PHASE II ENVIRONMENTAL SITE ASSESSMENT
BELFAST BOATYARD
39 AND 41 FRONT STREET
BELFAST, MAINE

Prepared for:

City of Belfast, Maine
131 Church Street
Belfast, Maine
(Using USEPA Brownfields Funding
Under Belfast's Assessment Grant No. BF96151001-0)

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Project R111.06134.015
August 24, 2012

EXECUTIVE SUMMARY

On behalf of the City of Belfast, the following report presents the findings of a Phase II Environmental Site Assessment (ESA) performed by Ransom Consulting, Inc. (Ransom) for the Belfast Boatyard property located at 39 and 41 Front Street in the City of Belfast, Waldo County, Maine (the "Site"). The Phase II ESA was performed in conjunction with the United States Environmental Protection Agency (US EPA) and the Maine Department of Environmental Protection (MEDEP) and was conducted using US EPA Brownfield funding under the City of Belfast's municipal Brownfields Site Assessment Program (Grant No. BF96151001-0).

The Site is currently improved with two buildings, identified herein, as the Shop Office and the Spar Shed (the "Site buildings"). The Shop Office is currently used as the operating office of Belfast Boatyard, and contains maintenance tools, supplies, and equipment, as necessary for the operation of the boatyard. The Spar Shed building is used for boat maintenance and the storage of boat masts. Waste oil generated by boat maintenance activities is stored in several aboveground storage tanks (ASTs) located in the Spar Shed and is utilized as fuel by a waste oil burner unit located in the Spar Shed building. The Shop Office building has reportedly never been heated. Municipal sewer and water utilities are available at the Site.

Based on available information, the Site has been utilized as a waterfront wharf, since at least 1855. Historic uses include the storage of such commodities as coal, grain, guano, flour, hay, fertilizer, and livestock feed. The existing Site buildings were constructed in the 1980s and 1990s and the Site has been utilized as a boatyard to the present date. Based on information provided by the City of Belfast government officials, the proposed reuse scenario for the Site is to remain a boatyard with similar commercial boat storage, maintenance, and repair operations.

A Phase I ESA, dated July 6, 2012 was completed by Ransom, which identified *Recognized Environmental Conditions (RECs)* associated with the Site's current use as a boatyard facility utilizing hazardous materials, including various paints, solvents, and engine fluids at the Site. Surficial soil staining, indicative of a release of oil and/or hazardous materials (OHM), was observed on certain interior and exterior portions of the property during our reconnaissance. In addition, the historic industrial use of the Site and vicinity including ship building, railroad, bulk fuel storage, and other industries with historic destructible fires, occurring along the waterfront of Belfast throughout the years, were also identified as *RECs*. Three (3) areas of concern (AOCs) throughout the Site were identified for additional environmental investigation.

The objective of the Phase II ESA was to collect sufficient data to confirm or dismiss the *RECs* identified during the Phase I ESA and to determine if OHM associated with these *RECs* have potentially impacted subsurface conditions at the Site. The scope of work included the collection of surficial soil samples, advancement of soil borings, installation of temporary groundwater monitoring wells, installation of temporary soil vapor sample points, and the collection and chemical analysis of soil, groundwater, and soil vapor samples throughout the Site. A Hazardous Materials Inventory (HMI) of suspect hazardous building materials including asbestos, lead-based paint, universal wastes, and other potentially hazardous building materials was also conducted concurrently with our Phase II investigation.

Findings from the Phase II investigation identified that surficial and subsurface soils throughout the Site contain apparent urban fill materials, including wood, metal, brick, and coal. Laboratory analysis of soil samples collected from surficial and subsurface soils including areas of observed urban fill materials indicate that these soils contain low concentrations of volatile organic compounds (VOCs) and volatile

and semi-volatile petroleum products at concentrations that did not exceed their corresponding MEDEP Remedial Action Guidelines (RAGs) or "Remediation Guidelines for Petroleum-Contaminated Sites in Maine" for "Outdoor Commercial Worker" and/or "Excavation/Construction Worker" exposure scenarios. PCBs were not detected above its corresponding laboratory detection limits or the MEDEP RAGs in the surficial or subsurface soil samples submitted for laboratory analysis at the Site. However, these soils exhibited elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) and metals (specifically arsenic and copper) at concentrations that exceed their corresponding MEDEP RAGs for "Outdoor Commercial Worker" and/or "Excavation/Construction Worker" exposure scenarios. The presence of the low contaminant concentrations and urban fill materials may also be associated with former railroad and/or industrial operations at the Site and vicinity and may not only be associated with OHM releases at the Site, during its use as the Belfast Boatyard.

Ransom did not observe evidence of "petroleum-saturated soils" or evidence of "free petroleum product" contamination in groundwater encountered during the soil boring advancements or gauging of temporary groundwater monitoring wells. Laboratory analysis of groundwater samples collected at the Site indicate that groundwater does not contain VOCs, volatile or semi-volatile petroleum constituents, PAHs, or metals at concentrations above their respective laboratory detection limits or Maine Maximum Exposure Guidelines (MEGs) for drinking water, as established by the Maine Center for Disease Control (CDC), with the exception of one VPH fraction (C_9–C_{10} aromatics), which was detected in Site groundwater at a concentration above its laboratory detection limit but below its respective MEG for drinking water. Based on this information, Ransom concludes that boat maintenance/repair activities conducted at the Site, during its use as the Belfast Boatyard, do not appear to have adversely impacted the groundwater quality at the Site and known or potentially unknown contaminated groundwater originating from upgradient properties in the Site vicinity do not appear to have migrated onto the Site at this time.

Soil vapor was determined to contain low level concentrations of VOCs and volatile petroleum compounds at concentrations that do not exceed their applicable soil gas target guidelines for commercial use; however, some VOCs exceed their applicable soil gas target guidelines for residential use. The presence of these contaminants in soil vapor are likely associated with *de minimis* petroleum residues that are incidental to the normal operation of motor vehicles and/or boatyard maintenance/repair activities at the Site and vicinity.

In addition, universal wastes including potential polychlorinated biphenyl (PCB)-containing fluorescent light ballasts, and mercury-containing fluorescent light tubes were identified throughout the Site buildings. Laboratory analysis and field screening procedures did not identify asbestos-containing material (ACM) or lead-based paint (LBP) in connection with the Site buildings.

Based on the findings and information obtained during this Phase II ESA, Ransom recommends the following with respect to the existing environmental conditions at the Site and the proposed Site redevelopment:

1. The Site should be submitted to the MEDEP Voluntary Response Action Program (VRAP). The MEDEP VRAP is a voluntary review program that offers technical review of environmentally-impacted sites and ultimately state liability protections for interested parties including a "No Action Assurance" letter and a "Certificate of Completion" letter (i.e. no further action required), provided that proper and appropriate environmental cleanup or remedial actions are completed, as approved by the MEDEP; and

2. The risk of human exposure to PAH compounds and metals (specifically arsenic and copper) identified in surficial soils at concentrations exceeding their respective MEDEP RAGs and/or background concentrations should be mitigated. As such, Ransom recommends the completion of an Analysis of Brownfields Cleanup Alternatives (ABCA) and Conceptual Remedial Action Plan (RAP) or Focused Feasibility Study (FFS) to evaluate and select the most appropriate cleanup or remedial action(s) for the Site. Soil mitigation measures to prevent the exposure of identified contamination may include engineering controls consisting of the placement of a soil cover system or other direct barrier system (e.g., pavement, concrete, building foundations) to prevent direct dermal contact with the identified contaminated surficial and subsurface soils and/or a deed restriction and institutional controls in the form of a Declaration of Environmental Covenant (DEC) in order to potentially restrict excavation of impacted soils at the Site without proper MEDEP notification/approvals, implementation of a soil management plan, and a health and safety plan.

3. If the Site is to continue operation as a boat yard, certain engineering controls and institutional controls should be implemented to prevent the potential future release(s) of hazardous materials to the environment. Ransom recommends that the property owner evaluate engineered systems or other management controls to prevent the discharge of paint dust containing elevated concentrations of metals to the ground surface at the Site. Furthermore, Ransom recommends that hazardous wastes generated at the Site, including, but not limited to, paint dust, used solvents, waste engine fluids, used batteries, and partially empty paint cans, be collected and properly disposed of, in accordance with local, State, and/or Federal hazardous waste regulations and guidelines. If applicable, the Site should be registered with the US EPA Resource Conservation Recovery Act (RCRA) program and a US EPA Hazardous Waste Identification (I.D.) Number should be obtained for proper management of hazardous wastes.

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1.0 INTRODUCTION

On behalf of the City of Belfast, Ransom Consulting, Inc. (Ransom) is pleased to present this report documenting a Phase II Environmental Site Assessment (ESA) performed at the Belfast Boatyard property located at 39 and 41 Front Street in the City of Belfast, Waldo County, Maine (the "Site"). This Phase II ESA was performed in conjunction with the United States Environmental Protection Agency (US EPA) and the Maine Department of Environmental Protection (MEDEP) and was completed using US EPA Brownfields funding under the City of Belfast's Brownfields Assessment Program (Grant No. BF96151001-0). Furthermore, this investigation was completed in accordance with Ransom's Site-Specific Quality Assurance Project Plan (SSQAPP, Addendum No. 19), dated July 30, 2012. The SSQAPP was reviewed and approved by the MEDEP and the US EPA, prior to implementation of the field activities.

1.1 PURPOSE

A Phase I ESA, dated July 6, 2012 was completed by Ransom, which identified *Recognized Environmental Conditions (RECs)* associated with the Site's current use as a boatyard facility utilizing hazardous materials, including various paints, solvents, and engine fluids at the Site. Surficial soil staining, indicative of a release of oil or hazardous materials (OHM), was observed on certain portions of the property during our reconnaissance. In addition, the historic industrial use of the Site and vicinity including ship building, railroad, bulk fuel storage, and other industries with historic destructible fires occurring along the waterfront of Belfast throughout the years were also identified as *RECs*. Three (3) areas of concern (AOCs) throughout the Site were identified for additional environmental investigation. Based on information provided by the City of Belfast government officials, the proposed reuse scenario for the Site is to remain a boatyard with similar commercial boat storage, maintenance, and repair operations.

The purpose of the Phase II ESA was to evaluate each of the identified AOCs for the potential presence and extent of contaminants of concern (COCs), and to assess the potential risk of exposure to site workers, site visitors, and future site occupants. Furthermore, the objective of the Phase II ESA was to collect sufficient data to confirm or dismiss the *RECs* identified during the Phase I ESA and to determine if oil and/or hazardous materials (OHM) associated with these *RECs* have potentially impacted environmental conditions at the Site.

1.2 SPECIAL TERMS AND CONDITIONS

This Phase II ESA was conducted in accordance with our executed Master Services Agreement with the City of Belfast, dated April 27, 2012. Authorization to perform this Phase II ESA was provided by the City of Belfast.

This report was prepared using US EPA Brownfields funding under the City of Belfast's Brownfields Assessment Grant No. BF96151001-0, and therefore, is a public document. However, the services, findings, and conclusions, noted herein, and associated documents provided to the client by Ransom are solely for the benefit of the City of Belfast, their affiliates and subsidiaries and their successors, assigns, and grantees. Other than for public informational purposes, reliance or any use of this report by anyone other than City of Belfast, for whom it was prepared, is prohibited. Furthermore, reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Ransom's contract with City of Belfast. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

1.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The Phase II Investigation was executed in accordance with the scope of work proposed in the SSQAPP. Any additional revisions to the scope of work or methodologies outlined in the SSQAPP were implemented, based on conditions encountered in the field and are discussed in Section 2.0. Furthermore, the findings provided by Ransom in this report are based solely on the information reported in this document and the results of limited explorations and confirmatory laboratory testing. Our findings and conclusions must be considered as our professional opinion concerning the significance of the limited data gathered during the course of the environmental assessments. Ransom does not and cannot represent that the Site contains no OHM or other adverse environmental conditions beyond that observed by Ransom during the environmental assessments and field investigations. Should additional information become available in the future, this information can be reviewed by Ransom and the findings, presented herein, may be modified as a result of the review.

2.0 BACKGROUND

2.1 SITE DESCRIPTION, HISTORY, AND PHYSICAL SETTING

The Site is known as the Belfast Boatyard located at 39 and 41 Front Street in the City of Belfast, Waldo County, Maine. The Site consists of a rectangular-shaped parcel of land encompassing approximately 0.50 acres located on the southwestern shoreline of the Passagassawakeg River (Belfast Harbor), approximately 400 feet northwest of the intersection of Main Street and Front Street, which is identified by the City of Belfast Assessor's Office as Lot 137 on Tax Map 11. Refer to the appended Figures 1 and 2, Site Location Map and Site Plan, respectively, for the layout of the Site and adjoining properties.

Based on available information, the Site has been utilized as a waterfront wharf, since at least 1855. Historic uses include the storage of such commodities as coal, grain, guano, flour, hay, fertilizer, and livestock feed. According to the current property owner and other historical sources reviewed during this assessment, petroleum products such as gasoline and diesel fuel were not stored on the Site for retail sale.

