1-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	71-55-6	L3
1,1,2,2-Tetrachloroethane	**0.12U**	ug/L	0.50	0.12	1		02/04/14 22:52	79-34-5	
1,1,2-Trichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	79-00-5	
1,1,2-Trichlorotrifluoroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	76-13-1	L3
1,1-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	75-34-3	L3
1,1-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	75-35-4	L3
1,1-Dichloropropene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	563-58-6	L3
1,2,3-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	87-61-6	
1,2,3-Trichloropropane	**0.36U**	ug/L	0.50	0.36	1		02/04/14 22:52	96-18-4	
1,2,3-Trimethylbenzene	**1.0U**	ug/L	1.0	1.0	1		02/04/14 22:52	526-73-8	
1,2,4-Trichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	120-82-1	
1,2,4-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	95-63-6	
1,2-Dibromo-3-chloropropane	**1.0U**	ug/L	2.0	1.0	1		02/04/14 22:52	96-12-8	
1,2-Dibromoethane (EDB)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	106-93-4	
1,2-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	95-50-1	
1,2-Dichloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	107-06-2	L3
1,2-Dichloroethene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	540-59-0	N2
1,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	78-87-5	L3
1,3,5-Trimethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	108-67-8	
1,3-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	541-73-1	
1,3-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	142-28-9	
1,4-Dichlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	106-46-7	
2,2-Dichloropropane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	594-20-7	L3
2-Butanone (MEK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 22:52	78-93-3	
2-Chloroethylvinyl ether	**0.50U**	ug/L	10.0	0.50	1		02/04/14 22:52	110-75-8	
2-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	95-49-8	
2-Hexanone	**5.0U**	ug/L	10.0	5.0	1		02/04/14 22:52	591-78-6	
4-Chlorotoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	106-43-4	
4-Methyl-2-pentanone (MIBK)	**5.0U**	ug/L	10.0	5.0	1		02/04/14 22:52	108-10-1	
Acetone	**10.0U**	ug/L	20.0	10.0	1		02/04/14 22:52	67-64-1	
Acetonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 22:52	75-05-8	L3
Acrolein	**10.0U**	ug/L	20.0	10.0	1		02/04/14 22:52	107-02-8	
Acrylonitrile	**5.0U**	ug/L	10.0	5.0	1		02/04/14 22:52	107-13-1	L3
Benzene	**0.10U**	ug/L	1.0	0.10	1		02/04/14 22:52	71-43-2	L3
Bromobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	108-86-1	
Bromochloromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	74-97-5	L3
Bromodichloromethane	**0.27U**	ug/L	0.60	0.27	1		02/04/14 22:52	75-27-4	L3
Bromoform	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	75-25-2	
Bromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	74-83-9	
Carbon disulfide	**5.0U**	ug/L	10.0	5.0	1		02/04/14 22:52	75-15-0	L3
Carbon tetrachloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	56-23-5	L3
Chlorobenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	108-90-7	
Chloroethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	75-00-3	
Chloroform	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	67-66-3	L3
Chloromethane	**0.62U**	ug/L	1.0	0.62	1		02/04/14 22:52	74-87-3	L3

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ANALYTICAL RESULTS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Sample: Trip Blank **Lab ID: 35124336008** Collected: 01/29/14 08:00 Received: 01/30/14 09:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromochloromethane	**0.26U**	ug/L	0.50	0.26	1		02/04/14 22:52	124-48-1	
Dibromomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	74-95-3	L3
Dichlorodifluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	75-71-8	L3
Ethylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	100-41-4	
Hexachloro-1,3-butadiene	**0.40U**	ug/L	1.0	0.40	1		02/04/14 22:52	87-68-3	
Iodomethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	74-88-4	
Isopropylbenzene (Cumene)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	98-82-8	
Methyl-tert-butyl ether	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	1634-04-4	L3
Methylene Chloride	**2.5U**	ug/L	5.0	2.5	1		02/04/14 22:52	75-09-2	L3
Naphthalene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	91-20-3	
Styrene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	100-42-5	
Tetrachloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	127-18-4	
Toluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	108-88-3	
Trichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	79-01-6	L3
Trichlorofluoromethane	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	75-69-4	L3
Vinyl acetate	**1.0U**	ug/L	2.0	1.0	1		02/04/14 22:52	108-05-4	L3
Vinyl chloride	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	75-01-4	L3
Xylene (Total)	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	1330-20-7	
cis-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	156-59-2	L3
cis-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 22:52	10061-01-5	L3
m&p-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	179601-23-1	
n-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	104-51-8	
n-Propylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	103-65-1	
o-Xylene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	95-47-6	
p-Isopropyltoluene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	99-87-6	
sec-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	135-98-8	
tert-Butylbenzene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	98-06-6	
trans-1,2-Dichloroethene	**0.50U**	ug/L	1.0	0.50	1		02/04/14 22:52	156-60-5	L3
trans-1,3-Dichloropropene	**0.25U**	ug/L	0.50	0.25	1		02/04/14 22:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0U**	ug/L	10.0	5.0	1		02/04/14 22:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-114		1		02/04/14 22:52	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	86-125		1		02/04/14 22:52	17060-07-0	
Toluene-d8 (S)	133	%	87-113		1		02/04/14 22:52	2037-26-5	S3

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

QC Batch: MSV/10746 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35124336001, 35124336002

METHOD BLANK: 820935 | Matrix: Water
Associated Lab Samples: 35124336001, 35124336002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	1.0	02/02/14 17:11	
1,1,1-Trichloroethane	ug/L	0.50U	1.0	02/02/14 17:11	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.50	02/02/14 17:11	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	02/02/14 17:11	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	1.0	02/02/14 17:11	
1,1-Dichloroethane	ug/L	0.50U	1.0	02/02/14 17:11	
1,1-Dichloroethene	ug/L	0.50U	1.0	02/02/14 17:11	
1,1-Dichloropropene	ug/L	0.50U	1.0	02/02/14 17:11	
1,2,3-Trichlorobenzene	ug/L	0.50U	1.0	02/02/14 17:11	
1,2,3-Trichloropropane	ug/L	0.36U	0.50	02/02/14 17:11	
1,2,3-Trimethylbenzene	ug/L	1.0U	1.0	02/02/14 17:11	
1,2,4-Trichlorobenzene	ug/L	0.50U	1.0	02/02/14 17:11	
1,2,4-Trimethylbenzene	ug/L	0.50U	1.0	02/02/14 17:11	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	2.0	02/02/14 17:11	
1,2-Dibromoethane (EDB)	ug/L	0.50U	1.0	02/02/14 17:11	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	02/02/14 17:11	
1,2-Dichloroethane	ug/L	0.50U	1.0	02/02/14 17:11	
1,2-Dichloroethene (Total)	ug/L	0.50U	1.0	02/02/14 17:11	N2
1,2-Dichloropropane	ug/L	0.50U	1.0	02/02/14 17:11	
1,3,5-Trimethylbenzene	ug/L	0.50U	1.0	02/02/14 17:11	
1,3-Dichlorobenzene	ug/L	0.50U	1.0	02/02/14 17:11	
1,3-Dichloropropane	ug/L	0.50U	1.0	02/02/14 17:11	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	02/02/14 17:11	
2,2-Dichloropropane	ug/L	0.50U	1.0	02/02/14 17:11	
2-Butanone (MEK)	ug/L	5.0U	10.0	02/02/14 17:11	
2-Chloroethylvinyl ether	ug/L	0.50U	10.0	02/02/14 17:11	
2-Chlorotoluene	ug/L	0.50U	1.0	02/02/14 17:11	
2-Hexanone	ug/L	5.0U	10.0	02/02/14 17:11	
4-Chlorotoluene	ug/L	0.50U	1.0	02/02/14 17:11	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	10.0	02/02/14 17:11	
Acetone	ug/L	10.0U	20.0	02/02/14 17:11	
Acetonitrile	ug/L	5.0U	10.0	02/02/14 17:11	
Acrolein	ug/L	10.0U	20.0	02/02/14 17:11	
Acrylonitrile	ug/L	5.0U	10.0	02/02/14 17:11	
Benzene	ug/L	0.10U	1.0	02/02/14 17:11	
Bromobenzene	ug/L	0.50U	1.0	02/02/14 17:11	
Bromochloromethane	ug/L	0.50U	1.0	02/02/14 17:11	
Bromodichloromethane	ug/L	0.27U	0.60	02/02/14 17:11	
Bromoform	ug/L	0.50U	1.0	02/02/14 17:11	
Bromomethane	ug/L	0.50U	1.0	02/02/14 17:11	
Carbon disulfide	ug/L	5.0U	10.0	02/02/14 17:11	
Carbon tetrachloride	ug/L	0.50U	1.0	02/02/14 17:11	
Chlorobenzene	ug/L	0.50U	1.0	02/02/14 17:11	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

METHOD BLANK: 820935 Matrix: Water
Associated Lab Samples: 35124336001, 35124336002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	0.50U	1.0	02/02/14 17:11	
Chloroform	ug/L	0.50U	1.0	02/02/14 17:11	
Chloromethane	ug/L	0.62U	1.0	02/02/14 17:11	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	02/02/14 17:11	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	02/02/14 17:11	
Dibromochloromethane	ug/L	0.26U	0.50	02/02/14 17:11	
Dibromomethane	ug/L	0.50U	1.0	02/02/14 17:11	
Dichlorodifluoromethane	ug/L	0.50U	1.0	02/02/14 17:11	
Ethylbenzene	ug/L	0.50U	1.0	02/02/14 17:11	
Hexachloro-1,3-butadiene	ug/L	0.40U	1.0	02/02/14 17:11	
Iodomethane	ug/L	0.50U	1.0	02/02/14 17:11	
Isopropylbenzene (Cumene)	ug/L	0.50U	1.0	02/02/14 17:11	
m&p-Xylene	ug/L	0.50U	1.0	02/02/14 17:11	
Methyl-tert-butyl ether	ug/L	0.50U	1.0	02/02/14 17:11	
Methylene Chloride	ug/L	2.5U	5.0	02/02/14 17:11	
n-Butylbenzene	ug/L	0.50U	1.0	02/02/14 17:11	
n-Propylbenzene	ug/L	0.50U	1.0	02/02/14 17:11	
Naphthalene	ug/L	0.50U	1.0	02/02/14 17:11	
o-Xylene	ug/L	0.50U	1.0	02/02/14 17:11	
p-Isopropyltoluene	ug/L	0.50U	1.0	02/02/14 17:11	
sec-Butylbenzene	ug/L	0.50U	1.0	02/02/14 17:11	
Styrene	ug/L	0.50U	1.0	02/02/14 17:11	
tert-Butylbenzene	ug/L	0.50U	1.0	02/02/14 17:11	
Tetrachloroethene	ug/L	0.50U	1.0	02/02/14 17:11	
Toluene	ug/L	0.50U	1.0	02/02/14 17:11	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	02/02/14 17:11	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	02/02/14 17:11	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	10.0	02/02/14 17:11	
Trichloroethene	ug/L	0.50U	1.0	02/02/14 17:11	
Trichlorofluoromethane	ug/L	0.50U	1.0	02/02/14 17:11	
Vinyl acetate	ug/L	1.0U	2.0	02/02/14 17:11	
Vinyl chloride	ug/L	0.50U	1.0	02/02/14 17:11	
Xylene (Total)	ug/L	0.50U	1.0	02/02/14 17:11	
1,2-Dichloroethane-d4 (S)	%	95	86-125	02/02/14 17:11	
4-Bromofluorobenzene (S)	%	97	70-114	02/02/14 17:11	
Toluene-d8 (S)	%	103	87-113	02/02/14 17:11	