The Site is currently improved with two buildings, identified herein, as the Shop Office and the Spar Shed (the "Site buildings"). The Shop Office is currently used as the operating office of Belfast Boatyard, and contains maintenance tools, supplies, and equipment, as necessary for the operation of the boatyard. The Spar Shed building is used for boat maintenance and the storage of boat masts. Waste oil generated by boat maintenance activities is stored in several aboveground storage tanks (ASTs) located in the Spar Shed and is utilized as fuel by a waste oil burner unit located in the Spar Shed building. The Shop Office building has reportedly never been heated. Municipal sewer and water utilities are available at the Site.

Boat maintenance/repair activities conducted at the Site involve the use, storage, and disposal of hazardous substances including various paints, solvents, and engine fluids. These items were observed to be stored in a variety of containers located throughout the Site buildings. Staining, indicative of a release(s) of OHM, was observed on certain interior and exterior portions of the Site. Belfast Boatyard reportedly does not maintain a USEPA Hazardous Waste Identification (I.D.) Number for disposal of hazardous wastes generated at the Site. Therefore, it is possible that some of the residual and potentially hazardous wastes that may be generated at the Site including waste paints, solvents, oily rags, etc. are deposited in the on-site dumpster, prior to off-site disposal as solid wastes.

The Site is located in a historically industrial/commercial area of the Belfast waterfront. The Site is bordered to the south by properties historically utilized by the Belfast and Moosehead Lake Rail Road. Historic maps also indicate several former petroleum storage tanks (presumably underground storage tanks [USTs]) located at the intersection of Main Street and Front Street, approximately 250 feet southeast of the Site. Based on the location of the Site, the Site has the potential to be impacted by contaminants currently and/or formerly associated with near-by properties, historic fires, urban fill materials, or other off-site contaminant sources.

2.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

A Phase I ESA was completed by Ransom on July 6, 2012. Both the MEDEP and US EPA have reviewed and approved the Phase I ESA and agree that the recognized environmental conditions listed in the report were appropriate and inclusive based on the data presented. Based on the information obtained during the Phase I ESA, Ransom identified the following *Recognized Environmental Conditions (RECs)* associated with the Site:

1. Current Site activities involve the use, storage, and disposal of hazardous substances including commercial quantities of various paints, solvents, and engine fluids. Belfast Boatyard does not maintain a USEPA Hazardous Waste I.D. for disposal of hazardous wastes. Small quantities of hazardous wastes generated at the Site are likely disposed of as typical household waste in the on-site dumpster;

2. Staining, indicative of releases of oil or hazardous materials, was observed on interior and exterior portions of the Site;

3. Historic Site uses include the storage of potentially hazardous materials including coal and fertilizer. The Site has the potential to have been impacted by these historical Site uses; and

4. The Site is located in a historically industrial/commercial area of the Belfast waterfront. Based on the location of the Site, the Site has the potential to be impacted by contaminants currently and/or formally associated with near-by properties, historic fires, urban fill materials, or other off-site contaminant sources.

Ransom recommended that a Phase II environmental investigation be performed to address the identified *RECs*. In addition to those items and findings discussed above, certain ASTM non-scope considerations were reviewed and identified in connection with the Site buildings that represent potential business environmental risk, including suspect asbestos-containing materials, lead-based paint, polychlorinated biphenyls (PCBs), and/or mercury-containing fluorescent lamps. Ransom recommended that a Hazardous Materials Inventory (HMI) also be conducted as part of the Phase II ESA and prior to potential future building renovation and/or demolition activities that may disturb or impact these potentially hazardous building materials, if present.

2.3 AREAS OF CONCERN

Based on the findings of the Phase I ESA and the identified RECs, three AOCs were identified at the Site and are summarized below.

AOC 1—Shop Office Building and Parking Lot

AOC 1 encompasses the northeastern portion of the Site, which includes the Shop Office Building and gravel/dirt parking areas. The objective for investigating AOC 1 was to assess whether current boatyard facility operations utilizing hazardous materials, including various paints, solvents, and engine fluids have adversely impacted environmental conditions at the Site. Another objective for investigating AOC 1 was to assess if soils at this portion of the Site have been adversely impacted by historic industrial activities at the Site and vicinity, and therefore, may contain urban fill with elevated concentrations of metals and/or other contaminants indicative of wood/coal combustion by-products. Specific COCs associated with this AOC include combustion by-products (ash), volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), polycyclic aromatic hydrocarbons (PAHs), chlorinated volatile organic compounds (VOCs) (i.e., solvents), metals, and PCBs.

It should be noted that metals typically associated with marine paints include the following: iron, titanium, lead, cadmium, chromium, copper, zinc, and aluminum ("Marine Paint Metals"). Several metals are also associated with coal combustion by-products, waste oils, and other engine fluids. Of the metals typically associated with coal combustion by-products, waste oils, engine fluids, and/or marine paints; the metals arsenic, cadmium, copper, and lead have the potential to represent an exposure risk due to their relatively high toxicity characteristics. Other metals associated with coal combustion byproducts, waste oils, engine fluids, and/or marine paints were not anticipated to represent an exposure risk due to their relatively low toxicity characteristics.

AOC 2—Spar Shed

AOC 2 encompasses the footprint and vicinity of the Spar Shed building on the western portion of the Site property, including the trash dumpster area. The objective for investigating AOC 2 was to assess whether the current operations conducted at the Spar Shed utilizing various paints, stains, thinners, solvents, cleansers, and large quantities of used motor oil, which is used as a fuel source for a waste oil burner unit that provides heat for the building have adversely impacted environmental conditions at the Site. During our reconnaissance, staining, indicative of releases of OHM, was observed on interior and exterior portions of the Spar Shed building and OHM may have been released to the environment by waste disposal activities at the trash dumpster area adjacent to the Spar Shed building. Specific COCs associated with this AOC include combustion by-products (ash), volatile and semi-volatile petroleum products, PAHs, chlorinated VOCs (i.e., solvents), PCBs, and metals (specifically arsenic, cadmium, copper, and lead).

AOC 3— Southern Property Boundary and Off-Site Sources

AOC 3 consists of the southern border of the Site property, which is located along a right-of-way formerly occupied by the Belfast and Moosehead Lake Railroad. The objective for investigating AOC 3 was to characterize potential unreported and/or unknown releases of OHM, including urban fill containing elevated concentrations of metals and PAHs, which are often associated with railroad operations. In addition, properties to the southwest and southeast of the Site were identified as historic bulk fuel facilities, which may have adversely impacted environmental conditions at the Site with petroleum constituents. Specific COCs associated with this AOC include combustion by-products (ash), volatile and semi-volatile petroleum products, PAHs, and metals (specifically arsenic and lead).

Hazardous Building Materials

Based on the age of the Site buildings (circa 1983 to 1998), it is possible that asbestos-containing building materials (ACM), lead-based paint (LBP), PCB-containing light ballasts, and mercury-containing fluorescent lamps may be present in the buildings. Universal wastes, such as mercury-containing switches and fluorescent light bulbs, as well as, potential PCB-containing light ballasts were also observed in the buildings.

Identification of potentially hazardous building materials will be necessary prior to potential future Site building remodeling and/or demolition activities in order to protect worker safety and to maintain compliance with applicable storage and/or disposal regulatory criteria.

3.0 INVESTIGATION METHODOLOGY

The Phase II Investigation was designed to collect sufficient data to confirm or dismiss the potential presence of OHM and COCs at the Site due to its current use as a boatyard facility utilizing hazardous materials, including various paints, solvents, and engine fluids at the Site. In addition, the historic industrial use of the Site and vicinity including ship building, railroad, bulk fuel storage, and other industries with historic destructible fires occurring along the waterfront of Belfast throughout the years may have adversely impacted environmental conditions at the Site. Field activities were conducted by Ransom in conjunction with the MEDEP on August 3, 2012, and are summarized in the following sections. As previously noted, three (3) AOCs were identified throughout the Site, as described in Section 2.3 above and further detailed in the SSQAPP. Specific COCs associated with the AOCs include combustion by-products (ash), volatile and semi-volatile petroleum products, PAHs, chlorinated volatile organic compounds (VOCs) (i.e., solvents), PCBs, and metals (specifically arsenic, cadmium, copper, and lead).

The scope of work for the Phase II ESA included the collection of surficial soil samples, advancement of soil borings, installation of temporary groundwater monitoring wells, installation of temporary soil vapor sample points, and the collection and chemical analysis of soil, groundwater, and soil vapor samples. Soil boring, monitoring well, and soil vapor point locations are shown on Figure 2.

3.1 SURFICIAL SOIL SAMPLING

On August 3, 2012, Ransom collected five surficial soil samples, identified as SS101 through SS105, utilizing hand tools (i.e., hand augers, trowels, shovels, and/or pick axes). The surficial soil samples were collected at depths ranging from the ground surface to 2 feet below ground surface (bgs). Surficial soil samples were visually classified in the field by Ransom in general accordance with the Burmister Soil Classification System.

3.2 SOIL BORING ADVANCEMENT

On August 3, 2012, Ransom observed the advancement of four soil borings, identified as B101 through B104 by Environmental Projects Inc. (EPI) of Auburn, Maine. The soil borings were advanced utilizing direct-push (i.e., GeoProbe®) drilling techniques. At each soil boring location, 4-foot macrocore soil samples were collected continuously from surface grade to the termination of each boring. The borings were advanced to depths ranging from 11.2 to 16 feet bgs.

Soil samples collected during the advancement of the soil borings were visually classified in the field by Ransom in general accordance with the Burmister Soil Classification System. Surficial soil samples (approximately zero to two feet bgs) were separated from subsurface soil samples (greater than two feet bgs) were collected from each AOC in order to evaluate exposure risks to site workers, site visitors, and future site occupants.

3.3 QUALITATIVE FIELD SCREENING

Soil samples collected during the advancement of the soil borings and surficial soil sampling were screened in the field for the presence of total organic volatile compounds (TVOCs) using a photoionization detector (PID) equipped with a 10.6 eV lamp and calibrated to an isobutylene standard. Soil samples were also screened for metals using an X-ray Fluorescence meter (XRF).

Samples were collected for laboratory analysis from the locations and depths based on observations in the field (visual or olfactory evidence of contamination) and/or proximity to the ground water table. Sample intervals, sample recovery, and organic vapor concentrations (as determined by field screening) are included on the soil boring logs provided as Appendix A. Field screening results for concentrations of metals in soil are included in Table 1.

3.4 SOIL SAMPLING AND ANALYTICAL TESTING

Soil samples were submitted for chemical analysis for a combination of parameters based on the nature of the suspected contaminant source as outlined in the AOCs described in Section 1.6. Soil samples collected from each soil boring and surficial soil sample were submitted to Analytics Environmental Laboratory, LLC (Analytics) of Portsmouth, New Hampshire, for chemical analysis. Soil samples were collected directly from the sampling equipment and transferred into laboratory-prepared glassware. The samples were preserved in the field in accordance with applicable protocols and delivered on ice under chain-of-custody protocol for laboratory analysis.

Additionally, a duplicate soil sample was collected from surficial soil sample SS101 and submitted for laboratory analysis for quality assurance/quality control (QA/QC) protocols as outlined in the SSQAPP.

3.5 TEMPORARY GROUNDWATER MONITORING WELL INSTALLATION

On August 3, 2012, soil borings B101 through B104 were completed as temporary groundwater monitoring wells (MW101 through MW104, respectively). During advancement of these soil borings, groundwater was measured at depths ranging from approximately 6 to 7 feet bgs. Each monitoring well was constructed using 1-inch-diameter Schedule 40 PVC well casing and factory-slotted screen. Monitoring well MW101 was screened from 6.2 to 11.2 feet bgs and monitoring wells MW102 through MW104 were screened from 6 to 16 feet bgs. The temporary monitoring wells were removed from the Site upon the completion of groundwater sampling activities. Well construction details can be found on the boring logs provided as Appendix A.

3.6 GROUNDWATER SAMPLING AND ANALYTICAL TESTING

On August 3, 2012, groundwater samples were collected from the four temporary monitoring wells (MW101 through MW104). Groundwater samples were submitted for chemical analysis for a combination of parameters, based on the nature of the suspected contaminant source as outlined in the AOCs described in Section 1.6.

Prior to sample collection, each well was developed using a peristaltic pump and dedicated tubing. Approximately four well volumes were purged in an effort to remove silt and fines and to restore the natural permeability of the soils surrounding the well screens. During the course of well development, no evidence of light non-aqueous phase liquid (LNAPL) was observed. When purging was complete, the monitoring wells were sampled in accordance with EPA-established low-flow sampling methods and guidelines, using a peristaltic pump.

Additionally, a duplicate groundwater sample was collected from monitoring well MW104 and submitted for laboratory analysis for quality assurance/quality control (QA/QC) protocols as outlined in the SSQAPP.

The groundwater samples were collected directly from the sampling equipment and transferred into laboratory-prepared glassware or plastic containers. The samples were preserved in the field in accordance with applicable protocols and delivered on ice under chain-of-custody protocol to Analytics for laboratory analysis.

3.7 TEMPORARY SOIL VAPOR POINT INSTALLATION

On August 3, 2012, Ransom attempted to install two temporary soil vapor points (SV101 and SV102) inside the Shop Office Building and Spar Shed, respectively; however, soil vapor samples could not be collected from these sample points, due to the elevated groundwater table and/or saturated subsurface soils at these locations at the time of the soil vapor point installations. With consultation from the MEDEP, Ransom installed one temporary soil vapor point (SV101) within the crushed-gravel parking lot to the south of the Shop Office Building in order to assess soil vapor at the Site, which was a deviation from our SSQAPP sampling plan.

The soil vapor point was installed utilizing a stainless steel sampling probe, which was advanced utilizing direct-push (i.e., GeoProbe®) drilling techniques. The soil vapor point was screened from 3 to 4 feet bgs and a bentonite seal was placed around the soil vapor point at the ground surface in order to prevent the influx of ambient air during sample collection.

3.8 SOIL VAPOR SAMPLING AND ANALYTICAL TESTING

Prior to sampling, disposable Teflon® tubing was inserted into the soil vapor sample point and the sampling point was purged for approximately 5 minutes using a peristaltic pump at a flow rate of 0.5 liter/minute to ensure at least one well volume of vapor was purged prior to sampling. Soil vapor parameters, including carbon dioxide and oxygen concentrations were not monitored during soil vapor sample collection due to a malfunctioning multi-gas meter. After purging, a soil vapor sample was collected in accordance with MEDEP standard operating procedures using laboratory-prepared SUMMA® passivated stainless steel canister with a 100 milliliters per minute flow control valve. The sample was submitted to Alpha Analytical, Inc. (Alpha) of Mansfield, Massachusetts and analyzed for VOCs by U.S. EPA Method TO-15 and Air Petroleum Hydrocarbons (APH). A soil gas sampling field data sheet providing additional information regarding the soil vapor sample is included in Appendix B.

Additionally, a duplicate soil vapor sample was collected from soil vapor sample point SV101 and submitted for laboratory analysis for quality assurance/quality control (QA/QC) protocols as outlined in the SSQAPP.

3.9 BACKGROUND SAMPLES

In order to compare site-specific results for metals, EPH, and PAHs with background environmental conditions in the vicinity of the Site, three surficial soil samples (zero to two feet bgs) were collected from crushed-gravel parking areas at the City of Belfast-owned property located to the southwest of the Site, which was presumed to be unaffected by the Site operations. These background soil samples (designated as BK-1, BK-2, and BK-3) were collected with hand tools (i.e., hand augers, trowels, shovels and/or pick axes) concurrent with the site-specific investigation on August 3, 2012. The background soil sample locations are shown on Figure 2.

The background soil samples were visually classified in the field by Ransom in general accordance with the Burmister Soil Classification System and field-screened for the presence of TVOCs using a PID and for the presence of lead using an XRF. The background soil samples were collected directly from the sampling equipment and transferred into laboratory-prepared glassware. The samples were preserved in the field in accordance with applicable protocols and delivered on ice under chain-of-custody protocol to Analytics for laboratory analysis of EPH, PAHs, and metals (specifically arsenic, cadmium, copper, and lead).

3.10 AOC 1– SHOP OFFICE BUILDING & PARKING LOT

AOC 1 encompasses the northeastern portion of the Site, which includes the Shop Office Building and gravel/dirt parking areas. The characteristics and history of AOC 1 are described in Section 2.3. In an effort to evaluate AOC 1 with respect to the identified COCs, two surficial soil samples (SS101 and SS102), one soil boring (B101), one temporary monitoring well (MW101), and one temporary soil vapor point (SV101) were completed in areas surrounding the Shop Office Building.

Based on field screening results and observations, surficial soil samples collected from SS101, SS102, and B101 and a groundwater sample collected from MW101 were submitted for laboratory analysis including VOCs, VPH, EPH, PAHs, PCBs, and metals (specifically arsenic, cadmium, copper, and lead). A soil vapor sample was collected from SV101 and submitted for laboratory analysis of VOCs and APH. A duplicate soil sample (SS10X) was collected from surficial soil sample SS101 and a duplicate soil vapor sample (SVDUP) was collected from soil vapor point (SV101) and submitted for laboratory analysis for quality assurance/quality control (QA/QC) protocols, as outlined in the SSQAPP.

3.11 AOC 2– SPAR SHED

AOC 2 encompasses the footprint and vicinity of the Spar Shed building on the western portion of the Site property, including the trash dumpster area. Contaminant sources and exposure pathways associated with AOC 2 are described in Section 2.3. In an effort to evaluate AOC 2 with respect to the identified COCs, two surficial soil samples (SS103 and SS104), one soil boring (B102), and one temporary monitoring well (MW102) were completed in areas surrounding the Spar Shed.

Based on field screening results and observations, surficial soil samples collected from SS103 and SS104, a subsurface soil sample collected from boring B102, and a groundwater sample collected from MW102 were submitted for laboratory analysis including VOCs, VPH, EPH, PAHs, PCBs, and metals (specifically arsenic, cadmium, copper, and lead).

3.12 AOC 3– SOUTHERN PROPERTY BOUNDARY & OFF-SITE SOURCES

AOC 3 consists of the southern border of the Site property, which is located along a right-of-way formerly occupied by the Belfast and Moosehead Lake Railroad. Contaminant sources and exposure pathways associated with AOC 3 are described in Section 2.3. In an effort to evaluate AOC 3 with respect to the identified COCs, one surficial soil sample (SS105), two soil borings (B103 and B104), and two temporary monitoring wells (MW103 and MW104) were completed along the southern property boundary. Based on field screening results and observations, surficial soil samples collected from SS105 and boring B103, a subsurface soil sample collected from boring B104, and groundwater samples collected from MW103 and MW104 were submitted for laboratory analysis including VOCs, VPH, EPH, PAHs, and metals (specifically arsenic and lead).

3.13 HAZARDOUS BUILDING MATERIALS

As previously discussed, it is possible that ACBM, LBP, PCB-containing light ballasts, and mercury-containing fluorescent lamps are present in the Site buildings. Universal wastes, such as mercury-containing switches and fluorescent light bulbs, as well as, potential PCB-containing light ballasts were also observed in the buildings. In an effort to evaluate the potential for these hazardous building materials with respect to the identified COCs, Ransom conducted a Hazardous Materials Inventory (HMI) concurrent with our Phase II ESA investigation. Results of the HMI are also summarized in Section 4.0 and are detailed in the full HMI report provided as Appendix D.

4.0 RESULTS

The following subsections document the results of the Phase II ESA activities. Soil sample analytical results are summarized in Table 2. Groundwater sample analytical results are summarized in Table 3. Soil vapor sample analytical results are summarized in Table 4. Copies of the laboratory chemical analysis data reports are provided as Appendix C.

Analytical results were compared to both background analyte concentrations and risk-based guidelines presented in the SSQAPP. The risk-based guidelines include the following:

- Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances;
- Remediation Guidelines for Petroleum Contaminated Sites in Maine;
- Maine Center for Disease Control (MCDC) Maximum Exposure Guidelines (MEGs) for Drinking Water;
- MEDEP Bureau of Remediation Vapor Intrusion Evaluation Guidance; and
- USEPA Region 9 Regional Screening Levels (RSLs) for Soil.

Soil

The analytical results of soil samples collected at the Site were compared to the MEDEP Bureau of Remediation and Waste Management's "*Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances*", dated January 6, 2010; and MEDEP's "*Remediation Guidelines for Petroleum Contaminated Sites in Maine*," dated November 20, 2009. For comparison purposes, the "DRAFT *RAGs for Sites Contaminated with Hazardous Substances*," dated January 11, 2012, have also been included in Table 2. Since the Site is proposed to be reused as a boatyard, the "Outdoor Commercial Worker" scenario appears to be the most applicable guidance standard. Additionally, subsurface utilities exist at the Site, and therefore, "Excavation/Construction Worker" scenarios also apply to areas at the Site in the vicinity of subsurface utilities in order to evaluate potentially unacceptable risks to excavation/construction workers during future utility work at the Site.

In cases where MEDEP RAGs have not been promulgated, Ransom compared contaminant concentrations to their respective USEPA Region 9 RSLs, dated May 2012. The USEPA Region 9 RSLs do not represent values requiring remedial action within the State of Maine.

Groundwater

Since public water is available to the Site and vicinity and the Site meets the criteria of an "Urban Groundwater Non-Attainment Area," as defined by MEDEP's "*Remediation Guidelines for Petroleum Contaminated Sites in Maine,"* dated December 1, 2009, groundwater contamination at the Site requiring remediation is limited to "free petroleum product," which is identified as the following:

> *"Free petroleum product contamination, the light non-aqueous phase liquid (LNAPL) oil or petroleum found on the groundwater table, should be removed or remediated at all locations where found to the Department's (MEDEP's) satisfaction. This represents the Department's historic baseline remediation guideline to prevent or mitigate fire and explosion threats in buildings, underground utilities and during construction; indoor air pollution; petroleum exposure to outdoor workers; and threats to Maine's surface water bodies."*

Ransom utilized MEDEP's "*Remediation Guidelines for Petroleum Contaminated Sites in Maine*," dated November 20, 2009, which includes the Maine Department of Human Services (DHS), Maine Center for Disease Control (CDC), Maximum Exposure Guidelines (MEGs) to compare analytical results of groundwater samples collected at the Site in order to assess potential costs for managing contaminated groundwater and potentially unacceptable risks to site construction workers during potential future utility work at the Site.

Soil Vapor

The soil vapor samples collected at the Site were compared to guidelines contained in the MEDEP document titled "*Vapor Intrusion Evaluation Guidance*," dated January 14, 2010 and "DRAFT *RAGs for Sites Contaminated with Hazardous Substances*," dated January 11, 2012. MEDEP provides concentrations of various soil gas target volatile contaminants, which if exceeded in soil vapor samples, suggest that indoor air impacts are possible and describes additional procedures to evaluate potential vapor intrusion and risks to current and/or future building occupants at the Site and vicinity.

Since the Site is currently utilized for commercial use and is proposed to remain commercial, Ransom calculated applicable Soil Gas Target concentrations for commercial use by multiplying (10x to 50x) the applicable Indoor Air Targets by their respective attenuation factors outlined in the "DRAFT *RAGs for Sites Contaminated with Hazardous Substances*," dated January 11, 2012, and the "*Vapor Intrusion Evaluation Guidance*" dated January 14, 2010.

4.1 GEOLOGY AND HYDROGEOLOGY

In general, soils encountered during the Phase II Investigation were relatively consistent throughout the Site. Surficial and subsurface soil samples contained fill, which consisted of brown to dark brown and black, fine to coarse sand with varying amounts of clay, silt, and gravel. Apparent urban fill materials, including wood, metal, brick, and coal were encountered in surficial and subsurface fill soils at the Site. Groundwater was encountered in the soil borings at approximate depths ranging from 6 to 7 feet bgs. Probe refusal (presumed fill material) was encountered approximately 11.2 feet bgs during the advancement of soil boring B101; however, refusal conditions were not encountered in the other soil borings at the Site, which were each advanced to an approximate depth of 16 feet bgs.

Organic vapors were not detected in any of the soil samples collected from surficial soil samples or soil borings at concentrations greater than 1 part per million by volume (ppmv), the practical detection limit of the PID. Additionally, no evidence of "petroleum-saturated soils" or evidence of "free petroleum product" contamination was observed in groundwater encountered during the soil boring advancements or gauging of temporary groundwater monitoring wells.

Concurrent with the Phase II investigation, a relative groundwater elevation survey was conducted in order to evaluate the local groundwater flow direction at the Site. Groundwater was measured at depths ranging from 7.47 to 9.10 feet below the top of the well riser pipe in the monitoring wells. Coupled with depth to groundwater data, relative groundwater elevations were calculated as shown in the following table. The data indicates a hydraulic gradient and associated interpreted groundwater flow direction to the north towards Belfast Bay. Please note that groundwater flow direction at the Site may also be influenced by tidal gradients of Belfast Bay, underground utilities, heterogeneous subsurface soil strata, and/or other subsurface structures at the Site, which may act as preferred pathways of flow.

Please refer to Figure 3 for groundwater elevation contours and calculated groundwater flow direction.

RESULTS OF GROUNDWATER ELEVATION SURVEY

Well	Depth to Groundwater (feet bgs)	Relative Ground Elevation	Relative Groundwater Elevation
MW101	6.99	98.66	91.67
MW102	6.69	98.47	91.78
MW103	6.03	98.27	92.24
MW104	6.84	99.51	92.67

Notes:

1. Relative groundwater elevation survey and groundwater measurements conducted by Ransom on August 3, 2012.
2. Elevations are relative to arbitrary benchmark (base of utility pole near Spar Shed) with an assigned elevation of 100.00 feet.

4.2 BACKGROUND DATA

The following is a summary of laboratory analytical results of the three background surficial soil samples (BK-1 through BK-3) collected during this investigation. Soil sample analytical results are summarized in Table 2. A copy of the laboratory chemical analysis data report is provided as Appendix C.