LABORATORY CONTROL SAMPLE: 820936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.6	93	70-130	
1,1,1-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.9	104	70-130	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.4	87	70-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

LABORATORY CONTROL SAMPLE: 820936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	20	20.2	101	70-130	
1,1-Dichloroethene	ug/L	20	18.3	92	70-130	
1,1-Dichloropropene	ug/L	20	21.2	106	70-130	
1,2,3-Trichlorobenzene	ug/L	20	22.1	111	70-137	
1,2,3-Trichloropropane	ug/L	20	17.7	88	70-130	
1,2,3-Trimethylbenzene	ug/L	20	20.1	100	70-135	
1,2,4-Trichlorobenzene	ug/L	20	23.2	116	70-130	
1,2,4-Trimethylbenzene	ug/L	20	21.2	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	93	64-130	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	20.3	102	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloroethene (Total)	ug/L	40	37.7	94	70-130	N2
1,2-Dichloropropane	ug/L	20	20.2	101	70-130	
1,3,5-Trimethylbenzene	ug/L	20	20.9	104	70-130	
1,3-Dichlorobenzene	ug/L	20	20.3	102	70-130	
1,3-Dichloropropane	ug/L	20	20.7	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.1	100	70-130	
2,2-Dichloropropane	ug/L	20	22.4	112	70-131	
2-Butanone (MEK)	ug/L	40	41.1	103	55-167	
2-Chloroethylvinyl ether	ug/L	40	40.4	101	70-130	
2-Chlorotoluene	ug/L	20	20.5	102	70-130	
2-Hexanone	ug/L	40	39.7	99	65-130	
4-Chlorotoluene	ug/L	20	20.7	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	40	42.0	105	70-130	
Acetone	ug/L	40	33.9	85	40-150	
Acetonitrile	ug/L	200	178	89	63-138	
Acrolein	ug/L	200	261	130	44-170	
Acrylonitrile	ug/L	200	233	116	70-130	
Benzene	ug/L	20	20.2	101	70-130	
Bromobenzene	ug/L	20	20.3	102	70-130	
Bromochloromethane	ug/L	20	20.3	102	70-130	
Bromodichloromethane	ug/L	20	18.7	94	70-130	
Bromoform	ug/L	20	16.7	84	68-130	
Bromomethane	ug/L	20	12.9	65	38-179	
Carbon disulfide	ug/L	20	17.3	86	51-155	
Carbon tetrachloride	ug/L	20	18.0	90	70-130	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	21.9	110	59-149	
Chloroform	ug/L	20	18.6	93	70-130	
Chloromethane	ug/L	20	13.2	66	68-130	J(L0)
cis-1,2-Dichloroethene	ug/L	20	19.7	99	70-130	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	70-130	
Dibromochloromethane	ug/L	20	18.2	91	70-130	
Dibromomethane	ug/L	20	19.9	100	70-130	
Dichlorodifluoromethane	ug/L	20	18.9	94	67-130	
Ethylbenzene	ug/L	20	20.5	103	70-130	
Hexachloro-1,3-butadiene	ug/L	20	21.4	107	70-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

LABORATORY CONTROL SAMPLE: 820936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	40	23.4	59	43-160	
Isopropylbenzene (Cumene)	ug/L	20	20.9	105	70-130	
m&p-Xylene	ug/L	40	41.9	105	70-130	
Methyl-tert-butyl ether	ug/L	20	18.4	92	70-130	
Methylene Chloride	ug/L	20	18.7	93	70-130	
n-Butylbenzene	ug/L	20	22.3	111	70-130	
n-Propylbenzene	ug/L	20	21.0	105	70-130	
Naphthalene	ug/L	20	22.6	113	70-141	
o-Xylene	ug/L	20	20.7	104	70-130	
p-Isopropyltoluene	ug/L	20	21.9	109	70-130	
sec-Butylbenzene	ug/L	20	21.7	108	70-130	
Styrene	ug/L	20	20.3	101	70-130	
tert-Butylbenzene	ug/L	20	23.0	115	70-130	
Tetrachloroethene	ug/L	20	14.0	70	66-133	
Toluene	ug/L	20	19.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.6	103	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.6	78	65-130	
Trichloroethene	ug/L	20	19.7	98	70-130	
Trichlorofluoromethane	ug/L	20	19.0	95	70-131	
Vinyl acetate	ug/L	40	59.8	149	69-135	J(L0)
Vinyl chloride	ug/L	20	21.2	106	69-140	
Xylene (Total)	ug/L	60	62.6	104	70-130	
1,2-Dichloroethane-d4 (S)	%			86	86-125	
4-Bromofluorobenzene (S)	%			102	70-114	
Toluene-d8 (S)	%			102	87-113	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 820939 820940

Parameter	Units	35124269001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	0.50U	20	20	16.6	15.2	83	76	39-130	9	40	
1,1,1-Trichloroethane	ug/L	0.50U	20	20	20.0	18.0	100	90	47-141	10	40	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	20	20	16.8	16.6	84	83	49-131	1	40	
1,1,2-Trichloroethane	ug/L	0.50U	20	20	17.2	16.0	86	80	50-130	7	40	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	20	20	14.3	18.6	71	93	36-187	26	40	
1,1-Dichloroethane	ug/L	0.50U	20	20	21.0	17.9	105	89	54-137	16	40	
1,1-Dichloroethene	ug/L	0.50U	20	20	20.1	18.9	100	94	45-155	6	40	
1,1-Dichloropropene	ug/L	0.50U	20	20	19.4	17.7	97	89	61-141	9	40	
1,2,3-Trichlorobenzene	ug/L	0.50U	20	20	19.9	19.0	100	95	36-137	5	40	
1,2,3-Trichloropropane	ug/L	0.36U	20	20	11.0	17.2	55	86	31-132	43	40	J(R1)
1,2,3-Trimethylbenzene	ug/L	41.8	20	20	46.2	53.8	22	60	53-148	15	40	J(M1)
1,2,4-Trichlorobenzene	ug/L	0.50U	20	20	20.8	19.6	104	98	34-138	6	40	
1,2,4-Trimethylbenzene	ug/L	51.2	20	20	55.8	60.2	23	45	34-138	8	40	J(M1)
1,2-Dibromo-3-chloropropane	ug/L	1.0U	20	20	14.1	13.9	71	70	37-130	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.50U	20	20	17.4	16.2	87	81	51-132	7	40	
1,2-Dichlorobenzene	ug/L	0.50U	20	20	17.4	16.9	87	84	43-130	3	40	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 820939 820940

Parameter	Units	35124269001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	0.50U	20	20	17.8	16.4	89	82	54-130	8	40	
1,2-Dichloroethene (Total)	ug/L	0.50U	40	40	38.7	35.8	97	90	50-150	8	40	N2
1,2-Dichloropropane	ug/L	0.50U	20	20	16.8	15.6	84	78	53-130	8	40	
1,3,5-Trimethylbenzene	ug/L	36.3	20	20	44.5	47.5	41	56	47-139	7	40	J(M1)
1,3-Dichlorobenzene	ug/L	0.50U	20	20	17.7	17.0	88	85	47-128	4	40	
1,3-Dichloropropane	ug/L	0.50U	20	20	15.8	14.8	79	74	59-127	6	40	
1,4-Dichlorobenzene	ug/L	0.50U	20	20	17.2	16.7	86	84	38-130	3	40	
2,2-Dichloropropane	ug/L	0.50U	20	20	20.7	18.6	103	93	24-133	11	40	
2-Butanone (MEK)	ug/L	5.0U	40	40	23.8	32.3	59	81	48-138	30	40	
2-Chloroethylvinyl ether	ug/L	0.50U	40	40	0.50U	0.50U	0	0	20-183		40	J(M1)
2-Chlorotoluene	ug/L	0.50U	20	20	20.4	19.9	102	99	54-136	3	40	
2-Hexanone	ug/L	5.0U	40	40	25.2	34.8	63	87	38-130	32	40	
4-Chlorotoluene	ug/L	0.50U	20	20	17.5	16.6	88	83	53-134	5	40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	40	40	26.5	35.8	66	90	28-143	30	40	
Acetone	ug/L	10.0U	40	40	19.9 I	25.9	50	65	20-140		40	
Acetonitrile	ug/L	5.0U	200	200	121	155	61	78	44-138	24	40	
Acrolein	ug/L	10.0U	200	200	90.4	109	45	54	20-159	18	40	
Acrylonitrile	ug/L	5.0U	200	200	185	206	93	103	46-130	10	40	
Benzene	ug/L	0.10U	20	20	20.1	19.1	101	96	53-132	5	40	
Bromobenzene	ug/L	0.50U	20	20	18.0	17.1	90	85	53-132	5	40	
Bromochloromethane	ug/L	0.50U	20	20	20.8	18.7	104	94	54-132	10	40	
Bromodichloromethane	ug/L	0.27U	20	20	17.3	15.8	87	79	46-130	9	40	
Bromoform	ug/L	0.50U	20	20	13.3	12.4	67	62	32-130	7	40	
Bromomethane	ug/L	0.50U	20	20	10.5	11.5	53	57	20-152	8	40	
Carbon disulfide	ug/L	5.0U	20	20	12.9	15.6	63	77	28-184	19	40	
Carbon tetrachloride	ug/L	0.50U	20	20	19.7	17.6	98	88	37-137	11	40	
Chlorobenzene	ug/L	0.50U	20	20	18.7	17.4	92	85	46-130	7	40	
Chloroethane	ug/L	0.50U	20	20	18.4	17.8	92	89	48-159	3	40	
Chloroform	ug/L	0.50U	20	20	18.4	17.1	92	85	51-130	8	40	
Chloromethane	ug/L	0.62U	20	20	16.0	17.0	80	85	39-144	6	40	
cis-1,2-Dichloroethene	ug/L	0.50U	20	20	19.4	18.3	97	92	54-130	6	40	
cis-1,3-Dichloropropene	ug/L	0.25U	20	20	16.4	15.4	82	77	45-130	7	40	
Dibromochloromethane	ug/L	0.26U	20	20	15.7	14.4	78	72	43-130	8	40	
Dibromomethane	ug/L	0.50U	20	20	18.3	16.8	92	84	50-130	8	40	
Dichlorodifluoromethane	ug/L	0.50U	20	20	17.2	16.5	86	83	38-151	4	40	
Ethylbenzene	ug/L	0.50U	20	20	19.1	18.0	95	89	43-130	6	40	
Hexachloro-1,3-butadiene	ug/L	0.40U	20	20	19.4	18.2	97	91	35-136	6	40	
Iodomethane	ug/L	0.50U	40	40	25.3	32.2	63	81	20-169	24	40	
Isopropylbenzene (Cumene)	ug/L	3.0	20	20	21.7	20.7	93	88	49-140	5	40	
m&p-Xylene	ug/L	0.90 I	40	40	39.2	36.5	96	89	40-130	7	40	
Methyl-tert-butyl ether	ug/L	0.50U	20	20	11.4	14.9	57	75	20-150	26	40	
Methylene Chloride	ug/L	2.5U	20	20	19.2	16.7	96	83	51-135	14	40	
n-Butylbenzene	ug/L	1.2	20	20	23.7	22.6	113	107	41-146	5	40	
n-Propylbenzene	ug/L	6.1	20	20	23.0	22.8	84	84	49-141	.8	40	
Naphthalene	ug/L	5.9	20	20	25.6	24.1	99	91	20-166	6	40	
o-Xylene	ug/L	1.0	20	20	19.4	18.5	92	87	45-130	5	40	
p-Isopropyltoluene	ug/L	8.4	20	20	21.8	21.1	67	63	45-143	3	40	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 820939 820940