Metals

As shown in Table 2, laboratory chemical analysis of the surficial (zero to two feet bgs) background soil samples (BK-1, BK-2, and BK-3) indicate that background concentrations of arsenic in soils at the Site exceed its corresponding MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. Arsenic was detected at concentrations ranging from 6.2 to 12 mg/kg in the background soil samples. Elevated levels of naturally occurring arsenic are common in Maine soils. For the purposes of this Phase II Investigation, arsenic concentrations in soil samples collected at the Site are considered elevated if they exceed a site-specific background concentration of approximately 12 mg/kg. Additionally, cadmium, copper, and lead were also detected in

one or more of the background soil samples; however, the concentrations of these metals were below their corresponding MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios.

Extractable Petroleum Hydrocarbons & Target Polycyclic Aromatic Hydrocarbons

As shown in Table 2, laboratory chemical analysis of the surficial (zero to two feet bgs) background soil sample (BK-1) indicate that the following target PAHs: anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were detected at concentrations ranging from 0.314 to 2.48 mg/kg. Additionally, the following EPH fractions, C_{19}–C_{36} aliphatics and C_{11}–C_{22} aromatics were detected at concentrations of 39.8 and 43.4 mg/kg, respectively, in the surficial background soil sample (BK-1). These target PAH and EPH compounds are presumed to be characteristic of urban fill material. For the purposes of this Phase II Investigation, target PAH and EPH concentrations in shallow soil samples collected at the Site are considered elevated if they exceed the site-specific background concentrations.

4.3 AOC 1– SHOP OFFICE BUILDING & PARKING LOT

Soil Sample Analytical Results

Volatile Organic Compounds

As shown in Table 2, VOCs were not detected in the surficial soil samples collected from B101, SS101, and SS102 at concentrations above their respective laboratory detection limits.

Volatile Petroleum Hydrocarbons

VPH fractions were not detected at concentrations above their respective laboratory detection limits in the surficial soil samples collected from B101 or SS101. One VPH fraction (C_9–C_{10} aromatics) was detected in the surficial soil sample collected from SS102 at a concentration of 0.774 mg/kg; however, the concentration of this VPH fraction was below its respective MEDEP Remediation Guidelines for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. No other VPH fractions were detected at concentrations above their respective laboratory detection limits in the surficial soil sample collected from SS102.

Extractable Petroleum Hydrocarbons

C_9–C_{18} aliphatics were not detected at concentrations above their respective laboratory detection limits in the surficial soil samples collected from B101, SS101, or SS102; however, two EPH fractions (C_{19}–C_{36} aliphatics and C_{11}–C_{22} aromatics) were detected in the surficial soil samples collected from B101, SS101, and SS102 at concentrations ranging from 8.26 to 194 mg/kg, which exceeded their background concentrations, but did not exceed their MEDEP Remediation Guidelines for "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios.

Target Polycyclic Aromatic Hydrocarbons

Target PAHs were not detected in the surficial soil sample collected from boring B101 at concentrations above their respective laboratory detection limits. One or more of the following PAHs: anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were detected at concentrations ranging from 0.139 to 1.28 mg/kg in the surficial soil samples collected from SS101 and SS102.

The concentration of benzo(a)pyrene detected in the surficial soil sample collected from SS102 (0.912 mg/kg) did not exceed its respective background concentration (1.41 mg/kg), but did exceed its MEDEP RAG for "Outdoor Commercial Worker" exposure scenario (0.35 mg/kg). No other PAHs detected in the soil samples collected from SS101 or SS102 exceeded their respective MEDEP RAG for "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios.

Metals

Arsenic was detected in the surficial soil samples collected from B101, SS101, and SS102 at concentrations ranging from 13 to 16 mg/kg, which exceed its MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. However, only the concentration of arsenic detected in the soil sample from B101 (16 mg/kg) exceeded the Site's corresponding highest background concentration for arsenic (12 mg/kg).

Copper was detected in the surficial soil samples collected from B101, SS101, and SS102 at concentrations of 221, 296, and 3,780 mg/kg, respectively, which exceeded its highest background concentration (35 mg/kg). The concentration of copper detected in SS102 (3,780 mg/kg) also exceeded its MEDEP RAG for "Excavation/Construction Worker" exposure scenario (870 mg/kg), but did not exceed its MEDEP RAG for "Outdoor Commercial Worker" exposure scenario (4,800 mg/kg).

Additionally, cadmium and lead were also detected in one or more of the surficial soil samples collected from B101, SS101, and SS102; however, the concentrations of these metals were below their corresponding background concentrations and/or MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios.

Polychlorinated Biphenyls

As shown in Table 2, PCBs were not detected in the surficial soil samples collected from B101, SS101, or SS102 at concentrations above their laboratory detection limits.

Groundwater Sample Analytical Results

As shown in Table 3, VOCs, VPH fractions, EPH fractions, target PAHs, and metals (specifically arsenic, cadmium, copper, and lead) were not detected at concentrations above their laboratory detection limits in the groundwater sample collected from monitoring well MW101.

Soil Vapor Sample Analytical Results

Volatile Organic Compounds

As shown in Table 4, the following VOCs: benzene, bromodichloromethane, 1,3-butadiene, chloroethane, chloroform, dibromochloromethane, ethylbenzene, methyl tert-butyl ether (MTBE), tetrachloroethene (PCE), toluene, trichlorofluoromethane, and xylenes (total) were detected in the soil vapor sample collected from SV101 at concentrations ranging from 0.723 to 36.3 micrograms per cubic meter ($\mu g/m^3$). These concentrations do not exceed their applicable soil gas target guidelines for commercial use, however, some exceed their applicable soil gas target guidelines for residential use. No other VOCs were detected in the soil vapor sample collected from SV101 at concentrations above their respective laboratory detection limits.

Air Petroleum Hydrocarbons

As shown in Table 4, the following APH compounds: C_5–C_8 aliphatics and C_9–C_{12} aliphatics were detected in the soil vapor sample collected from SV101 at concentrations of 610 and 150 $\mu g/m^3$, respectively; however, these concentrations do not exceed their applicable soil gas target guidelines for commercial or residential use. C_9–C_{10} aromatics were not detected in the soil vapor sample collected from SV101 at a concentration above the respective laboratory detection limit.

Discussion of Key AOC 1 Findings

Based on the laboratory analytical results and Ransom's observations during the Phase II ESA program, including XRF and PID field screening activities, VOCs, volatile and semi-volatile petroleum constituents do not appear to have adversely impacted surficial soils in AOC 1 at this time. Low level concentrations of PAHs detected in surficial soil samples at AOC 1, which do not exceed their respective MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios suggests that surficial soils at the Site contain urban fill, likely associated with former railroad and/or industrial operations at the Site and vicinity. The presence of these contaminants in surficial soils are representative of background conditions and may not be entirely associated with OHM releases at the Site.

Arsenic was detected in each soil sample collected from AOC 1 at concentrations exceeding its respective MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. These concentrations are not significantly elevated in comparison to the background concentrations for this metal, and are anticipated to represent naturally occurring concentrations. Copper was detected in one surficial soil sample collected from AOC 1 at a concentration exceeding its MEDEP RAG for "Outdoor Commercial Worker" and background concentrations, and is likely associated with marine paint removal activities at the Site; therefore, it is anticipated that copper is present in surficial soils at AOC 1 at concentrations that pose a potential exposure risk. Lead and cadmium were detected at concentrations representative of background conditions in surficial soils at AOC 1. PCBs were not detected in the surficial soil samples at AOC 1.

Groundwater at AOC 1 does not appear to be adversely impacted with VOCs, volatile or semi-volatile petroleum constituents, PAHs, or metals at this time.

Soil vapor appears to contain low level concentrations of VOCs and volatile petroleum compounds at concentrations that do not exceed their applicable soil gas target guidelines for commercial use; however, some VOCs exceed their applicable soil gas target guidelines for residential use. The presence of these contaminants in soil vapor are likely associated with *de minimis* petroleum residues that are incidental to the normal operation of motor vehicles and/or boatyard maintenance activities at the Site and vicinity.

4.4 AOC 2– SPAR SHED

Soil Sample Analytical Results

Volatile Organic Compounds

As shown in Table 2, VOCs were not detected in the surficial soil sample collected from SS104 at concentrations above their respective laboratory detection limits. Two VOCs, PCE and trichloroethene (TCE), were detected at concentrations of 0.283 to 0.165 mg/kg, respectively, in the subsurface soil sample collected from boring B102; however, the concentrations of these VOCs were below their respective MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. No other VOCs were detected at concentrations above their respective laboratory detection limits in the subsurface soil sample collected from B102.

One VOC (styrene) was detected in the surficial soil sample collected from SS103 at a concentration of 0.071 mg/kg, which did not exceed its respective MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. No other VOCs were detected at concentrations above their respective laboratory detection limits in the subsurface soil sample collected from boring B102 or the surficial soil sample collected from SS103.

Volatile Petroleum Hydrocarbons

VPH fractions were not detected at concentrations above their respective laboratory detection limits in the surficial soil sample collected from SS104. One VPH fraction (C_9–C_{10} aromatics) was detected in the subsurface soil sample collected from boring B102 and the surficial soil sample collected from SS103 at concentrations of 1.28 and 0.575 mg/kg, respectively; however, these VPH concentrations were below their respective MEDEP Remediation Guidelines for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. No other VPH fractions were detected at concentrations above their respective laboratory detection limits in the subsurface soil sample collected from boring B102 or the surficial soil sample collected from SS103.

Extractable Petroleum Hydrocarbons

C_9–C_{18} aliphatics were not detected at concentrations above their respective laboratory detection limits in the subsurface soil sample collected from boring B102 or the surficial soil samples collected from SS103 and SS104; however, two EPH fractions (C_{19}–C_{36} aliphatics and C_{11}–C_{22} aromatics) were detected in the subsurface soil sample collected from boring B102 and the surficial soil samples collected from SS103 and SS104 at concentrations ranging from 8.98 to 109 mg/kg, which exceeded their background concentrations, but did not exceed their MEDEP

Remediation Guidelines for "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios.

Target Polycyclic Aromatic Hydrocarbons

Target PAHs were not detected in the surficial soil sample collected from SS104 at concentrations above their respective laboratory detection limits. One or more of the following PAHs: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene were detected at concentrations ranging from 0.168 to 14.6 mg/kg in the subsurface soil sample collected from boring B102 and the surficial soil sample collected from SS103.

The concentration of benzo(a)pyrene detected in the subsurface soil sample collected from B102 (5.91 mg/kg) exceeded its highest background concentration (1.41 mg/kg) and also exceeded its MEDEP RAGs for both "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios. The concentrations of benzo(a)anthracene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene exceeded their highest background concentrations, but did not exceed their MEDEP RAGs for "Excavation/Construction Worker" exposure scenarios. No other PAHs detected in the subsurface soil sample collected from B102 exceeded their respective MEDEP RAGs for "Excavation/Construction Worker" exposure scenarios, which is the applicable exposure scenario for subsurface soil samples.

The concentration of benzo(a)pyrene detected in SS103 (0.419 mg/kg) did not exceed its respective background concentration (1.41 mg/kg), but did exceed its MEDEP RAG for "Outdoor Commercial Worker" exposure scenario (0.35 mg/kg). No other PAHs detected in the soil sample collected from SS103 exceeded their respective MEDEP RAG for "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios.

Metals

Arsenic was detected in the subsurface soil sample collected from boring B102 and the surficial soil sample collected from SS103 at concentrations of 13 and 18 mg/kg, respectively, which exceeded its highest background concentration for arsenic (12 mg/kg) and its MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. Arsenic was detected in the surficial soil sample collected at SS104 at a concentration of 10 mg/kg, which did not exceed its highest background concentration, but did exceed its MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios.

Copper was detected in the subsurface soil sample collected from boring B102 and the surficial soil samples collected from SS103 and SS104 at concentrations of 70, 3,100, and 80 mg/kg, respectively, which exceeded its highest background concentration (35 mg/kg). The concentration of copper detected in SS103 (3,100 mg/kg) also exceeded its MEDEP RAG for "Excavation/Construction Worker" exposure scenario (870 mg/kg), but did not exceed its MEDEP RAG for "Outdoor Commercial Worker" exposure scenario (4,800 mg/kg).

Lead was detected in the subsurface soil sample collected from boring B102 at a concentration of 421 mg/kg, which exceeded its highest background concentration (142 mg/kg), but did not exceed its MEDEP RAGs for both "Outdoor Commercial Worker" (560 mg/kg) and "Excavation/Construction Worker" (950 mg/kg) exposure scenarios. Lead was detected in the surficial soil samples collected from SS103 and SS104 at concentrations of 29 and 8.9 mg/kg, respectively, which were below their corresponding background concentrations and MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios.

Cadmium was not detected at concentrations above its laboratory detection limits in the subsurface soil sample collected from boring B102 or the surficial soil samples collected from SS103 and SS104.

Polychlorinated Biphenyls

As shown in Table 2, PCBs were not detected in the surficial soil samples collected from B102, SS103, or SS104 at concentrations above their laboratory detection limits.

Groundwater Sample Analytical Results

As shown in Table 3, VOCs, EPH fractions, target PAHs, and metals (specifically arsenic, cadmium, copper, and lead) were not detected at concentrations above their laboratory detection limits in the groundwater sample collected from monitoring well MW102. One VPH fraction (C_9–C_{10} aromatics) was detected at a concentration of 11 micrograms per liter (µg/1) in the groundwater sample collected from MW102; however, this concentration did not exceed its respective MEG of 200 µg/1. No other VPH fractions were detected at concentrations above their laboratory detection limits in the groundwater sample collected from monitoring well MW102.

Discussion of Key AOC 2 Findings

Based on the laboratory analytical results and Ransom's observations during the Phase II ESA program, including XRF and PID field screening activities, VOCs, volatile and semi-volatile petroleum constituents do not appear to have adversely impacted subsurface or surficial soils in AOC 2 at this time. Elevated concentrations of PAHs detected in subsurface and surficial soil samples at AOC 2, which exceed their respective MEDEP RAGs for both "Outdoor Commercial Worker" and/or "Excavation/Construction Worker" exposure scenarios, suggests that subsurface and surficial soils at the Site contain urban fill likely associated with former railroad and/or industrial operations at the Site and vicinity and not be entirely associated with OHM releases at the Site.

Arsenic was detected in all soil samples collected from AOC 2 at concentrations exceeding its respective MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. These concentrations are not significantly elevated in comparison to the background concentrations for this metal, and are anticipated to represent naturally occurring concentrations. Copper was detected in one surficial soil sample collected from AOC 2 at a concentration exceeding its MEDEP RAG for "Excavation/Construction Worker" and background concentrations, and is likely associated with marine paint removal activities at the Site; therefore, it is anticipated that copper is present in surficial soils at AOC 2 at concentrations that pose a potential exposure risk. Lead was detected at concentrations representative of background conditions in surficial soils at AOC 2. Cadmium and PCBs were not detected in the subsurface or surficial soil samples at AOC 2.

Groundwater at AOC 2 does not appear to be adversely impacted with VOCs, volatile or semi-volatile petroleum constituents, PAHs, or metals at this time.

4.5 AOC 3– SOUTHERN PROPERTY BOUNDARY & OFF-SITE SOURCES

Soil Sample Analytical Results

Volatile Organic Compounds

As shown in Table 2, VOCs were not detected in the surficial soil sample collected from B103 at concentrations above their respective laboratory detection limits. Naphthalene was detected in the subsurface soil sample collected from B104 and the surficial soil samples collected from B103 and SS105 at concentrations of 9.03 to 0.202 mg/kg, respectively; however, the concentrations of naphthalene were below their respective MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios.

Volatile Petroleum Hydrocarbons

C_9–C_{12} aliphatics were detected in the subsurface soil sample collected from B104 at a concentration of 6.37 mg/kg, which did not exceed its MEDEP Remediation Guidelines for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. C_9–C_{10} aromatics were detected in the subsurface soil sample collected from boring B104 and the surficial soil samples collected from B103 and SS105 at concentrations ranging from 0.802 to 8.34 mg/kg; however, these VPH concentrations were below their respective MEDEP Remediation Guidelines for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. No other VPH fractions were detected at concentrations above their respective laboratory detection limits in the subsurface soil sample collected from boring B104 or the surficial soil samples collected from B103 or SS105.

Extractable Petroleum Hydrocarbons

Two EPH fractions (C_{19}–C_{36} aliphatics and C_{11}–C_{22} aromatics) were detected in the subsurface soil sample collected from B104 at concentrations of 35.7 and 34.6 mg/kg, respectively, which did not exceed their background concentrations or their MEDEP Remediation Guidelines for "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios. C_9–C_{18} aliphatics was not detected at a concentration above its laboratory detection limit in the subsurface soil sample collected from B104.

One or more of the following EPH fractions (C_9–C_{18} aliphatics, C_{19}–C_{36} aliphatics, and C_{11}–C_{22} aromatics) were detected in the surficial soil samples collected from B103 and SS105 at concentrations ranging from 20.3 to 512 mg/kg, which exceeded their background concentrations, but did not exceed their MEDEP Remediation Guidelines for "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios.

Target Polycyclic Aromatic Hydrocarbons

One or more of the following PAHs: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene were detected at concentrations ranging from 0.15 to 37.4 mg/kg in the subsurface soil sample collected from boring B104 and the surficial soil samples collected from B103 and SS105.

The concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene detected in the surficial soil sample collected from B103 exceeded their highest background concentrations and MEDEP RAGs for "Outdoor Commercial Worker" exposure scenarios, but did not exceed their MEDEP RAGs for "Excavation/Construction Worker" exposure scenarios. No other PAHs detected in the surficial soil sample collected from B103 exceeded their respective MEDEP RAGs for "Outdoor Commercial Worker" exposure scenarios, which is the applicable exposure scenario for surficial soil samples given the current and anticipated site use.

The concentration of benzo(a)pyrene detected in the subsurface soil sample collected from B104 (0.702 mg/kg) did not exceed its respective background concentration (1.41 mg/kg), but did exceed its MEDEP RAG for "Outdoor Commercial Worker" exposure scenario (0.35 mg/kg). No other PAHs detected in the subsurface soil sample collected from B104 exceeded their respective MEDEP RAGs for "Excavation/Construction Worker" exposure scenarios, which is the applicable exposure scenario for subsurface soil samples.

The concentrations of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene detected in the surficial soil sample collected from SS105 exceeded their highest background concentrations and MEDEP RAGs for "Outdoor Commercial Worker" exposure scenarios. No other PAHs detected in the surficial soil sample collected from SS105 exceeded their respective MEDEP RAGs for "Outdoor Commercial Worker" exposure scenarios, which is the applicable exposure scenario for surficial soil samples.

Metals

Arsenic was detected in the surficial soil sample collected from B103 and the subsurface soil sample collected from B104 at concentrations ranging from 6.7 to 11 mg/kg, respectively, which did not exceed the highest background concentration for arsenic (12 mg/kg), but did exceed the MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. Arsenic was detected in the surficial soil sample collected at SS105 at a concentration of 41 mg/kg, which exceeded its highest background concentration and MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios.

Lead was detected in the surficial soil sample collected from B103 at a concentration of 110 mg/kg, which was below its background concentration and MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. Lead was detected in the subsurface soil sample collected from boring B104 and the surficial soil sample collected from SS105 at concentrations of 552 and 286 mg/kg, respectively, which exceeded its highest background concentration (142 mg/kg), but did not exceed its MEDEP RAGs for both "Outdoor Commercial Worker" (560 mg/kg) and "Excavation/Construction Worker" (950 mg/kg) exposure scenarios.

Groundwater Sample Analytical Results

As shown in Table 3, VOCs, VPH fractions, EPH fractions, target PAHs, and metals (specifically arsenic and lead) were not detected at concentrations above their laboratory detection limits in the groundwater samples collected from monitoring wells MW103 or MW104, with the exception of one VPH fraction (C_9–C_{10} aromatics), which was detected at a concentration of 12 µg/1 in the groundwater sample collected from MW104; however, this concentration did not exceed its respective MEG of 200 µg/1.

Discussion of Key AOC 3 Findings

Based on the laboratory analytical results and Ransom's observations during the Phase II ESA program, including XRF and PID field screening activities, VOCs, volatile and semi-volatile petroleum constituents do not appear to have adversely impacted subsurface or surficial soils in AOC 3 at this time. Elevated concentrations of PAHs detected in subsurface and surficial soil samples at AOC 3, which exceed their respective MEDEP RAGs for both "Outdoor Commercial Worker" and/or "Excavation/Construction Worker" exposure scenarios suggests that subsurface and surficial soils at the Site contain urban fill likely associated with former railroad and/or industrial operations at the Site and vicinity and not directly associated with OHM releases at the Site.

Arsenic was detected in all soil samples collected from AOC 3 at concentrations exceeding its respective MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. Lead was detected at concentrations exceeding its background conditions in surficial and subsurface soils at AOC 3; however, the lead concentrations did not exceed its MEDEP RAGs for both "Outdoor Commercial Worker" and "Excavation/Construction Worker" exposure scenarios. The concentrations of arsenic and lead in soils at AOC 3 were elevated in comparison to the background concentrations for these metals, and therefore, are likely representative of urban fill associated with former railroad and/or industrial operations at the Site and vicinity and may not be entirely associated with potential OHM releases at the Site. Cadmium was not detected in the subsurface or surficial soil samples at AOC 3.

Groundwater at AOC 3 does not appear to be adversely impacted with VOCs, volatile or semi-volatile petroleum constituents, PAHs, or metals at this time, which suggests that potentially contaminated groundwater originating from upgradient properties in the Site vicinity has not migrated onto the Site.

4.6 HAZARDOUS BUILDING MATERIALS

Ransom conducted a HMI concurrent with our Phase II ESA investigation, which included interior and exterior inspections of the Site buildings. The HMI identified universal wastes, including PCB-containing fluorescent light ballast, and mercury-containing fluorescent light tubes throughout the Site buildings. Laboratory analysis and fields screening methods did not identify asbestos-containing materials (ACM) or lead-based paint (LBP) associated with the Site buildings. Results of the HMI are detailed in the full HMI report provided as Appendix D.

5.0 QUALITY ANALYSIS/QUALITY CONTROL

The contracted laboratory, Analytics Environmental Laboratory (Analytics) of Portsmouth, New Hampshire, provided Level II analytical data, according to USEPA protocols and USEPA laboratory data validation guidance included in Ransom's Generic QAPP for Brownfield sites in Maine. Analytics provided the following information in analytical reports:

- Data results sheets;
- Method blank results;
- Surrogate recoveries and acceptance limits;
- Duplicate results/acceptance limits;
- Spike/duplicate results/acceptance limits;
- Laboratory control sample results;
- Description of analytical methods and results; and
- Other pertinent results/limits as deemed appropriate.

As outlined in the Generic QAPP, at the completion of the field tasks and receipt of the analytical results, a data usability analysis was conducted to document the precision, bias, accuracy, representativeness, comparability, and completeness of the results. The following sections present this analysis. A summary of duplicate sample analytical results is included as Table 5.

5.1 PRECISION

Precision measures the reproducibility of measurements. The precision measurement is established using the relative percent difference (RPD) between the duplicate sample results. Relative percent differences were calculated for soil, groundwater, and soil vapor samples where both sample and duplicate values were greater than five times the Practical Quantitation Limit (PQL) of the analyte. The RPD is calculated as follows:

$$RPD = \frac{\text{(Sample Result - Duplicate Result)}}{\text{Mean of the Two Results}} \times 100$$

One duplicate soil, groundwater, and soil vapor sample were collected for laboratory analysis. The duplicate soil sample (SS10X) was collected from surficial soil sample SS101 (0 to 2 feet) and was submitted for laboratory analysis of VOCs, VPH, EPH, PAHs, PCBs, and metals (arsenic, cadmium, copper, and lead). The duplicate groundwater sample (MW10X) was collected from temporary monitoring well MW104 and was submitted for laboratory analysis of VOCs, VPH, EPH, PAHs, and metals (arsenic, cadmium, copper, and lead). The duplicate soil vapor sample (SVDUP) was collected from temporary soil vapor point SV101 and was submitted for laboratory analysis of APH and VOCs by TO-15. A summary of duplicate sample analytical results and calculated RPDs is presented in the attached Table 5.

Surficial Soil Sample (SS101)

- VOCs were not detected in the SS101 soil sample or its duplicate soil sample (SS10X) above their respective laboratory reporting limits; therefore, no RPD was applicable.

- Eight target PAH compounds were detected in the SS101 soil sample and its duplicate soil sample (SS10X) at concentrations greater than five times their PQL for the compounds. The RPDs for six of these eight target PAH compounds [benzo(b)fluoranthene, benzo(a)pyrene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene] were below their 35 percent guideline; therefore, the precision of these sample results are acceptable; however, the RPDs for two of these PAH compounds [benzo(a)anthracene and phenanthrene] were above their 35 percent guideline; therefore, the precision of these sample results falls outside the guidance range.

- VPH fractions were not detected in the SS101 soil sample or its duplicate soil sample (SS10X) above their respective laboratory reporting limits; therefore, no RPD was applicable.

- Two EPH fractions (C_{19} to C_{36} aliphatics and C_{11} to C_{22} aromatics) were detected in the SS101 soil sample and its duplicate soil sample (SS10X) at concentrations greater than five times their PQL for the compounds. The RPDs for both of these EPH fractions were above their 35 percent guideline; therefore, the precision of these sample results falls outside the guidance range.

- Three metals (arsenic, copper, and lead) were detected in the SS101 soil sample and its duplicate soil sample (SS10X) at concentrations greater than five times their PQL for the compounds. The RPDs for two of these metals (arsenic and lead) were below their 35 percent guideline; therefore, the precision of these sample results are acceptable; however, the RPD for copper was above its 35 percent guideline; therefore, the precision of this sample result falls outside the guidance range.

- PCBs were not detected in the in the SS101 soil sample or its duplicate soil sample (SS10X) above their respective laboratory reporting limits; therefore, no RPD was applicable.

Groundwater Sample (MW104)

- VOCs were not detected in the MW104 groundwater sample or its duplicate groundwater sample (MWX) above their respective laboratory reporting limits; therefore, no RPD was applicable.

- Target PAHs were not detected in the MW104 groundwater sample or its duplicate groundwater sample (MWX) above their respective laboratory reporting limits; therefore, no RPD was applicable.