Parameter	Units	35124269001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
sec-Butylbenzene	ug/L	2.7	20	20	21.3	20.8	93	90	48-143	3	40	
Styrene	ug/L	0.50U	20	20	18.0	16.8	90	84	40-130	7	40	
tert-Butylbenzene	ug/L	1.4	20	20	21.5	21.9	100	102	51-140	2	40	
Tetrachloroethene	ug/L	0.50U	20	20	12.5	11.2	63	56	26-130	12	40	
Toluene	ug/L	0.50U	20	20	18.8	17.6	94	88	50-130	6	40	
trans-1,2-Dichloroethene	ug/L	0.50U	20	20	19.3	17.5	97	88	48-142	10	40	
trans-1,3-Dichloropropene	ug/L	0.25U	20	20	14.7	13.9	73	69	45-130	6	40	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	20	20	7.8 I	10.4	39	52	20-139		40	
Trichloroethene	ug/L	0.50U	20	20	19.7	18.3	98	91	42-133	7	40	
Trichlorofluoromethane	ug/L	0.50U	20	20	17.2	16.7	86	83	46-146	3	40	
Vinyl acetate	ug/L	1.0U	40	40	34.8	43.7	87	109	20-165	23	40	
Vinyl chloride	ug/L	0.50U	20	20	20.1	19.6	101	98	57-142	3	40	
Xylene (Total)	ug/L	1.9	60	60	58.6	55.0	95	88	42-130	6	40	
1,2-Dichloroethane-d4 (S)	%						91	88	86-125			
4-Bromofluorobenzene (S)	%						100	101	70-114			
Toluene-d8 (S)	%						102	103	87-113			

SAMPLE DUPLICATE: 820937

Parameter	Units	35124311007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		0.50U		40	
1,1,1-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.12U		40	
1,1,2-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1,2-Trichlorotrifluoroethane	ug/L		0.50U		40	
1,1-Dichloroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethene	ug/L	0.50U	0.50U		40	
1,1-Dichloropropene	ug/L		0.50U		40	
1,2,3-Trichlorobenzene	ug/L		0.50U		40	
1,2,3-Trichloropropane	ug/L		0.36U		40	
1,2,3-Trimethylbenzene	ug/L		1.0U		40	
1,2,4-Trichlorobenzene	ug/L		0.50U		40	
1,2,4-Trimethylbenzene	ug/L		0.50U		40	
1,2-Dibromo-3-chloropropane	ug/L		1.0U		40	
1,2-Dibromoethane (EDB)	ug/L		0.50U		40	
1,2-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,2-Dichloroethane	ug/L	0.50U	0.50U		40	
1,2-Dichloroethene (Total)	ug/L		0.50U		40	N2
1,2-Dichloropropane	ug/L	0.50U	0.50U		40	
1,3,5-Trimethylbenzene	ug/L		0.50U		40	
1,3-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,3-Dichloropropane	ug/L		0.50U		40	
1,4-Dichlorobenzene	ug/L	0.50U	0.50U		40	
2,2-Dichloropropane	ug/L		0.50U		40	
2-Butanone (MEK)	ug/L		5.0U		40	
2-Chloroethylvinyl ether	ug/L		0.50U		40	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

SAMPLE DUPLICATE: 820937

Parameter	Units	35124311007 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Chlorotoluene	ug/L		0.50U		40	
2-Hexanone	ug/L		5.0U		40	
4-Chlorotoluene	ug/L		0.50U		40	
4-Methyl-2-pentanone (MIBK)	ug/L		5.0U		40	
Acetone	ug/L		10.0U		40	
Acetonitrile	ug/L		5.0U		40	
Acrolein	ug/L		10.0U		40	
Acrylonitrile	ug/L		5.0U		40	
Benzene	ug/L		0.10U		40	
Bromobenzene	ug/L		0.50U		40	
Bromochloromethane	ug/L		0.50U		40	
Bromodichloromethane	ug/L	0.27U	0.27U		40	
Bromoform	ug/L	0.50U	0.50U		40	
Bromomethane	ug/L	0.50U	0.50U		40	
Carbon disulfide	ug/L		5.0U		40	
Carbon tetrachloride	ug/L	0.50U	0.50U		40	
Chlorobenzene	ug/L	0.50U	0.50U		40	
Chloroethane	ug/L	0.50U	0.50U		40	
Chloroform	ug/L	0.50U	0.50U		40	
Chloromethane	ug/L	0.62U	0.62U		40	
cis-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
cis-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
Dibromochloromethane	ug/L	0.26U	0.26U		40	
Dibromomethane	ug/L		0.50U		40	
Dichlorodifluoromethane	ug/L	0.50U	0.50U		40	
Ethylbenzene	ug/L		0.50U		40	
Hexachloro-1,3-butadiene	ug/L		0.40U		40	
Iodomethane	ug/L		0.50U		40	
Isopropylbenzene (Cumene)	ug/L		0.50U		40	
m&p-Xylene	ug/L		0.50U		40	
Methyl-tert-butyl ether	ug/L		0.50U		40	
Methylene Chloride	ug/L	2.5U	2.5U		40	
n-Butylbenzene	ug/L		0.50U		40	
n-Propylbenzene	ug/L		0.50U		40	
Naphthalene	ug/L		0.50U		40	
o-Xylene	ug/L		0.50U		40	
p-Isopropyltoluene	ug/L		0.50U		40	
sec-Butylbenzene	ug/L		0.50U		40	
Styrene	ug/L		0.50U		40	
tert-Butylbenzene	ug/L		0.50U		40	
Tetrachloroethene	ug/L	0.50U	0.50U		40	
Toluene	ug/L		0.50U		40	
trans-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
trans-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
trans-1,4-Dichloro-2-butene	ug/L		5.0U		40	
Trichloroethene	ug/L	0.50U	0.50U		40	
Trichlorofluoromethane	ug/L	0.50U	0.50U		40	
Vinyl acetate	ug/L		1.0U		40	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

SAMPLE DUPLICATE: 820937

Parameter	Units	35124311007 Result	Dup Result	RPD	Max RPD	Qualifiers
Vinyl chloride	ug/L	0.50U	0.50U		40	
Xylene (Total)	ug/L		0.50U		40	
1,2-Dichloroethane-d4 (S)	%	94	94	.1		
4-Bromofluorobenzene (S)	%	96	95	.8		
Toluene-d8 (S)	%	102	101	1		

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

QC Batch: MSV/10753 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35124336003, 35124336004, 35124336005

METHOD BLANK: 821863 Matrix: Water
Associated Lab Samples: 35124336003, 35124336004, 35124336005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	1.0	02/04/14 10:10	
1,1,1-Trichloroethane	ug/L	0.50U	1.0	02/04/14 10:10	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.50	02/04/14 10:10	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	02/04/14 10:10	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	1.0	02/04/14 10:10	
1,1-Dichloroethane	ug/L	0.50U	1.0	02/04/14 10:10	
1,1-Dichloroethene	ug/L	0.50U	1.0	02/04/14 10:10	
1,1-Dichloropropene	ug/L	0.50U	1.0	02/04/14 10:10	
1,2,3-Trichlorobenzene	ug/L	0.50U	1.0	02/04/14 10:10	
1,2,3-Trichloropropane	ug/L	0.36U	0.50	02/04/14 10:10	
1,2,3-Trimethylbenzene	ug/L	1.0U	1.0	02/04/14 10:10	
1,2,4-Trichlorobenzene	ug/L	0.50U	1.0	02/04/14 10:10	
1,2,4-Trimethylbenzene	ug/L	0.50U	1.0	02/04/14 10:10	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	2.0	02/04/14 10:10	
1,2-Dibromoethane (EDB)	ug/L	0.50U	1.0	02/04/14 10:10	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	02/04/14 10:10	
1,2-Dichloroethane	ug/L	0.50U	1.0	02/04/14 10:10	
1,2-Dichloroethene (Total)	ug/L	0.50U	1.0	02/04/14 10:10	N2
1,2-Dichloropropane	ug/L	0.50U	1.0	02/04/14 10:10	
1,3,5-Trimethylbenzene	ug/L	0.50U	1.0	02/04/14 10:10	
1,3-Dichlorobenzene	ug/L	0.50U	1.0	02/04/14 10:10	
1,3-Dichloropropane	ug/L	0.50U	1.0	02/04/14 10:10	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	02/04/14 10:10	
2,2-Dichloropropane	ug/L	0.50U	1.0	02/04/14 10:10	
2-Butanone (MEK)	ug/L	5.0U	10.0	02/04/14 10:10	
2-Chloroethylvinyl ether	ug/L	0.50U	10.0	02/04/14 10:10	
2-Chlorotoluene	ug/L	0.50U	1.0	02/04/14 10:10	
2-Hexanone	ug/L	5.0U	10.0	02/04/14 10:10	
4-Chlorotoluene	ug/L	0.50U	1.0	02/04/14 10:10	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	10.0	02/04/14 10:10	
Acetone	ug/L	10.0U	20.0	02/04/14 10:10	
Acetonitrile	ug/L	5.0U	10.0	02/04/14 10:10	
Acrolein	ug/L	10.0U	20.0	02/04/14 10:10	
Acrylonitrile	ug/L	5.0U	10.0	02/04/14 10:10	
Benzene	ug/L	0.10U	1.0	02/04/14 10:10	
Bromobenzene	ug/L	0.50U	1.0	02/04/14 10:10	
Bromochloromethane	ug/L	0.50U	1.0	02/04/14 10:10	
Bromodichloromethane	ug/L	0.27U	0.60	02/04/14 10:10	
Bromoform	ug/L	0.50U	1.0	02/04/14 10:10	
Bromomethane	ug/L	0.50U	1.0	02/04/14 10:10	
Carbon disulfide	ug/L	5.0U	10.0	02/04/14 10:10	
Carbon tetrachloride	ug/L	0.50U	1.0	02/04/14 10:10	
Chlorobenzene	ug/L	0.50U	1.0	02/04/14 10:10	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