- Only one VPH fraction (C_9 to C_{10} aromatics) was detected in the MW104 groundwater sample and its duplicate groundwater sample (MWX) at a concentration greater than five

times its PQL. The RPD for this VPH fraction was below its 35 percent guideline; therefore, the precision of this sample result is acceptable.

- EPH fractions were not detected in the MW104 groundwater sample or its duplicate groundwater sample (MWX) above their respective laboratory reporting limits; therefore, no RPD was applicable.

- Metals (arsenic and lead) were not detected in the MW104 groundwater sample or its duplicate groundwater sample (MWX) above their respective laboratory reporting limits; therefore, no RPD was applicable.

Soil Vapor Sample (SV101)

- Twelve VOCs were detected in the SV101 soil vapor sample and its duplicate soil vapor sample (SVDUP) at concentrations greater than five times their PQL for the compounds. The RPDs for all of these VOCs were below their 35 percent guideline; therefore, the precision of these sample results are acceptable.

- Only one VPH fraction (C_5 to C_8 aliphatics) was detected in the soil vapor sample and its duplicate soil vapor sample (SVDUP) at a concentration greater than five times its PQL. The RPD for this VPH fraction was below its 35 percent guideline; therefore, the precision of this sample result is acceptable.

5.2 BIAS

Bias is the systematic or persistent distortion of a measurement process that causes errors in one direction. Bias assessments are made using personnel, equipment, and spiking materials or reference materials as independent as possible from those used in the calibration of the measurement system. Bias assessments were based on the analysis of spiked samples so that the effect of the matrix on recovery is incorporated into the assessment. A documented spiking protocol and consistency in following that protocol are important to obtaining meaningful data quality estimates.

Matrix spike and matrix spike duplicate samples (MS/MSD) were used to assess bias as prescribed in the specified methods. Acceptable recovery values were within the recoveries specified by each of the analysis methods. Control samples for assessing bias were analyzed at a rate as specified in the analytical SOPs and specified analytical methods.

The lab provides quality control non-conformance reports that indicate if Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD) and/or MS/MSD had low, failing, or high recoveries and if the sample result was affected. Likewise, the lab reports any compounds that had failing RPDs in the LCS/LCSD pair or the MS/MSD pair. This indicates the percent difference between the lab sample and its duplicate or the spike and its' duplicate. Specific comments from the laboratory included the following:

Volatile Organic Compounds

There were no bias issues identified by the laboratory in the soil, groundwater, or soil vapor samples collected and analyzed for VOCs.

Volatile Petroleum Hydrocarbons

There were no bias issues identified by the laboratory in the soil, groundwater, or soil vapor samples collected and analyzed for VPH compounds.

Extractable Petroleum Hydrocarbons & Polycyclic Aromatic Hydrocarbons

There were no bias issues identified by the laboratory in the soil and groundwater samples collected and analyzed for VPH and PAH compounds.

Metals

There were no bias issues identified by the laboratory in the soil or groundwater samples collected and analyzed for Metals.

PCBs by EPA 8082

There were no bias issues identified by the laboratory in the soil samples collected and analyzed for PCBs.

5.3 ACCURACY

Accuracy is a statistical measurement of correctness and includes components of random error (variability due to imprecision) and systemic error. It therefore reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value or known concentration of the spike or standard. For volatile and semi-volatile organic compounds, surrogate compound recoveries are also used to assess accuracy and method performance for each sample analyzed. Analysis of performance evaluation samples will also be used to provide additional information for assessing the accuracy of the analytical data being produced. Both accuracy and precision are calculated for each analytical batch, and the associated sample results are interpreted by considering these specific measurements.

The lab provides a non-conformance summary that reports if all of the quality control criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for analysis were within acceptable limits. According to the laboratory, unless noted in the non-conformance summary, all of the quality control criteria for these analyses were within acceptable limits.

5.4 REPRESENTATIVENESS

Objectives for representativeness are defined for each sampling and analysis task and are a function of the investigative objectives. Representativeness was accomplished during this project through use of standard field, sampling, and analytical procedures. All objectives for sampling and analytical representativeness, as specified in SSQAPP, were met.

5.5 COMPARABILITY

Comparability is the confidence with which one data set can be compared to another data set. The objective for this QA/QC program is to produce data with the greatest possible degree of comparability. Comparability was achieved by using standard methods for sampling and analysis, reporting data in standard units, normalizing results to standard conditions and using standard and comprehensive reporting formats. Complete field documentation was used, including standardized data collection forms to support the assessment of comparability. Historical comparability shall be achieved through consistent use of methods and documentation procedures throughout the project.

5.6 COMPLETENESS

Completeness is calculated by comparing the number of samples successfully analyzed to the number of samples collected. The goal for completeness is 95 percent. The completeness for this project was 100 percent, as there were no samples that could not be analyzed due to holding time violations, samples spilled or broken, or any other reason.

6.0 CONCLUSIONS

Findings from the Phase II investigation identified that surficial and subsurface soils throughout the Site contain apparent urban fill materials, including wood, metal, brick, and coal. Laboratory analysis of soil samples collected from surficial and subsurface soils including areas of observed urban fill materials indicate that these soils contain low concentrations of VOCs and volatile and semi-volatile petroleum products at concentrations that did not exceed their corresponding MEDEP RAGs or Remediation Guidelines for "Outdoor Commercial Worker" and/or "Excavation/Construction Worker" exposure scenarios. PCBs were not detected above its corresponding laboratory detection limits or the MEDEP RAGs in the surficial or subsurface soil samples submitted for laboratory analysis at the Site. However, these soils exhibited elevated concentrations of PAHs and metals (specifically arsenic and copper) at concentrations that exceed their corresponding MEDEP RAGs for "Outdoor Commercial Worker" and/or "Excavation/Construction Worker" exposure scenarios. The presence of the low contaminant concentrations and urban fill materials may also be associated with former railroad and/or former industrial operations at the Site and vicinity and may not only be associated with OHM releases at the Site, during its use as the Belfast Boatyard.

Ransom did not observe evidence of "petroleum-saturated soils" or evidence of "free petroleum product" contamination in groundwater encountered during the soil boring advancements or gauging of temporary groundwater monitoring wells. Laboratory analysis of groundwater samples collected at the Site indicate that groundwater does not contain VOCs, volatile or semi-volatile petroleum constituents, PAHs, or metals at concentrations above their respective laboratory detection limits or Maine MEGs, as established by the Maine CDC, with the exception of one VPH fraction (C_9–C_{10} aromatics), which was detected in the Site groundwater at concentrations above its laboratory detection limit but below its respective MEG for drinking water. Based on this information, Ransom concludes that boat maintenance/repair activities conducted at the Site, during its use as the Belfast Boatyard, do not appear to have adversely impacted the groundwater quality at the Site and known or potentially unknown contaminated groundwater originating from upgradient properties in the Site vicinity does not appear to have migrated onto the Site at this time.

Soil vapor was determined to contain low level concentrations of VOCs and volatile petroleum compounds at concentrations that do not exceed their applicable soil gas target guidelines for commercial use; however, some VOCs exceed their applicable soil gas target guidelines for residential use. The presence of these contaminants in soil vapor are likely associated with *de minimis* petroleum residues that are incidental to the normal operation of motor vehicles and/or boatyard maintenance/repair activities at the Site and vicinity.

Ransom also conducted a HMI concurrent with our Phase II ESA investigation, which identified universal wastes and hazardous building materials, including potential PCB-containing fluorescent light ballasts and mercury-containing fluorescent light tubes throughout the Site buildings. Laboratory analysis and field screening procedures during the HMI did not identify ACM or LBP in connection with the Site buildings.

7.0 RECOMMENDATIONS

Based on the information obtained during this Phase II Investigation, Ransom recommends the following with respect to the proposed Site redevelopment:

1. The Site should be submitted to the MEDEP Voluntary Response Action Program (VRAP). The MEDEP VRAP is a voluntary review program that offers technical review of environmentally-impacted sites and ultimately state liability protections for interested parties including a "No Action Assurance" letter and a "Certificate of Completion" letter (i.e. no further action required), provided that proper and appropriate environmental cleanup or remedial actions are completed, as approved by the MEDEP; and

2. The risk of human exposure to PAH compounds and metals (specifically arsenic and copper) identified in surficial soils at concentrations exceeding their respective MEDEP RAGs and/or background concentrations should be mitigated. As such, Ransom recommends the completion of an Analysis of Brownfields Cleanup Alternatives (ABCA) and Conceptual Remedial Action Plan (RAP) or Focused Feasibility Study (FFS) to evaluate and select the most appropriate cleanup or remedial action(s) for the Site. Soil mitigation measures to prevent the exposure of identified contamination may include engineering controls consisting of the placement of a soil cover system or other direct barrier system (e.g., pavement, concrete, building foundations) to prevent direct dermal contact with the identified contaminated surficial and subsurface soils and/or a deed restriction and institutional controls in the form of a Declaration of Environmental Covenant (DEC) in order to potentially restrict excavation of impacted soils at the Site without proper MEDEP notification/approvals, implementation of a soil management plan, and a health and safety plan.

3. If the Site is to continue operation as a boat yard, certain engineering controls and institutional controls should be implemented to prevent the potential future release(s) of hazardous materials to the environment. Ransom recommends that the property owner evaluate engineered systems or other management controls to prevent the discharge of paint dust containing elevated concentrations of metals to the ground surface at the Site. Furthermore, Ransom recommends that hazardous wastes generated at the Site, including, but not limited to, paint dust, used solvents, waste engine fluids, used batteries, and partially empty paint cans, be collected and properly disposed of, in accordance with local, State, and/or Federal hazardous waste regulations and guidelines. If applicable, the Site should be registered with the US EPA Resource Conservation Recovery Act (RCRA) program and a US EPA Hazardous Waste Identification (I.D.) Number should be obtained for proper management of hazardous wastes.

8.0 REFERENCES

1. MEDEP, Bureau of Remediation; January 13, 2010; Vapor Intrusion Evaluation Guidance.

2. MEDEP; December 1, 2009; Remediation Guidelines for Petroleum Contaminated Sites in Maine.

3. MEDEP; January 6, 2010; Maine Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances.

4. MEDEP; January 11, 2012; *Draft* Maine Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances.

5. Maine Center for Disease Control (MCDC); September 30, 2011; Maximum Exposure Guidelines (MEGs) for Drinking Water.

6. USEPA Region 9; May 2012; Regional Screening Levels (RSLs).

7. Ransom Consulting Inc.; July 6, 2012; Phase I Environmental Site Assessment, Belfast Boatyard, 39 and 41 Front Street, Belfast, Maine.

8. Ransom Consulting Inc.; July 30, 2012; Site-Specific Quality Assurance Project Plan Addendum No. 19, Phase II Investigation, Belfast Boatyard, 39 and 41 Front Street, Belfast, Maine.

9. Ransom Environmental Consultants Inc.; August 27, 2008; State of Maine Brownfields Assessment Projects Generic Quality Assurance Project Plan (QAPP) RFA #08243.

9.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Ransom performed services in a manner consistent with the guidelines set forth in the American Society for Testing and Materials (ASTM) E 1903-97 (Standard Practices for Environmental Site Assessments: Phase II Environmental Site Assessment Process), and in accordance with the scope of work and standard operating procedures outlined in the Generic QAPP and SSQAPP.

The following Ransom personnel possess the sufficient training and experience necessary to conduct a Phase II Environmental Site Assessment, and from the information generated by such activities, have the ability to develop opinions and conclusions regarding recognized environmental conditions in connection with the Site.