METHOD BLANK: 821863 Matrix: Water
Associated Lab Samples: 35124336003, 35124336004, 35124336005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	0.50U	1.0	02/04/14 10:10	
Chloroform	ug/L	0.50U	1.0	02/04/14 10:10	
Chloromethane	ug/L	0.62U	1.0	02/04/14 10:10	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	02/04/14 10:10	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	02/04/14 10:10	
Dibromochloromethane	ug/L	0.26U	0.50	02/04/14 10:10	
Dibromomethane	ug/L	0.50U	1.0	02/04/14 10:10	
Dichlorodifluoromethane	ug/L	0.50U	1.0	02/04/14 10:10	
Ethylbenzene	ug/L	0.50U	1.0	02/04/14 10:10	
Hexachloro-1,3-butadiene	ug/L	0.40U	1.0	02/04/14 10:10	
Iodomethane	ug/L	0.50U	1.0	02/04/14 10:10	
Isopropylbenzene (Cumene)	ug/L	0.50U	1.0	02/04/14 10:10	
m&p-Xylene	ug/L	0.50U	1.0	02/04/14 10:10	
Methyl-tert-butyl ether	ug/L	0.50U	1.0	02/04/14 10:10	
Methylene Chloride	ug/L	2.5U	5.0	02/04/14 10:10	
n-Butylbenzene	ug/L	0.50U	1.0	02/04/14 10:10	
n-Propylbenzene	ug/L	0.50U	1.0	02/04/14 10:10	
Naphthalene	ug/L	0.50U	1.0	02/04/14 10:10	
o-Xylene	ug/L	0.50U	1.0	02/04/14 10:10	
p-Isopropyltoluene	ug/L	0.50U	1.0	02/04/14 10:10	
sec-Butylbenzene	ug/L	0.50U	1.0	02/04/14 10:10	
Styrene	ug/L	0.50U	1.0	02/04/14 10:10	
tert-Butylbenzene	ug/L	0.50U	1.0	02/04/14 10:10	
Tetrachloroethene	ug/L	0.50U	1.0	02/04/14 10:10	
Toluene	ug/L	0.50U	1.0	02/04/14 10:10	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	02/04/14 10:10	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	02/04/14 10:10	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	10.0	02/04/14 10:10	
Trichloroethene	ug/L	0.50U	1.0	02/04/14 10:10	
Trichlorofluoromethane	ug/L	0.50U	1.0	02/04/14 10:10	
Vinyl acetate	ug/L	1.0U	2.0	02/04/14 10:10	
Vinyl chloride	ug/L	0.50U	1.0	02/04/14 10:10	
Xylene (Total)	ug/L	0.50U	1.0	02/04/14 10:10	
1,2-Dichloroethane-d4 (S)	%	101	86-125	02/04/14 10:10	
4-Bromofluorobenzene (S)	%	104	70-114	02/04/14 10:10	
Toluene-d8 (S)	%	112	87-113	02/04/14 10:10	

LABORATORY CONTROL SAMPLE: 821864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	93	70-130	
1,1,1-Trichloroethane	ug/L	20	20.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	70-130	
1,1,2-Trichloroethane	ug/L	20	18.5	92	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	23.0	115	70-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

LABORATORY CONTROL SAMPLE: 821864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethene	ug/L	20	19.0	95	70-130	
1,1-Dichloropropene	ug/L	20	23.5	117	70-130	
1,2,3-Trichlorobenzene	ug/L	20	18.1	90	70-137	
1,2,3-Trichloropropane	ug/L	20	19.2	96	70-130	
1,2,3-Trimethylbenzene	ug/L	20	16.1	81	70-135	
1,2,4-Trichlorobenzene	ug/L	20	18.5	93	70-130	
1,2,4-Trimethylbenzene	ug/L	20	18.7	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.3	87	64-130	
1,2-Dibromoethane (EDB)	ug/L	20	18.3	91	70-130	
1,2-Dichlorobenzene	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane	ug/L	20	21.8	109	70-130	
1,2-Dichloroethene (Total)	ug/L	40	40.7	102	70-130	N2
1,2-Dichloropropane	ug/L	20	23.6	118	70-130	
1,3,5-Trimethylbenzene	ug/L	20	18.6	93	70-130	
1,3-Dichlorobenzene	ug/L	20	18.8	94	70-130	
1,3-Dichloropropane	ug/L	20	20.5	102	70-130	
1,4-Dichlorobenzene	ug/L	20	18.7	93	70-130	
2,2-Dichloropropane	ug/L	20	22.9	114	70-131	
2-Butanone (MEK)	ug/L	40	37.3	93	55-167	
2-Chloroethylvinyl ether	ug/L	40	38.0	95	70-130	
2-Chlorotoluene	ug/L	20	18.9	95	70-130	
2-Hexanone	ug/L	40	31.0	77	65-130	
4-Chlorotoluene	ug/L	20	19.5	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	40	34.6	87	70-130	
Acetone	ug/L	40	33.9	85	40-150	
Acetonitrile	ug/L	200	291	146	63-138	J(L0)
Acrolein	ug/L	200	228	114	44-170	
Acrylonitrile	ug/L	200	225	112	70-130	
Benzene	ug/L	20	21.0	105	70-130	
Bromobenzene	ug/L	20	18.3	91	70-130	
Bromochloromethane	ug/L	20	21.3	107	70-130	
Bromodichloromethane	ug/L	20	20.5	103	70-130	
Bromoform	ug/L	20	18.3	92	68-130	
Bromomethane	ug/L	20	26.0	130	38-179	
Carbon disulfide	ug/L	20	24.2	121	51-155	
Carbon tetrachloride	ug/L	20	20.5	102	70-130	
Chlorobenzene	ug/L	20	18.9	94	70-130	
Chloroethane	ug/L	20	20.2	101	59-149	
Chloroform	ug/L	20	21.6	108	70-130	
Chloromethane	ug/L	20	27.4	137	68-130	J(L0)
cis-1,2-Dichloroethene	ug/L	20	19.9	100	70-130	
cis-1,3-Dichloropropene	ug/L	20	24.7	124	70-130	
Dibromochloromethane	ug/L	20	17.4	87	70-130	
Dibromomethane	ug/L	20	22.0	110	70-130	
Dichlorodifluoromethane	ug/L	20	23.4	117	67-130	
Ethylbenzene	ug/L	20	18.9	94	70-130	
Hexachloro-1,3-butadiene	ug/L	20	18.0	90	70-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

LABORATORY CONTROL SAMPLE: 821864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	40	46.5	116	43-160	
Isopropylbenzene (Cumene)	ug/L	20	20.2	101	70-130	
m&p-Xylene	ug/L	40	35.5	89	70-130	
Methyl-tert-butyl ether	ug/L	20	23.2	116	70-130	
Methylene Chloride	ug/L	20	20.5	102	70-130	
n-Butylbenzene	ug/L	20	18.7	94	70-130	
n-Propylbenzene	ug/L	20	18.1	91	70-130	
Naphthalene	ug/L	20	16.9	84	70-141	
o-Xylene	ug/L	20	20.0	100	70-130	
p-Isopropyltoluene	ug/L	20	19.3	97	70-130	
sec-Butylbenzene	ug/L	20	19.4	97	70-130	
Styrene	ug/L	20	19.9	99	70-130	
tert-Butylbenzene	ug/L	20	19.4	97	70-130	
Tetrachloroethene	ug/L	20	15.7	79	66-133	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.8	104	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.9	109	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	17.9	90	65-130	
Trichloroethene	ug/L	20	21.2	106	70-130	
Trichlorofluoromethane	ug/L	20	20.9	104	70-131	
Vinyl acetate	ug/L	40	47.5	119	69-135	
Vinyl chloride	ug/L	20	21.2	106	69-140	
Xylene (Total)	ug/L	60	55.5	93	70-130	
1,2-Dichloroethane-d4 (S)	%			92	86-125	
4-Bromofluorobenzene (S)	%			103	70-114	
Toluene-d8 (S)	%			109	87-113	

MATRIX SPIKE SAMPLE: 821969

Parameter	Units	35124127001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	20	18.0	90	39-130	
1,1,1-Trichloroethane	ug/L	0.50U	20	32.0	160	47-141	J(M1)
1,1,2,2-Tetrachloroethane	ug/L	0.12U	20	17.2	86	49-131	
1,1,2-Trichloroethane	ug/L	0.50U	20	18.0	90	50-130	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	20	38.3	192	36-187	J(M1)
1,1-Dichloroethane	ug/L	0.50U	20	30.6	153	54-137	J(M1)
1,1-Dichloroethene	ug/L	0.50U	20	29.5	147	45-155	
1,1-Dichloropropene	ug/L	0.50U	20	35.0	175	61-141	J(M1)
1,2,3-Trichlorobenzene	ug/L	0.50U	20	20.3	102	36-137	
1,2,3-Trichloropropane	ug/L	0.36U	20	14.9	75	31-132	
1,2,3-Trimethylbenzene	ug/L	1.0U	20	13.3	67	53-148	
1,2,4-Trichlorobenzene	ug/L	0.50U	20	16.7	83	34-138	
1,2,4-Trimethylbenzene	ug/L	0.50U	20	15.4	76	34-138	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	20	18.6	93	37-130	
1,2-Dibromoethane (EDB)	ug/L	0.50U	20	17.6	88	51-132	
1,2-Dichlorobenzene	ug/L	0.50U	20	15.3	77	43-130	
1,2-Dichloroethane	ug/L	0.50U	20	30.8	154	54-130	J(M1)

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

MATRIX SPIKE SAMPLE: 821969

Parameter	Units	35124127001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	0.50U	40	59.5	149	50-150	N2
1,2-Dichloropropane	ug/L	0.50U	20	33.7	168	53-130	J(M1)
1,3,5-Trimethylbenzene	ug/L	0.50U	20	15.3	76	47-139	
1,3-Dichlorobenzene	ug/L	0.50U	20	15.4	77	47-128	
1,3-Dichloropropane	ug/L	0.50U	20	19.3	97	59-127	
1,4-Dichlorobenzene	ug/L	0.50U	20	15.4	77	38-130	
2,2-Dichloropropane	ug/L	0.50U	20	31.4	157	24-133	J(M1)
2-Butanone (MEK)	ug/L	5.0U	40	56.5	141	48-138	J(M1)
2-Chloroethylvinyl ether	ug/L	0.50U	40	0.50U	0	20-183	J(M1)
2-Chlorotoluene	ug/L	0.50U	20	15.8	79	54-136	
2-Hexanone	ug/L	5.0U	40	33.7	84	38-130	
4-Chlorotoluene	ug/L	0.50U	20	16.3	82	53-134	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	40	34.5	86	28-143	
Acetone	ug/L	11.6 I	40	91.2	199	20-140	J(M1)
Acetonitrile	ug/L	5.0U	200	452	226	44-138	J(M0)
Acrolein	ug/L	10.0U	200	283	142	20-159	
Acrylonitrile	ug/L	5.0U	200	316	158	46-130	J(M1)
Benzene	ug/L	0.10U	20	30.9	154	53-132	J(M1)
Bromobenzene	ug/L	0.50U	20	15.1	76	53-132	
Bromochloromethane	ug/L	0.50U	20	30.6	153	54-132	J(M1)
Bromodichloromethane	ug/L	0.27U	20	29.6	148	46-130	J(M1)
Bromoform	ug/L	0.50U	20	17.0	85	32-130	
Bromomethane	ug/L	0.50U	20	13.8	69	20-152	
Carbon disulfide	ug/L	5.0U	20	39.2	196	28-184	J(M1)
Carbon tetrachloride	ug/L	0.50U	20	31.2	156	37-137	J(M1)
Chlorobenzene	ug/L	0.50U	20	17.9	89	46-130	
Chloroethane	ug/L	0.50U	20	32.7	164	48-159	J(M1)
Chloroform	ug/L	0.50U	20	31.3	156	51-130	J(M1)
Chloromethane	ug/L	0.62U	20	27.8	139	39-144	
cis-1,2-Dichloroethene	ug/L	0.50U	20	29.1	146	54-130	J(M1)
cis-1,3-Dichloropropene	ug/L	0.25U	20	32.7	164	45-130	J(M1)
Dibromochloromethane	ug/L	0.26U	20	16.7	84	43-130	
Dibromomethane	ug/L	0.50U	20	30.7	154	50-130	J(M1)
Dichlorodifluoromethane	ug/L	0.50U	20	43.9	219	38-151	J(M1)
Ethylbenzene	ug/L	0.50U	20	17.9	90	43-130	
Hexachloro-1,3-butadiene	ug/L	0.40U	20	14.6	73	35-136	
Iodomethane	ug/L	0.50U	40	29.8	74	20-169	
Isopropylbenzene (Cumene)	ug/L	0.50U	20	18.9	94	49-140	
m&p-Xylene	ug/L	0.50U	40	33.4	83	40-130	
Methyl-tert-butyl ether	ug/L	0.50U	20	32.7	163	20-150	J(M1)
Methylene Chloride	ug/L	2.5U	20	28.8	144	51-135	J(M1)
n-Butylbenzene	ug/L	0.50U	20	14.3	71	41-146	
n-Propylbenzene	ug/L	1.1	20	14.9	69	49-141	
Naphthalene	ug/L	0.50U	20	23.1	116	20-166	
o-Xylene	ug/L	0.50U	20	18.7	94	45-130	
p-Isopropyltoluene	ug/L	0.50U	20	15.3	77	45-143	
sec-Butylbenzene	ug/L	0.50U	20	15.9	79	48-143	
Styrene	ug/L	0.50U	20	18.4	92	40-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