Environmental Professionals:

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Associate Project Manager/Primary Author

Eriksen P. Phenix, C.G.
Project Geologist

Peter J. Sherr, P.E.
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Nicholas O. Sabatine, P.G.
Vice President/Senior Geologist/Belfast Brownfields QA Officer

TABLE 1: SOIL SAMPLE FIELD SCREENING RESULTS: METALS
Phase II Environmental Site Assessment
39 & 41 Front Street
Belfast, Maine

Boring ID	Sample	As	Pb
		mg/kg	
B101	S1	21	23
	S3	19	51
	S5	ND	37
B102	S1	24	49
B103	S1	ND	33
B104	S1	37	248
SS101	S1	22	24
SS102	S1	ND	69
SS103	S1	47	38
SS104	S1	ND	18
SS105	S1	84	363
BK1	S1	ND	30
BK2	S1	ND	255
BK3	S1	27	30

NOTES:
mg/kg = milligrams per kilogram

Table 2: Soil Sample Analytical Results
Belfast Boatyard
41 Front Street, Belfast, Maine

Sample Location	B101	B102	B103	B104	SS101	SS102	SS103	SS104	SS105	BK-1	BK-2	BK-3	MEDEP Remedial Action Guidelines (RAGs) for Soil Contaminated with Hazardous Substances (Jan. 6, 2010)				Draft MEDEP Remedial Action Guidelines for Sites Contaminated with Hazardous Substances (Jan 11, 2012)					
Sample Identification	B101-S1	B102-S5	B103-S1	B104-S3	SS101	SS102	SS103	SS104	SS105	BK-1	BK-2	BK-3										
Sample Depth (ft bgs)	0-2	8-10	0-2	4-6	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	Residential	Park User	Outdoor Commercial Worker	Excavation/ Construction Worker	Residential	Park User	Outdoor Commercial Worker	Excavation/ Construction Worker	Background Rural	Background Urban
Date Collected	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012										
Volatile Organic Compounds	milligrams per kilogram (mg/kg)																					
Naphthalene	ND	ND	ND	9.03	ND	ND	ND	ND	0.202	NA	NA	NA	200	330	200	32	2500	4200	10,000	10,000	NE	NE
Styrene	ND	ND	ND	ND	ND	ND	0.071 J	ND	ND	NA	NA	NA	6,700	10,000	10,000	10,000	10,000	10,000	10,000	10,000	NE	NE
Tetrachloroethene	ND	0.283	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	2.6	4.4	8.8	79	26	44	88	800	NE	NE
Trichloroethene	ND	0.165	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	110	180	360	2,900	85	140	850	140	NE	NE
All Other VOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	NE	NE
Target Polycyclic Aromatic Hydrocarbons (PAHs)																						
Acenaphthene	ND	0.99	0.150 J	ND	ND	ND	ND	ND	3.94	ND	NA	NA	970	1,600	2,000	110	7500	10,000	10000	9800	0.479	0.6072
Acenaphthylene	ND	0.707	0.257 J	ND	ND	ND	ND	ND	0.860 J	ND	NA	NA	1,000	1,700	2,200	130	7500	10,000	10000	10000	0.4937	0.6606
Anthracene	ND	1.99	0.421	0.164 J	ND	0.179 J	ND	ND	7.16	0.414	NA	NA	4,300	7,200	7,800	430	10000	10,000	10000	3800	0	1.63
Benzo(g,h,i) perylene	ND	4.35	1.96	0.52	ND	0.704	0.282	ND	8.96	1.01	NA	NA	750	1,200	5,500	10,000	3,700	6,200	10,000	10,000	1	2.035
Benzo[a]pyrene	ND	**5.91**	**2.63**	0.702	0.181 J	**0.912**	**0.419**	ND	**15.5**	**1.41**	NA	NA	0.026	0.044	0.35	4.3	0.26	0.44	3.5	43	2	4.57
Benzo[a]anthracene	ND	5.35	2.5	0.535	0.181 J	0.788	0.42	ND	**16.8**	1.43	NA	NA	0.26	0.44	3.5	43	2.6	4.4	35	430	2	4.15
Benzo[b]fluoranthene	ND	8.04	**3.93**	0.902	0.230 J	1.26	0.618	ND	**19.8**	2.48	NA	NA	0.26	0.44	3.5	43	2.6	4.4	35	430	3	5.335
Benzo[k]fluoranthene	ND	2.34	1.3	0.291	ND	0.385	0.168 J	ND	6.54	0.803	NA	NA	2.6	4.4	35	430	26	44	350	4300	2	3.225
Chrysene	ND	6.07	2.72	0.649	0.177 J	0.869	0.44	ND	15.6	1.91	NA	NA	26	44	350	4,300	260	440	3,500	10,000	4	4.1
Dibenz[a,h]anthracene	ND	0.93	**0.535**	ND	ND	ND	ND	ND	**2.63**	0.314	NA	NA	0.026	0.044	0.35	4.3	0.26	0.44	3.5	43	NE	NE
Fluoranthene	ND	14.2	4.01	0.882	0.356	1.28	0.777	ND	34.2	1.82	NA	NA	1,000	1,700	7,300	10,000	5,000	8,300	10,000	10,000	4	7.635
Fluorene	ND	1.61	0.164 J	ND	ND	ND	ND	ND	4.55	ND	NA	NA	830	1,400	2,700	200	5000	8,300	10000	10000	0	0.708
Indeno[1,2,3-cd]pyrene	ND	5.06	2.27	0.648	0.139 J	0.76	0.386	ND	**10.5**	1.21	NA	NA	0.26	0.44	3.5	43	2.6	4.4	35	430	2	2.6
2-Methylnaphthalene	ND	0.484	0.365	ND	ND	ND	ND	ND	ND	1.62	ND	NA	NA	94	160	480	35	500	830	3600	600	0.414	0.804
Naphthalene	ND	0.891	0.324	ND	ND	ND	ND	ND	ND	2.52	ND	NA	NA	200	330	200	32	2500	4,200	10000	10000	0.041	0.8368
Phenanthrene	ND	14.6	2.36	0.528	0.302	0.831	0.516	ND	37.4	0.434	NA	NA	700	1,200	3,600	470	3700	6,200	10000	10000	1.608	4.064
Pyrene	ND	11.9	3.41	0.775	0.31	1.15	0.649	ND	29.4	1.82	NA	NA	750	1,200	5,500	10,000	3,700	6,200	10,000	10,000	4.016	6.71
Extractable Petroleum Hydrocarbon (EPH) Fractions																						
C9-C18 Aliphatics	ND	ND	20.3	ND	ND	ND	ND	ND	ND	ND	NA	NA	NE	NE	NE	NE	2600	4400	10000	7300	NE	NE
C19-C36 Aliphatics	14.3	40.6	76.4	35.7	49.4	194	90.6	32.9	512	39.8	NA	NA	NE	NE	NE	NE	10000	10000	10000	10000	NE	NE
C11-C22 Aromatics	8.260 J	109	103	34.6	13.4	83	23	8.98 J	405	43.4	NA	NA	NE	NE	NE	NE	730	1,200	4,500	4,700	NE	NE
Volatile Petroleum Hydrocarbon (VPH) Fractions																						
C5-C8 Aliphatics	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NE	NE	NE	NE	1400	2300	10000	10000	NE	NE
C9-C12 Aliphatics	ND	ND	ND	6.37	ND	ND	ND	ND	ND	NA	NA	NA	NE	NE	NE	NE	2600	4400	10000	9800	NE	NE
C9-C10 Aromatics	ND	1.28	1.35	8.34	ND	0.774	0.575	ND	0.802	NA	NA	NA	NE	NE	NE	NE	740	1200	5100	5500	NE	NE
Metals																						
Arsenic	**16**	**13**	**6.7**	**11**	**13**	**13**	**18**	**10**	**41**	**6.2**	**9.6**	**12**	0.14	0.23	0.42	4.2	1.4	2.3	4.2	42	15	NE
Cadmium	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	ND	0.26 J	ND	2.1	3.6	19	3.9	11	18	94	19	NE	NE
Copper	221	70	ND	ND	296	3780	3100	80	ND	35	25	25	480	790	4,800	870	2400	4000	10000	4300	28	NE
Lead	12	421	110	552	16	45	29	8.9	286	13	142	49	170	280	560	950	340	530	1100	950	NE	NE
Polychlorinated Biphenyls (PCBs)																						
Arochlor 1016	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	0.49 [(5)]	0.82 [(5)]	1.2 [(5)]	1.3 [(5)]	2.4 [(5)]	4.1 [(5)]	12 [(5)]	6.1 [(5)]	NE	NE
Arochlor 1254	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	0.49 [(5)]	0.82 [(5)]	1.2 [(5)]	1.3 [(5)]	2.4 [(5)]	4.1 [(5)]	12 [(5)]	6.1 [(5)]	NE	NE

Notes:
MEDEP = Maine Department of Environmental Protection
mg/kg = milligrams per kilogram
NE indicates that a standard or guideline is "not established' for the referenced parameter.
ND = Not Detected above the laboratory detection limit
[(5)] Standard is for total of all isomers (i.e., total PCBs, not individual Arochlors).
Values in **bold** text exceed applicable MEDEP RAGs
J= estimated concentration

Table 3: Groundwater Sample Analytical Results
Belfast Boatyard
41 Front Street, Belfast, Maine

Sample I.D.	MW101	MW102	MW103	MW104	MCDC Maximum Exposure Guidelines (MEGs)	USEPA Maximum Contaminant Level (MCLs)
Date Collected	**8/3/2012**	**8/3/2012**	**8/3/2012**	**8/3/2012**	**Groundwater (ug/L)**	
Volatile Organic Compounds						
All VOCs	ND	ND	ND	ND	Various	Various
Target Polycyclic Aromatic Hydrocarbons (PAHs)						
All Target PAHs	ND	ND	ND	ND	400	NE
Extractable Petroleum Hydrocarbon (EPH) Fractions						
C9-C18 Aliphatics	ND	ND	ND	ND	700	NE
C19-C36 Aliphatics	ND	ND	ND	ND	10,000	NE
C11-C22 Aromatics	ND	ND	ND	ND	200	NE
Volatile Petroleum Hydrocarbon (VPH) Fractions						
C5-C8 Aliphatics	ND	ND	ND	ND	300	NE
C9-C12 Aliphatics	ND	ND	ND	ND	700	NE
C9-C10 Aromatics	ND	11	ND	12	200	NE
Metals						
Arsenic	ND	ND	ND	ND	10	10
Cadmium	ND	ND	NA	NA	1	5
Copper	ND	ND	NA	NA	500	1,300
Lead	ND	ND	ND	ND	10	15

Notes:
USEPA = United States Environmental Protection Agency
MECDC = Maine Center for Disease Control and Prevention
ug/L = micrograms per liter
NE indicates that a standard or guideline is "not established' for the referenced parameter.
ND = Not Detected above the laboratory detection limit
(4) National Secondary Drinking Water Regulations (secondary standards)

Table 4: Soil Vapor Analytical Results
Belfast Boatyard
41 Front Street, Belfast, ME

Sample I.D.	SV-101	Draft MEDEP Remedial Action Guidelines for Sites Contaminated with Hazardous Substances (Jan 11, 2012) [1]		MEDEP Vapor Intrusion Evaluation Guidance (Jan 14, 2010) [2]	
		Soil Gas Targets Residential	Soil Gas Targets Commercial	Soil Gas Targets Residential	Soil Gas Targets Commercial
Volatile Organic Compounds	**Air (ug/m3)**				
Benzene	6.64	31	160	15.5	80.0
Bromodichloromethane	2.06	NE	NE	NE	NE
1,3-Butadiene	14	8.1	41	4.05	20.5
Chloroethane	0.723	NE	NE	NE	NE
Chloroform	20.1	11	53	5.5	26.5
Dibromochloromethane	36.3	NE	NE	NE	NE
Ethylbenzene	1.24	97	490	48.5	245
Methyl-tert-butyl ether (MTBE)	2.34	940	4,700	470	2,350
Tetrachloroethene	27.0	41	210	20.5	105
Toluene	5.58	52,000	220,000	50,000	220,000
Trichlorofluoromethane	3.78	NE	NE	NE	NE
o-Xylene	1.38	1,000	4,400	1,050	4,400
m,p-Xylene	2.58	1,000	4,400	1,050	4,400
All other VOCs	ND	Various	Various	Various	Various
Air-Phase Petroleum Hydrocarbons					
C5-C8 Aliphatics	610	6300	26000	6,500	26,500
C9-C12 Aliphatics	150	2100	8800	2,100	9,000
C9-C10 Aromatics	ND	520	2200	500	2,200

Notes:
MEDEP = Maine Department of Environmental Protection
NE indicates that a standard or guideline is "not established' for the referenced parameter.
ND = Not Detected above the laboratory detection limit
[1] Soil Gas Targets = 10 times the Indoor Air Target, as discussed in the January 11, 2012 Draft MEDEP Remedial Action Guidelines
[2] Soil Gas Targets = 50 times the Indoor Air Target for Chronic Commercial scenario for multi-contaminant sites, as discussed in the MEDEP Vapor Intrusion Evaluation Guidelines (Jan. 14, 2010).