MATRIX SPIKE SAMPLE: 821969

Parameter	Units	35124127001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	0.50U	20	16.8	84	51-140	
Tetrachloroethene	ug/L	0.50U	20	12.9	64	26-130	
Toluene	ug/L	0.50U	20	18.4	92	50-130	
trans-1,2-Dichloroethene	ug/L	0.50U	20	30.4	152	48-142	J(M1)
trans-1,3-Dichloropropene	ug/L	0.25U	20	19.5	98	45-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	20	13.5	68	20-139	
Trichloroethene	ug/L	0.50U	20	30.5	152	42-133	J(M1)
Trichlorofluoromethane	ug/L	0.50U	20	38.1	191	46-146	J(M1)
Vinyl acetate	ug/L	1.0U	40	64.3	161	20-165	
Vinyl chloride	ug/L	0.50U	20	34.8	174	57-142	J(M1)
Xylene (Total)	ug/L	0.50U	60	52.1	87	42-130	
1,2-Dichloroethane-d4 (S)	%				108	86-125	
4-Bromofluorobenzene (S)	%				111	70-114	
Toluene-d8 (S)	%				133	87-113	J(S0)

SAMPLE DUPLICATE: 821970

Parameter	Units	35124127002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	0.50U		40	
1,1,1-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.12U		40	
1,1,2-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethene	ug/L	0.50U	0.50U		40	
1,1-Dichloropropene	ug/L	0.50U	0.50U		40	
1,2,3-Trichlorobenzene	ug/L	0.50U	0.50U		40	
1,2,3-Trichloropropane	ug/L	0.36U	0.36U		40	
1,2,3-Trimethylbenzene	ug/L	1.0U	1.0U		40	
1,2,4-Trichlorobenzene	ug/L	0.50U	0.50U		40	
1,2,4-Trimethylbenzene	ug/L	0.50U	0.50U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	1.0U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50U	0.50U		40	
1,2-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,2-Dichloroethane	ug/L	0.50U	0.50U		40	
1,2-Dichloroethene (Total)	ug/L	0.50U	0.50U		40	N2
1,2-Dichloropropane	ug/L	0.50U	0.50U		40	
1,3,5-Trimethylbenzene	ug/L	0.50U	0.50U		40	
1,3-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,3-Dichloropropane	ug/L	0.50U	0.50U		40	
1,4-Dichlorobenzene	ug/L	0.50U	0.50U		40	
2,2-Dichloropropane	ug/L	0.50U	0.50U		40	
2-Butanone (MEK)	ug/L	5.0U	5.0U		40	
2-Chloroethylvinyl ether	ug/L	0.50U	0.50U		40	
2-Chlorotoluene	ug/L	0.50U	0.50U		40	
2-Hexanone	ug/L	5.0U	5.0U		40	
4-Chlorotoluene	ug/L	0.50U	0.50U		40	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

SAMPLE DUPLICATE: 821970

Parameter	Units	35124127002 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	5.0U		40	
Acetone	ug/L	29.1	10.0U		40	
Acetonitrile	ug/L	5.0U	5.0U		40	
Acrolein	ug/L	10.0U	10.0U		40	
Acrylonitrile	ug/L	5.0U	5.0U		40	
Benzene	ug/L	0.10U	0.10U		40	
Bromobenzene	ug/L	0.50U	0.50U		40	
Bromochloromethane	ug/L	0.50U	0.50U		40	
Bromodichloromethane	ug/L	0.27U	0.27U		40	
Bromoform	ug/L	0.50U	0.50U		40	
Bromomethane	ug/L	0.50U	0.50U		40	
Carbon disulfide	ug/L	5.0U	5.0U		40	
Carbon tetrachloride	ug/L	0.50U	0.50U		40	
Chlorobenzene	ug/L	0.50U	0.50U		40	
Chloroethane	ug/L	0.50U	0.50U		40	
Chloroform	ug/L	0.50U	0.50U		40	
Chloromethane	ug/L	0.62U	0.62U		40	
cis-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
cis-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
Dibromochloromethane	ug/L	0.26U	0.26U		40	
Dibromomethane	ug/L	0.50U	0.50U		40	
Dichlorodifluoromethane	ug/L	0.50U	0.50U		40	
Ethylbenzene	ug/L	0.50U	0.50U		40	
Hexachloro-1,3-butadiene	ug/L	0.40U	0.40U		40	
Iodomethane	ug/L	0.50U	0.50U		40	
Isopropylbenzene (Cumene)	ug/L	0.50U	0.50U		40	
m&p-Xylene	ug/L	0.50U	0.50U		40	
Methyl-tert-butyl ether	ug/L	0.50U	0.50U		40	
Methylene Chloride	ug/L	2.5U	2.5U		40	
n-Butylbenzene	ug/L	0.50U	0.50U		40	
n-Propylbenzene	ug/L	0.50U	0.50U		40	
Naphthalene	ug/L	0.50U	0.50U		40	
o-Xylene	ug/L	0.50U	0.50U		40	
p-Isopropyltoluene	ug/L	0.50U	0.50U		40	
sec-Butylbenzene	ug/L	0.50U	0.50U		40	
Styrene	ug/L	0.50U	0.50U		40	
tert-Butylbenzene	ug/L	0.50U	0.50U		40	
Tetrachloroethene	ug/L	0.50U	0.50U		40	
Toluene	ug/L	0.50U	0.50U		40	
trans-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
trans-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	5.0U		40	
Trichloroethene	ug/L	0.50U	0.50U		40	
Trichlorofluoromethane	ug/L	0.50U	0.50U		40	
Vinyl acetate	ug/L	1.0U	1.0U		40	
Vinyl chloride	ug/L	0.50U	0.50U		40	
Xylene (Total)	ug/L	0.50U	0.50U		40	
1,2-Dichloroethane-d4 (S)	%	104	103	2		

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

SAMPLE DUPLICATE: 821970

Parameter	Units	35124127002 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	108	102	6		
Toluene-d8 (S)	%	127	119	6		S3

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

QC Batch: MSV/10763 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35124336006, 35124336007, 35124336008

METHOD BLANK: 822045 Matrix: Water
Associated Lab Samples: 35124336006, 35124336007, 35124336008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	1.0	02/04/14 22:26	
1,1,1-Trichloroethane	ug/L	0.50U	1.0	02/04/14 22:26	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.50	02/04/14 22:26	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	02/04/14 22:26	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	1.0	02/04/14 22:26	
1,1-Dichloroethane	ug/L	0.50U	1.0	02/04/14 22:26	
1,1-Dichloroethene	ug/L	0.50U	1.0	02/04/14 22:26	
1,1-Dichloropropene	ug/L	0.50U	1.0	02/04/14 22:26	
1,2,3-Trichlorobenzene	ug/L	0.50U	1.0	02/04/14 22:26	
1,2,3-Trichloropropane	ug/L	0.36U	0.50	02/04/14 22:26	
1,2,3-Trimethylbenzene	ug/L	1.0U	1.0	02/04/14 22:26	
1,2,4-Trichlorobenzene	ug/L	0.50U	1.0	02/04/14 22:26	
1,2,4-Trimethylbenzene	ug/L	0.50U	1.0	02/04/14 22:26	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	2.0	02/04/14 22:26	
1,2-Dibromoethane (EDB)	ug/L	0.50U	1.0	02/04/14 22:26	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	02/04/14 22:26	
1,2-Dichloroethane	ug/L	0.50U	1.0	02/04/14 22:26	
1,2-Dichloroethene (Total)	ug/L	0.50U	1.0	02/04/14 22:26	N2
1,2-Dichloropropane	ug/L	0.50U	1.0	02/04/14 22:26	
1,3,5-Trimethylbenzene	ug/L	0.50U	1.0	02/04/14 22:26	
1,3-Dichlorobenzene	ug/L	0.50U	1.0	02/04/14 22:26	
1,3-Dichloropropane	ug/L	0.50U	1.0	02/04/14 22:26	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	02/04/14 22:26	
2,2-Dichloropropane	ug/L	0.50U	1.0	02/04/14 22:26	
2-Butanone (MEK)	ug/L	5.0U	10.0	02/04/14 22:26	
2-Chloroethylvinyl ether	ug/L	0.50U	10.0	02/04/14 22:26	
2-Chlorotoluene	ug/L	0.50U	1.0	02/04/14 22:26	
2-Hexanone	ug/L	5.0U	10.0	02/04/14 22:26	
4-Chlorotoluene	ug/L	0.50U	1.0	02/04/14 22:26	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	10.0	02/04/14 22:26	
Acetone	ug/L	10.0U	20.0	02/04/14 22:26	
Acetonitrile	ug/L	5.0U	10.0	02/04/14 22:26	
Acrolein	ug/L	10.0U	20.0	02/04/14 22:26	
Acrylonitrile	ug/L	5.0U	10.0	02/04/14 22:26	
Benzene	ug/L	0.10U	1.0	02/04/14 22:26	
Bromobenzene	ug/L	0.50U	1.0	02/04/14 22:26	
Bromochloromethane	ug/L	0.50U	1.0	02/04/14 22:26	
Bromodichloromethane	ug/L	0.27U	0.60	02/04/14 22:26	
Bromoform	ug/L	0.50U	1.0	02/04/14 22:26	
Bromomethane	ug/L	0.50U	1.0	02/04/14 22:26	
Carbon disulfide	ug/L	5.0U	10.0	02/04/14 22:26	
Carbon tetrachloride	ug/L	0.50U	1.0	02/04/14 22:26	
Chlorobenzene	ug/L	0.50U	1.0	02/04/14 22:26	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

METHOD BLANK: 822045 Matrix: Water
Associated Lab Samples: 35124336006, 35124336007, 35124336008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	0.50U	1.0	02/04/14 22:26	
Chloroform	ug/L	0.50U	1.0	02/04/14 22:26	
Chloromethane	ug/L	0.62U	1.0	02/04/14 22:26	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	02/04/14 22:26	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	02/04/14 22:26	
Dibromochloromethane	ug/L	0.26U	0.50	02/04/14 22:26	
Dibromomethane	ug/L	0.50U	1.0	02/04/14 22:26	
Dichlorodifluoromethane	ug/L	0.50U	1.0	02/04/14 22:26	
Ethylbenzene	ug/L	0.50U	1.0	02/04/14 22:26	
Hexachloro-1,3-butadiene	ug/L	0.40U	1.0	02/04/14 22:26	
Iodomethane	ug/L	0.50U	1.0	02/04/14 22:26	
Isopropylbenzene (Cumene)	ug/L	0.50U	1.0	02/04/14 22:26	
m&p-Xylene	ug/L	0.50U	1.0	02/04/14 22:26	
Methyl-tert-butyl ether	ug/L	0.50U	1.0	02/04/14 22:26	
Methylene Chloride	ug/L	2.5U	5.0	02/04/14 22:26	
n-Butylbenzene	ug/L	0.50U	1.0	02/04/14 22:26	
n-Propylbenzene	ug/L	0.50U	1.0	02/04/14 22:26	
Naphthalene	ug/L	0.50U	1.0	02/04/14 22:26	
o-Xylene	ug/L	0.50U	1.0	02/04/14 22:26	
p-Isopropyltoluene	ug/L	0.50U	1.0	02/04/14 22:26	
sec-Butylbenzene	ug/L	0.50U	1.0	02/04/14 22:26	
Styrene	ug/L	0.50U	1.0	02/04/14 22:26	
tert-Butylbenzene	ug/L	0.50U	1.0	02/04/14 22:26	
Tetrachloroethene	ug/L	0.50U	1.0	02/04/14 22:26	
Toluene	ug/L	0.50U	1.0	02/04/14 22:26	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	02/04/14 22:26	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	02/04/14 22:26	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	10.0	02/04/14 22:26	
Trichloroethene	ug/L	0.50U	1.0	02/04/14 22:26	
Trichlorofluoromethane	ug/L	0.50U	1.0	02/04/14 22:26	
Vinyl acetate	ug/L	1.0U	2.0	02/04/14 22:26	
Vinyl chloride	ug/L	0.50U	1.0	02/04/14 22:26	
Xylene (Total)	ug/L	0.50U	1.0	02/04/14 22:26	
1,2-Dichloroethane-d4 (S)	%	109	86-125	02/04/14 22:26	
4-Bromofluorobenzene (S)	%	108	70-114	02/04/14 22:26	
Toluene-d8 (S)	%	135	87-113	02/04/14 22:26	S3

LABORATORY CONTROL SAMPLE: 822046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.8	89	70-130	
1,1,1-Trichloroethane	ug/L	20	30.0	150	70-130	J(L0)
1,1,2,2-Tetrachloroethane	ug/L	20	15.6	78	70-130	
1,1,2-Trichloroethane	ug/L	20	17.7	88	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	34.9	175	70-130	J(L0)

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

LABORATORY CONTROL SAMPLE: 822046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	20	29.6	148	70-130	J(L0)
1,1-Dichloroethene	ug/L	20	29.6	148	70-130	J(L0)
1,1-Dichloropropene	ug/L	20	34.3	171	70-130	J(L0)
1,2,3-Trichlorobenzene	ug/L	20	16.9	85	70-137	
1,2,3-Trichloropropane	ug/L	20	14.6	73	70-130	
1,2,3-Trimethylbenzene	ug/L	20	14.0	70	70-135	
1,2,4-Trichlorobenzene	ug/L	20	16.3	81	70-130	
1,2,4-Trimethylbenzene	ug/L	20	16.3	82	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	14.7	73	64-130	
1,2-Dibromoethane (EDB)	ug/L	20	17.6	88	70-130	
1,2-Dichlorobenzene	ug/L	20	15.8	79	70-130	
1,2-Dichloroethane	ug/L	20	30.4	152	70-130	J(L0)
1,2-Dichloroethene (Total)	ug/L	40	58.2	145	70-130	N2
1,2-Dichloropropane	ug/L	20	33.7	169	70-130	J(L0)
1,3,5-Trimethylbenzene	ug/L	20	16.4	82	70-130	
1,3-Dichlorobenzene	ug/L	20	16.5	82	70-130	
1,3-Dichloropropane	ug/L	20	19.7	99	70-130	
1,4-Dichlorobenzene	ug/L	20	16.5	82	70-130	
2,2-Dichloropropane	ug/L	20	30.9	155	70-131	J(L0)
2-Butanone (MEK)	ug/L	40	54.3	136	55-167	
2-Chloroethylvinyl ether	ug/L	40	46.7	117	70-130	
2-Chlorotoluene	ug/L	20	16.6	83	70-130	
2-Hexanone	ug/L	40	30.4	76	65-130	
4-Chlorotoluene	ug/L	20	17.1	85	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	40	32.2	81	70-130	
Acetone	ug/L	40	45.3	113	40-150	
Acetonitrile	ug/L	200	450	225	63-138	J(L0)
Acrolein	ug/L	200	308	154	44-170	
Acrylonitrile	ug/L	200	336	168	70-130	J(L0)
Benzene	ug/L	20	30.5	152	70-130	J(L0)
Bromobenzene	ug/L	20	15.7	78	70-130	
Bromochloromethane	ug/L	20	31.5	157	70-130	J(L0)
Bromodichloromethane	ug/L	20	29.5	147	70-130	J(L0)
Bromoform	ug/L	20	16.8	84	68-130	
Bromomethane	ug/L	20	22.0	110	38-179	
Carbon disulfide	ug/L	20	36.4	182	51-155	J(L0)
Carbon tetrachloride	ug/L	20	29.7	149	70-130	J(L0)
Chlorobenzene	ug/L	20	18.0	90	70-130	
Chloroethane	ug/L	20	27.1	136	59-149	
Chloroform	ug/L	20	30.3	152	70-130	J(L0)
Chloromethane	ug/L	20	30.0	150	68-130	J(L0)
cis-1,2-Dichloroethene	ug/L	20	28.9	144	70-130	J(L0)
cis-1,3-Dichloropropene	ug/L	20	34.3	172	70-130	J(L0)
Dibromochloromethane	ug/L	20	16.6	83	70-130	
Dibromomethane	ug/L	20	31.6	158	70-130	J(L0)
Dichlorodifluoromethane	ug/L	20	36.2	181	67-130	J(L0)
Ethylbenzene	ug/L	20	17.9	89	70-130	
Hexachloro-1,3-butadiene	ug/L	20	16.3	81	70-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

LABORATORY CONTROL SAMPLE: 822046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	40	50.0	125	43-160	
Isopropylbenzene (Cumene)	ug/L	20	19.6	98	70-130	
m&p-Xylene	ug/L	40	33.7	84	70-130	
Methyl-tert-butyl ether	ug/L	20	32.8	164	70-130	J(L0)
Methylene Chloride	ug/L	20	29.3	147	70-130	J(L0)
n-Butylbenzene	ug/L	20	16.2	81	70-130	
n-Propylbenzene	ug/L	20	15.7	78	70-130	
Naphthalene	ug/L	20	16.7	83	70-141	
o-Xylene	ug/L	20	19.0	95	70-130	
p-Isopropyltoluene	ug/L	20	16.8	84	70-130	
sec-Butylbenzene	ug/L	20	17.2	86	70-130	
Styrene	ug/L	20	18.9	95	70-130	
tert-Butylbenzene	ug/L	20	16.8	84	70-130	
Tetrachloroethene	ug/L	20	16.8	84	66-133	
Toluene	ug/L	20	17.8	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	29.3	147	70-130	J(L0)
trans-1,3-Dichloropropene	ug/L	20	20.1	100	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.3	72	65-130	
Trichloroethene	ug/L	20	30.1	150	70-130	J(L0)
Trichlorofluoromethane	ug/L	20	29.8	149	70-131	J(L0)
Vinyl acetate	ug/L	40	65.0	162	69-135	J(L0)
Vinyl chloride	ug/L	20	30.4	152	69-140	J(L0)
Xylene (Total)	ug/L	60	52.7	88	70-130	
1,2-Dichloroethane-d4 (S)	%			100	86-125	
4-Bromofluorobenzene (S)	%			111	70-114	
Toluene-d8 (S)	%			136	87-113	J(S0)

MATRIX SPIKE SAMPLE: 822915

Parameter	Units	35124131002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	20	17.5	88	39-130	
1,1,1-Trichloroethane	ug/L	0.50U	20	32.5	162	47-141	J(M0)
1,1,2,2-Tetrachloroethane	ug/L	0.12U	20	16.3	82	49-131	
1,1,2-Trichloroethane	ug/L	0.50U	20	17.3	86	50-130	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	20	38.5	193	36-187	J(M0)
1,1-Dichloroethane	ug/L	0.50U	20	31.2	156	54-137	J(M0)
1,1-Dichloroethene	ug/L	0.50U	20	33.2	166	45-155	J(M0)
1,1-Dichloropropene	ug/L	0.50U	20	36.4	182	61-141	J(M0)
1,2,3-Trichlorobenzene	ug/L	0.50U	20	19.5	97	36-137	
1,2,3-Trichloropropane	ug/L	0.36U	20	18.1	90	31-132	
1,2,3-Trimethylbenzene	ug/L	1.0U	20	14.1	70	53-148	
1,2,4-Trichlorobenzene	ug/L	0.50U	20	16.6	83	34-138	
1,2,4-Trimethylbenzene	ug/L	0.50U	20	15.9	79	34-138	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	20	16.1	81	37-130	
1,2-Dibromoethane (EDB)	ug/L	0.50U	20	17.3	87	51-132	
1,2-Dichlorobenzene	ug/L	0.50U	20	15.8	79	43-130	
1,2-Dichloroethane	ug/L	0.50U	20	31.4	157	54-130	J(M0)

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

MATRIX SPIKE SAMPLE: 822915

Parameter	Units	35124131002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	0.50U	40	61.9	155	50-150	N2
1,2-Dichloropropane	ug/L	0.50U	20	35.5	178	53-130	J(M0)
1,3,5-Trimethylbenzene	ug/L	0.50U	20	16.0	80	47-139	
1,3-Dichlorobenzene	ug/L	0.50U	20	16.2	81	47-128	
1,3-Dichloropropane	ug/L	0.50U	20	19.4	97	59-127	
1,4-Dichlorobenzene	ug/L	0.50U	20	15.9	80	38-130	
2,2-Dichloropropane	ug/L	0.50U	20	25.0	125	24-133	
2-Butanone (MEK)	ug/L	5.0U	40	54.9	137	48-138	
2-Chloroethylvinyl ether	ug/L	0.50U	40	0.50U	0	20-183	J(M1)
2-Chlorotoluene	ug/L	0.50U	20	16.3	81	54-136	
2-Hexanone	ug/L	5.0U	40	32.4	81	38-130	
4-Chlorotoluene	ug/L	0.50U	20	16.7	83	53-134	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	40	33.8	85	28-143	
Acetone	ug/L	10.0U	40	50.9	108	20-140	
Acetonitrile	ug/L	5.0U	200	433	216	44-138	J(M0)
Acrolein	ug/L	10.0U	200	168	84	20-159	
Acrylonitrile	ug/L	5.0U	200	275	138	46-130	J(M0)
Benzene	ug/L	0.10U	20	31.6	158	53-132	J(M0)
Bromobenzene	ug/L	0.50U	20	15.1	75	53-132	
Bromochloromethane	ug/L	0.50U	20	32.1	161	54-132	J(M0)
Bromodichloromethane	ug/L	0.27U	20	30.7	153	46-130	J(M0)
Bromoform	ug/L	0.50U	20	15.9	79	32-130	
Bromomethane	ug/L	0.50U	20	11.4	57	20-152	
Carbon disulfide	ug/L	5.0U	20	42.1	210	28-184	J(M0)
Carbon tetrachloride	ug/L	0.50U	20	31.4	157	37-137	J(M0)
Chlorobenzene	ug/L	0.50U	20	18.4	91	46-130	
Chloroethane	ug/L	0.50U	20	42.2	211	48-159	J(M1)
Chloroform	ug/L	0.50U	20	32.7	164	51-130	J(M0)
Chloromethane	ug/L	0.62U	20	31.6	158	39-144	J(M0)
cis-1,2-Dichloroethene	ug/L	0.50U	20	30.0	150	54-130	J(M0)
cis-1,3-Dichloropropene	ug/L	0.25U	20	31.5	157	45-130	J(M0)
Dibromochloromethane	ug/L	0.26U	20	16.3	82	43-130	
Dibromomethane	ug/L	0.50U	20	31.9	159	50-130	J(M0)
Dichlorodifluoromethane	ug/L	0.50U	20	42.1	210	38-151	J(M0)
Ethylbenzene	ug/L	0.50U	20	18.5	92	43-130	
Hexachloro-1,3-butadiene	ug/L	0.40U	20	14.7	74	35-136	
Iodomethane	ug/L	0.50U	40	31.4	78	20-169	
Isopropylbenzene (Cumene)	ug/L	0.50U	20	19.9	99	49-140	
m&p-Xylene	ug/L	0.50U	40	34.5	86	40-130	
Methyl-tert-butyl ether	ug/L	2.4	20	36.5	170	20-150	J(M0)
Methylene Chloride	ug/L	2.5U	20	30.3	151	51-135	J(M0)
n-Butylbenzene	ug/L	0.50U	20	15.0	75	41-146	
n-Propylbenzene	ug/L	0.50U	20	15.4	77	49-141	
Naphthalene	ug/L	0.50U	20	20.4	102	20-166	
o-Xylene	ug/L	0.50U	20	19.3	96	45-130	
p-Isopropyltoluene	ug/L	0.50U	20	16.4	82	45-143	
sec-Butylbenzene	ug/L	0.50U	20	16.9	85	48-143	
Styrene	ug/L	0.50U	20	18.2	91	40-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

MATRIX SPIKE SAMPLE: 822915

Parameter	Units	35124131002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	0.50U	20	17.5	88	51-140	
Tetrachloroethene	ug/L	0.50U	20	12.7	63	26-130	
Toluene	ug/L	0.50U	20	18.1	90	50-130	
trans-1,2-Dichloroethene	ug/L	0.50U	20	31.9	159	48-142	J(M0)
trans-1,3-Dichloropropene	ug/L	0.25U	20	17.4	87	45-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	20	10.2	51	20-139	
Trichloroethene	ug/L	0.50U	20	32.6	163	42-133	J(M0)
Trichlorofluoromethane	ug/L	0.50U	20	35.7	179	46-146	J(M0)
Vinyl acetate	ug/L	1.0U	40	56.2	141	20-165	
Vinyl chloride	ug/L	0.50U	20	36.4	182	57-142	J(M0)
Xylene (Total)	ug/L	0.50U	60	53.7	90	42-130	
1,2-Dichloroethane-d4 (S)	%				96	86-125	
4-Bromofluorobenzene (S)	%				112	70-114	
Toluene-d8 (S)	%				135	87-113	J(S0)

SAMPLE DUPLICATE: 822914

Parameter	Units	35124131001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	0.50U		40	
1,1,1-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.12U		40	
1,1,2-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethene	ug/L	0.50U	0.50U		40	
1,1-Dichloropropene	ug/L	0.50U	0.50U		40	
1,2,3-Trichlorobenzene	ug/L	0.50U	0.50U		40	
1,2,3-Trichloropropane	ug/L	0.36U	0.36U		40	
1,2,3-Trimethylbenzene	ug/L	1.0U	1.0U		40	
1,2,4-Trichlorobenzene	ug/L	0.50U	0.50U		40	
1,2,4-Trimethylbenzene	ug/L	0.50U	0.50U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0U	1.0U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50U	0.50U		40	
1,2-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,2-Dichloroethane	ug/L	0.50U	0.50U		40	
1,2-Dichloroethene (Total)	ug/L	0.50U	0.50U		40	N2
1,2-Dichloropropane	ug/L	0.50U	0.50U		40	
1,3,5-Trimethylbenzene	ug/L	0.50U	0.50U		40	
1,3-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,3-Dichloropropane	ug/L	0.50U	0.50U		40	
1,4-Dichlorobenzene	ug/L	0.50U	0.50U		40	
2,2-Dichloropropane	ug/L	0.50U	0.50U		40	
2-Butanone (MEK)	ug/L	5.0U	5.0U		40	
2-Chloroethylvinyl ether	ug/L	0.50U	0.50U		40	
2-Chlorotoluene	ug/L	0.50U	0.50U		40	
2-Hexanone	ug/L	5.0U	5.0U		40	
4-Chlorotoluene	ug/L	0.50U	0.50U		40	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

SAMPLE DUPLICATE: 822914

Parameter	Units	35124131001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	5.0U		40	
Acetone	ug/L	10.0U	10.0U		40	
Acetonitrile	ug/L	5.0U	5.0U		40	
Acrolein	ug/L	10.0U	10.0U		40	
Acrylonitrile	ug/L	5.0U	5.0U		40	
Benzene	ug/L	0.10U	0.10U		40	
Bromobenzene	ug/L	0.50U	0.50U		40	
Bromochloromethane	ug/L	0.50U	0.50U		40	
Bromodichloromethane	ug/L	0.27U	0.27U		40	
Bromoform	ug/L	0.50U	0.50U		40	
Bromomethane	ug/L	0.50U	0.50U		40	
Carbon disulfide	ug/L	5.0U	5.0U		40	
Carbon tetrachloride	ug/L	0.50U	0.50U		40	
Chlorobenzene	ug/L	0.50U	0.50U		40	
Chloroethane	ug/L	0.50U	0.50U		40	
Chloroform	ug/L	0.50U	0.50U		40	
Chloromethane	ug/L	0.62U	0.62U		40	
cis-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
cis-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
Dibromochloromethane	ug/L	0.26U	0.26U		40	
Dibromomethane	ug/L	0.50U	0.50U		40	
Dichlorodifluoromethane	ug/L	0.50U	0.50U		40	
Ethylbenzene	ug/L	0.50U	0.50U		40	
Hexachloro-1,3-butadiene	ug/L	0.40U	0.40U		40	
Iodomethane	ug/L	0.50U	0.50U		40	
Isopropylbenzene (Cumene)	ug/L	0.50U	0.50U		40	
m&p-Xylene	ug/L	0.50U	0.50U		40	
Methyl-tert-butyl ether	ug/L	0.50U	0.50U		40	
Methylene Chloride	ug/L	2.5U	2.5U		40	
n-Butylbenzene	ug/L	0.50U	0.50U		40	
n-Propylbenzene	ug/L	0.50U	0.50U		40	
Naphthalene	ug/L	0.50U	0.50U		40	
o-Xylene	ug/L	0.50U	0.50U		40	
p-Isopropyltoluene	ug/L	0.50U	0.50U		40	
sec-Butylbenzene	ug/L	0.50U	0.50U		40	
Styrene	ug/L	0.50U	0.50U		40	
tert-Butylbenzene	ug/L	0.50U	0.50U		40	
Tetrachloroethene	ug/L	0.50U	0.50U		40	
Toluene	ug/L	0.50U	0.50U		40	
trans-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
trans-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	5.0U		40	
Trichloroethene	ug/L	0.50U	0.50U		40	
Trichlorofluoromethane	ug/L	0.50U	0.50U		40	
Vinyl acetate	ug/L	1.0U	1.0U		40	
Vinyl chloride	ug/L	0.50U	0.50U		40	
Xylene (Total)	ug/L	0.50U	0.50U		40	
1,2-Dichloroethane-d4 (S)	%	114	111	3		

REPORT OF LABORATORY ANALYSIS

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3610 Park Central Blvd N
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954-582-4300

QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

SAMPLE DUPLICATE: 822914

Parameter	Units	35124131001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	110	109	1		
Toluene-d8 (S)	%	138	135	2		S3

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

QC Batch: OEXT/15928 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35124336001, 35124336002, 35124336003, 35124336004, 35124336005, 35124336006, 35124336007

METHOD BLANK: 819474 | Matrix: Water
Associated Lab Samples: 35124336001, 35124336002, 35124336003, 35124336004, 35124336005, 35124336006, 35124336007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	1.0U	2.0	01/31/14 09:24	
2-Methylnaphthalene	ug/L	1.0U	2.0	01/31/14 09:24	
Acenaphthene	ug/L	0.025U	0.10	01/31/14 09:24	
Acenaphthylene	ug/L	0.025U	0.10	01/31/14 09:24	
Anthracene	ug/L	0.025U	0.10	01/31/14 09:24	
Benzo(a)anthracene	ug/L	0.025U	0.10	01/31/14 09:24	
Benzo(a)pyrene	ug/L	0.025U	0.10	01/31/14 09:24	
Benzo(b)fluoranthene	ug/L	0.025U	0.10	01/31/14 09:24	
Benzo(g,h,i)perylene	ug/L	0.025U	0.10	01/31/14 09:24	
Benzo(k)fluoranthene	ug/L	0.025U	0.10	01/31/14 09:24	
Chrysene	ug/L	0.025U	0.10	01/31/14 09:24	
Dibenz(a,h)anthracene	ug/L	0.025U	0.10	01/31/14 09:24	
Fluoranthene	ug/L	0.025U	0.10	01/31/14 09:24	
Fluorene	ug/L	0.025U	0.10	01/31/14 09:24	
Indeno(1,2,3-cd)pyrene	ug/L	0.025U	0.10	01/31/14 09:24	
Naphthalene	ug/L	1.0U	2.0	01/31/14 09:24	
Phenanthrene	ug/L	0.025U	0.10	01/31/14 09:24	
Pyrene	ug/L	0.025U	0.10	01/31/14 09:24	
2-Fluorobiphenyl (S)	%	88	18-110	01/31/14 09:24	
Terphenyl-d14 (S)	%	97	18-123	01/31/14 09:24	

LABORATORY CONTROL SAMPLE: 819475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	4.0	80	21-133	
2-Methylnaphthalene	ug/L	5	3.8	76	21-133	
Acenaphthene	ug/L	5	3.4	69	47-145	
Acenaphthylene	ug/L	5	3.5	70	33-145	
Anthracene	ug/L	5	3.7	73	27-133	
Benzo(a)anthracene	ug/L	5	3.7	74	33-143	
Benzo(a)pyrene	ug/L	5	3.4	67	17-163	
Benzo(b)fluoranthene	ug/L	5	4.2	83	24-159	
Benzo(g,h,i)perylene	ug/L	5	3.0	60	10-219	
Benzo(k)fluoranthene	ug/L	5	3.7	74	11-162	
Chrysene	ug/L	5	4.0	79	17-168	
Dibenz(a,h)anthracene	ug/L	5	3.5	70	10-227	
Fluoranthene	ug/L	5	4.1	81	26-137	
Fluorene	ug/L	5	4.0	80	59-130	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.1	63	10-171	
Naphthalene	ug/L	5	3.4	68	21-133	
Phenanthrene	ug/L	5	3.6	72	54-130	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

LABORATORY CONTROL SAMPLE: 819475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	5	4.0	80	52-130	
2-Fluorobiphenyl (S)	%			82	18-110	
Terphenyl-d14 (S)	%			89	18-123	

MATRIX SPIKE SAMPLE: 819778

Parameter	Units	35124367001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	1.0U	5	3.9	71	21-133	
2-Methylnaphthalene	ug/L	1.0U	5	3.6	72	21-133	
Acenaphthene	ug/L	0.10	5	3.3	64	47-145	
Acenaphthylene	ug/L	0.030 I	5	3.3	66	33-145	
Anthracene	ug/L	0.11	5	3.7	71	27-133	
Benzo(a)anthracene	ug/L	0.025U	5	3.8	75	33-143	
Benzo(a)pyrene	ug/L	0.025U	5	3.4	68	17-163	
Benzo(b)fluoranthene	ug/L	0.025U	5	3.3	67	24-159	
Benzo(g,h,i)perylene	ug/L	0.025U	5	2.8	55	10-219	
Benzo(k)fluoranthene	ug/L	0.025U	5	3.6	72	11-162	
Chrysene	ug/L	0.025U	5	3.7	75	17-168	
Dibenz(a,h)anthracene	ug/L	0.025U	5	3.1	61	10-227	
Fluoranthene	ug/L	0.10	5	4.2	82	26-137	
Fluorene	ug/L	0.070 I	5	3.8	74	59-130	
Indeno(1,2,3-cd)pyrene	ug/L	0.025U	5	3.0	59	10-171	
Naphthalene	ug/L	1.0U	5	3.9	63	21-133	
Phenanthrene	ug/L	0.041 I	5	3.4	68	54-130	
Pyrene	ug/L	0.13	5	4.3	83	52-130	
2-Fluorobiphenyl (S)	%				75	18-110	
Terphenyl-d14 (S)	%				87	18-123	

SAMPLE DUPLICATE: 819779

Parameter	Units	35124336001 Result	Dup Result	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	259	256	1	40	
2-Methylnaphthalene	ug/L	335	329	2	40	
Acenaphthene	ug/L	14.4	14.5	.7	40	
Acenaphthylene	ug/L	27.5	27.6	.1	40	
Anthracene	ug/L	4.6	4.7	3	40	
Benzo(a)anthracene	ug/L	0.16	0.20	23	40	
Benzo(a)pyrene	ug/L	0.025U	0.050 I		40	
Benzo(b)fluoranthene	ug/L	0.027 I	0.046 I		40	
Benzo(g,h,i)perylene	ug/L	0.025U	0.025U		40	
Benzo(k)fluoranthene	ug/L	0.028 I	0.048 I		40	
Chrysene	ug/L	0.18	0.22	24	40	
Dibenz(a,h)anthracene	ug/L	0.025U	0.025U		40	
Fluoranthene	ug/L	2.4	2.7	8	40	
Fluorene	ug/L	21.0	21.4	2	40	

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

SAMPLE DUPLICATE: 819779

Parameter	Units	35124336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	0.025U	0.025U		40	
Naphthalene	ug/L	1480	1460	1	40	
Phenanthrene	ug/L	41.7	43.2	3	40	
Pyrene	ug/L	4.9	5.4	10	40	
2-Fluorobiphenyl (S)	%	78	77	.6		
Terphenyl-d14 (S)	%	92	102	10		

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QUALITY CONTROL DATA

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

QC Batch: OEXT/15929 Analysis Method: FL-PRO
QC Batch Method: EPA 3510 Analysis Description: FL-PRO Water
Associated Lab Samples: 35124336001, 35124336002, 35124336003, 35124336004, 35124336005, 35124336006, 35124336007

METHOD BLANK: 819476 Matrix: Water
Associated Lab Samples: 35124336001, 35124336002, 35124336003, 35124336004, 35124336005, 35124336006, 35124336007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.059U	0.10	01/31/14 10:16	
N-Pentatriacontane (S)	%	121	42-159	01/31/14 10:16	
o-Terphenyl (S)	%	129	82-142	01/31/14 10:16	

LABORATORY CONTROL SAMPLE & LCSD: 819477 819762

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Petroleum Range Organics	mg/L	5	4.6	5.4	93	108	55-118	15	20	
N-Pentatriacontane (S)	%				113	147	42-159			
o-Terphenyl (S)	%				130	144	82-142			J(S0)

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QUALIFIERS

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J(L0)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
J(L2)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
J(S0)	Estimated Value. Surrogate recovery outside laboratory control limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold TNI accreditation for this parameter.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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954-582-4300

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 06-3668-4/Keys Energy
Pace Project No.: 35124336

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35124336001	**PMW-1**	EPA 3510	OEXT/15929	FL-PRO	GCSV/10513
35124336002	**PMW-2**	EPA 3510	OEXT/15929	FL-PRO	GCSV/10513
35124336003	**PMW-3**	EPA 3510	OEXT/15929	FL-PRO	GCSV/10513
35124336004	**PMW-4**	EPA 3510	OEXT/15929	FL-PRO	GCSV/10513
35124336005	**PMW-5**	EPA 3510	OEXT/15929	FL-PRO	GCSV/10513
35124336006	**PMW-6**	EPA 3510	OEXT/15929	FL-PRO	GCSV/10513
35124336007	**PMW-7**	EPA 3510	OEXT/15929	FL-PRO	GCSV/10513
35124336001	**PMW-1**	EPA 3510	OEXT/15928	EPA 8270 by SIM	MSSV/5744
35124336002	**PMW-2**	EPA 3510	OEXT/15928	EPA 8270 by SIM	MSSV/5744
35124336003	**PMW-3**	EPA 3510	OEXT/15928	EPA 8270 by SIM	MSSV/5744
35124336004	**PMW-4**	EPA 3510	OEXT/15928	EPA 8270 by SIM	MSSV/5744
35124336005	**PMW-5**	EPA 3510	OEXT/15928	EPA 8270 by SIM	MSSV/5744
35124336006	**PMW-6**	EPA 3510	OEXT/15928	EPA 8270 by SIM	MSSV/5744
35124336007	**PMW-7**	EPA 3510	OEXT/15928	EPA 8270 by SIM	MSSV/5744
35124336001	**PMW-1**	EPA 8260	MSV/10746		
35124336002	**PMW-2**	EPA 8260	MSV/10746		
35124336003	**PMW-3**	EPA 8260	MSV/10753		
35124336004	**PMW-4**	EPA 8260	MSV/10753		
35124336005	**PMW-5**	EPA 8260	MSV/10753		
35124336006	**PMW-6**	EPA 8260	MSV/10763		
35124336007	**PMW-7**	EPA 8260	MSV/10763		
35124336008	**Trip Blank**	EPA 8260	MSV/10763		

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WO#: 35124336

35124336

CHAIN OF CUSTODY RECORD

LAB W.O #_____ Quote:_____ Page 1 of 1

Company Name: PM Environmental PO#

Address: 2131 Hollywood Blvd, Ste 503

City: Hollywood State: FL Zip: 33020

Attn: Candace Chiffoff Fax#

email: chiffoff@pmenv.com Phone: (954) 924-1801

Project Name: Keys Energy Proj #: CC-3684

Sampler Signature: CCCoff

Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

LAB ANALYSIS

Sample											
TRC											
pH											
Pres Codes											
Parameters	VOCs bag 8260	DRHs bag 8270	TRPHs bag FL-PRO								EXAMPLE Diss. Lead 6010
# of Containers Size/Type											1 16ozP

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	VOCs bag 8260	DRHs bag 8270	TRPHs bag FL-PRO							EXAMPLE Diss. Lead 6010
1	PMCO-1	1/28	955	GW	N		5	✓	✓	✓							
2	PMCO-2		1120					✓	✓	✓							
3	PMCO-3		1240					✓	✓	✓							
4	PMCO-4		1415					✓	✓	✓							
5	PMCO-5	1/29	915					✓	✓	✓							
6	PMCO-6		1040					✓	✓	✓							
7	PMCO-7		1157					✓	✓	✓							
8																	
9																	
10																	

Container Type Codes

AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PL C	Plastic container
AL	Amber Liter	PL J	Plastic Jar
CL	Clear Liter	Z	Ziploc bag
AP	Amber Plastic	TB	Tedlar bag
AG	Amber Glass	WP	Whirl pak
SJ	Soil Jar	G	Gallon Jug
Other_____		TC	Terra-core

PPV Prepreserved vial

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other_____ 40ml 500ml 250ml 125 ml

Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H20	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SW	Surface Water	O	Other_____ (Please specify)
ML	Misc. Liquid		

Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO3	F. MeOH	J. MCAA
C. H2SO4	G. Na2S2O3	K. Zn Acetate
D. NaOH	H. NaHSO4	O. Other

REMARKS

Circle T.A.T. REQUEST (Rush Fees Approved): Standard RUSH — N; Today 1D 2D 3D 4D 5D ___

Short Hold: Y_____ N_____

Circle QA/QC Report Level: 1 2 3 4 CLP AFCEE QAPP Other_____

EDD (Fees May Apply): ADaPT SEDD ERPIMS TSV CSV Other_____

COC Condition: OK Incomplete

Required State Certification: FL GA SC NC NJ PA LA TX IL

Coolers #'s - Temp °C: 1___ 2___ 3___ 4___ 5___

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	CCCoff	PM	1/30/14	920	[illegible]	Pace	1/30/14	9:30
2								
3								
4								

Laboratory Comments	YES	NO	N/A
Non-Conformance Found?			
Samples INTACT upon arrival?			
Received on Wet Ice?			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals Intact?			
Volatiles rec'd without headspace?			
Proper Containers Used?			

C.O.C. Serial # 64528

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: October 9, 2013
	Document No.: F-FL-C-007 rev. 05	Issuing Authorities: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: PM - Environmental Project # 35124338

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Date and Initials of person examining contents: TD 1/30/14

Thermometer Used T-08 Type of Ice: (Wet) Blue None

Cooler Temperature°C 4.1 (Visual) -0.2 (Correction Factor) 4.1 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen? ☐ Yes ☐ No

Receipt of samples satisfactory: ☑ Yes ☐ No Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other: _____