TABLE 5: SUMMARY OF DUPLICATE SAMPLE ANALYTICAL RESULTS
Phase II Environmental Site Assessment
Belfast Boatyard
39 & 41 Front Street, Belfast, Maine

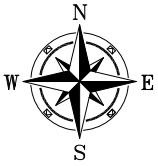
Sample Location	SS101	SS10X		MW104	MWX		SV101	SVDUP	
Sample Depth (ft bgs)	0-2 feet	0-2 feet	Relative Percent	6-16 feet	6-16 feet	Relative Percent	3-4 feet	3-4 feet	Relative Percent
Sample Date	8/3/2012	8/3/2012	Difference	8/3/2012	8/3/2012	Difference	8/3/2012	8/3/2012	Difference
Volatile Organic Compounds (VOCs)	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/m3		%
Benzene	BRL	BRL		BRL	BRL		6.64	6.52	1.8
Bromodichloromethane	BRL	BRL		BRL	BRL		2.06	2.00	3.0
Chloroethane	BRL	BRL		BRL	BRL		0.72	0.82	-12.3
Chloroform	BRL	BRL		BRL	BRL		20.10	18.20	9.9
Dibromochloromethane	BRL	BRL		BRL	BRL		36.30	38.60	-6.1
Ethylbenzene	BRL	BRL		BRL	BRL		1.24	1.24	0.0
Methyl tert-butyl ether	BRL	BRL		BRL	BRL		2.34	2.36	-0.9
Tetrachloroethene	BRL	BRL		BRL	BRL		27.00	26.90	0.4
Toluene	BRL	BRL		BRL	BRL		5.58	5.62	-0.7
Trichloroethene	BRL	BRL		BRL	BRL		3.78	4.55	-18.5
o-Xylene	BRL	BRL		BRL	BRL		1.38	1.40	-1.4
m,p-Xylene	BRL	BRL		BRL	BRL		2.58	2.59	-0.4
Polycyclic Aromatic Hydrocarbons (PAHs)	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/m3		%
Benzo[a]anthracene	0.181	0.259	-35.5	BRL	BRL		NA	NA	
Benzo[b]fluoranthene	0.230	0.304	-27.7	BRL	BRL		NA	NA	
Benzo[a]pyrene	0.181	0.227	-22.5	BRL	BRL		NA	NA	
Benzo(g,h,i)perylene	BRL	0.170		BRL	BRL		NA	NA	
Chrysene	0.177	0.243	-31.4	BRL	BRL		NA	NA	
Fluoranthene	0.356	0.486	-30.9	BRL	BRL		NA	NA	
Indeno[1,2,3-cd]pyrene	0.139	0.197	-34.5	BRL	BRL		NA	NA	
Phenanthrene	0.302	0.434	-35.9	BRL	BRL		NA	NA	
Pyrene	0.310	0.428	-32.0	BRL	BRL		NA	NA	
Volatile Petroleum Hydrocarbon (VPH) Fractions	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/m3		%
C_5 through C_8 Aliphatics	BRL	BRL		BRL	BRL		610	790	-25.7
C_9 through C_{12} Aliphatics	BRL	BRL		BRL	BRL		150	BRL	
C_9 through C_{10} Aromatics	BRL	BRL		12	14	-15.4	BRL	BRL	
Extractable Petroleum Hydrocarbon (EPH) Fractions	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/m3		%
C_9 through C_{18} Aliphatics	BRL	BRL		BRL	BRL		NA	NA	
C_{19} through C_{36} Aliphatics	49.4	80.5	-47.9	BRL	BRL		NA	NA	
C_{11} through C_{22} Aromatics	13.4	35.6	-90.6	BRL	BRL		NA	NA	
Metals	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/m3		%
Arsenic	13	12	8.0	BRL	BRL		NA	NA	
Cadmium	BRL	BRL		NA	NA		NA	NA	
Copper	296	484	-48.2	NA	NA		NA	NA	
Lead	16.0	15.0	6.5	BRL	BRL		NA	NA	
Polychlorinated Biphenyls (PCBs)	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/m3		%
All PCBs	BRL	BRL		NA	NA		NA	NA	

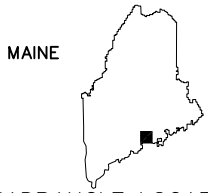
TAKEN FROM U.S.G.S. 7.5x15 MINUTE SERIES TOPOGRAPHIC MAP OF BELFAST, MAINE–1960 (REVISED 1979).

CONTOUR INTERVAL IS 10 FEET

SITE COORDINATES: LATITUDE 44°25'44"
LONGITUDE 69°00'22"

UTM COORDINATES: 49: 19: 286mN
4: 99: 574mE





QUADRANGLE LOCATION

SCALE in FEET
1: 24,000

RANSOM Consulting, Inc.

SITE LOCATION MAP

PREPARED FOR:

CITY OF BELFAST
131 CHURCH STREET
BELFAST, MAINE

SITE:

BELFAST BOATYARD
39 & 41 FRONT STREET
BELFAST, MAINE

DATE: AUGUST 2012
PROJECT: 111.06134
FIGURE: 1

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LEGEND:

- B101/MW101 — SOIL BORING/MONITORING WELL
- SS111 — SURFICIAL SOIL SAMPLE LOCATION
- SV101 — SOIL VAPOR SAMPLE LOCATION
- AOC1 — APPROXIMATE LIMIT OF AREA OF CONCERN
- APPROXIMATE SITE BOUNDARY (BOUNDARY TAKEN FROM CITY OF BELFAST TAX MAP)

NOTES:

1. SITE PLAN BASED ON OBSERVATIONS MADE BY RANSOM CONSULTING, INC. ON MAY 23, 2012. AERIAL IMAGE PROVIDED BY GOOGLE EARTH.
2. SOME FEATURES ARE APPROXIMATE IN LOCATION AND SCALE.
3. THIS PLAN HAS BEEN PREPARED FOR THE CITY OF BELFAST. ALL OTHER USES ARE NOT AUTHORIZED, UNLESS WRITTEN PERMISSION IS OBTAINED FROM RANSOM CONSULTING, INC.

0 25 50 100

SCALE in FEET
1"=50'

RANSOM Consulting, Inc.

PREPARED FOR:
CITY OF BELFAST
131 CHURCH STREET
BELFAST, MAINE

SITE:
BELFAST BOATYARD
39 & 41 FRONT STREET
BELFAST, MAINE

SITE PLAN

DATE: AUGUST 2012
PROJECT: 111.06134
FIGURE: 2

O:\ME-DWGS\2011\111.06134\39 41 Front\111.06134-007-P2.dwg Aug 17, 2012 - 9:31am

N

LEGEND:

- B101/MW101 91.67 — SOIL BORING/MONITORING WELL WITH GROUNDWATER ELEVATION
- SS111 — SURFICIAL SOIL SAMPLE LOCATION
- SV101 — SOIL VAPOR SAMPLE LOCATION
- 92.00 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- AOC1 — APPROXIMATE LIMIT OF AREA OF CONCERN
- APPROXIMATE SITE BOUNDARY (BOUNDARY TAKEN FROM CITY OF BELFAST TAX MAP)

NOTES:

1. SITE PLAN BASED ON OBSERVATIONS MADE BY RANSOM CONSULTING, INC. ON MAY 23, 2012. AERIAL IMAGE PROVIDED BY GOOGLE EARTH.
2. SOME FEATURES ARE APPROXIMATE IN LOCATION AND SCALE.
3. THIS PLAN HAS BEEN PREPARED FOR THE CITY OF BELFAST. ALL OTHER USES ARE NOT AUTHORIZED, UNLESS WRITTEN PERMISSION IS OBTAINED FROM RANSOM CONSULTING, INC.

0 25 50 100

SCALE in FEET
1"=50'

RANSOM Consulting, Inc.

PREPARED FOR:
CITY OF BELFAST
131 CHURCH STREET
BELFAST, MAINE

SITE:
BELFAST BOATYARD
39 & 41 FRONT STREET
BELFAST, MAINE

GROUNDWATER CONTOUR PLAN

AUGUST 3, 2012

DATE: AUGUST 2012
PROJECT: 111.06134
FIGURE: 3

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APPENDIX A

Boring Logs

Phase II Environmental Site Assessment
Belfast Boatyard
39 and 41 Front Street
Belfast, Maine

RANSOM
Consulting
Engineers
and Scientists

BORING AND MONITORING WELL LOG: B101/MW101

Reviewed by:		Total Depth:	11.2 Feet	Logged By:	EPP
Date Reviewed:	8/15/12	Boring Diameter:	2 Inches	Date Drilled:	8/3/12 to 8/3/12
GW Observed at:	7 Feet	Well Stickup:	20.0	Driller:	EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)	DEPTH	WELL CONSTRUCTION
	S1(0.0'-2.0') - 14" - Brown, well graded SAND and GRAVEL (fill) moist.		S1	NM	24/14	0		
	S2(2.0'-4.0') - No Recovery		S2	NM	24/0	-		
5	S3(4.0'-6.0') - 10" - Gray GRAVEL and pulverized rock, some Clay (fill), moist.		S3	NM	24/10	0	5	
	S4(6.0'-8.0') - No Recovery		S4	NM	24/0	-		
	S5(8.0'-10.0') - 9" - GRAVEL and SAND, with wood fragments (fill), moist.		S5	NM	24/9	0		
10	S6(10.0'-12.0') - No Recovery		S6	NM	24/0	-	10	
	Refusal at 11.2 bgs							
15							15	

LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1) Boring advanced using track-mounted GeoProbe 66DT direct push drill rig. 2) Sample designated with solid fill submitted for laboratory analysis. 3) Temporary well casing removed after sampling and boring backfilled with drill cuttings. 4) NA = Not Applicable; NM = Not Measured.

CLIENT:
City of Belfast

SITE:
Belfast Boatyard
41 Front Street
Belfast, ME

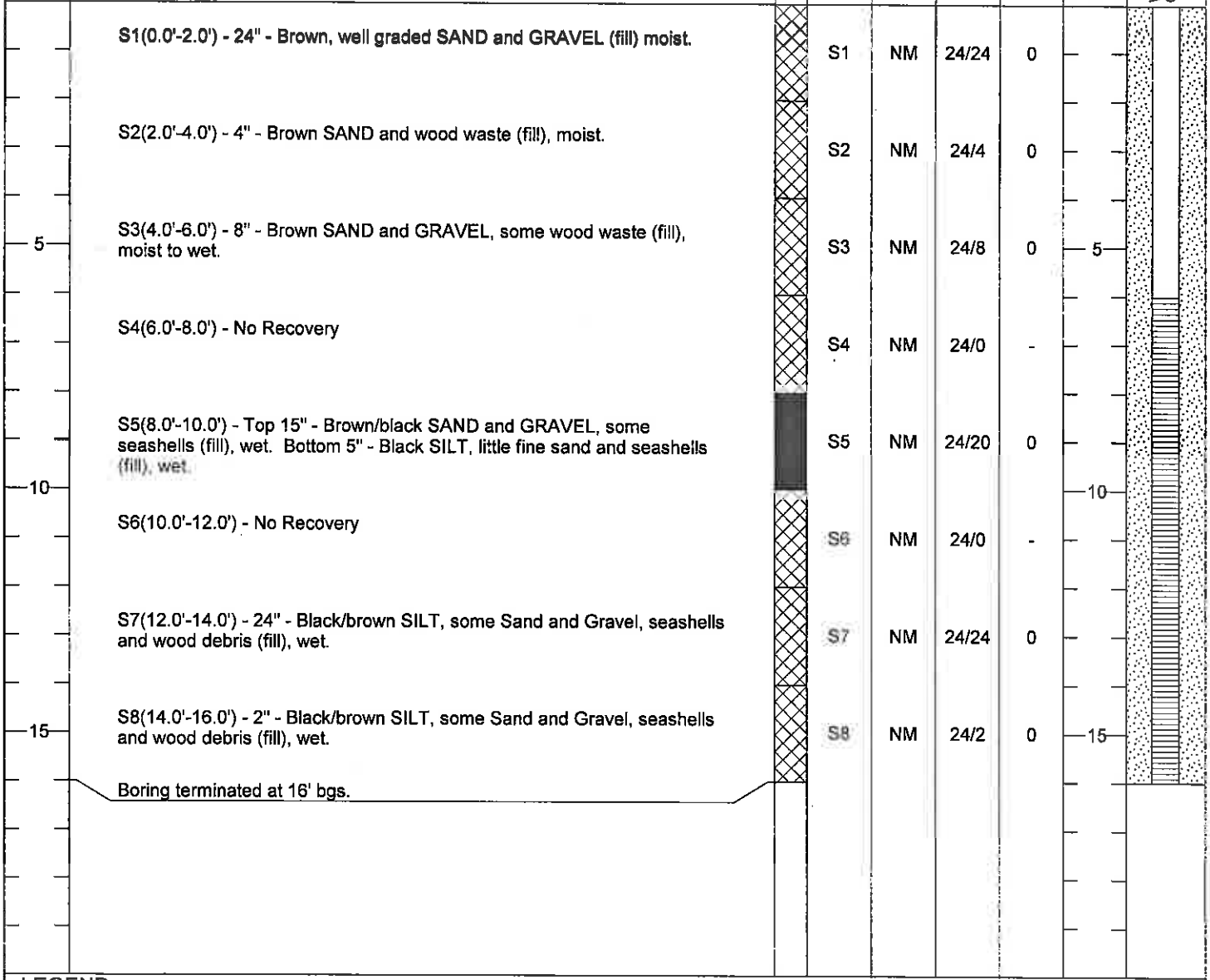
Project No.:111.06134.015

RANSOM
Consulting
Engineers
and Scientists

BORING AND MONITORING WELL LOG: B102/MW102

Reviewed by:		Total Depth:	16 Feet	Logged By:	EPP
Date Reviewed:	8/15/12	Boring Diameter:	2 Inches	Date Drilled:	8/3/12 to 8/3/12
GW Observed at:	6.7 Feet	Well Stickup:	17"	Driller:	EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)
	S1(0.0'-2.0') - 24" - Brown, well graded SAND and GRAVEL (fill) moist.		S1	NM	24/24	0
	S2(2.0'-4.0') - 4" - Brown SAND and wood waste (fill), moist.		S2	NM	24/4	0
5	S3(4.0'-6.0') - 8" - Brown SAND and GRAVEL, some wood waste (fill), moist to wet.		S3	NM	24/8	0
	S4(6.0'-8.0') - No Recovery		S4	NM	24/0	-
	S5(8.0'-10.0') - Top 15" - Brown/black SAND and GRAVEL, some seashells (fill), wet. Bottom 5" - Black SILT, little fine sand and seashells (fill), wet.		S5	NM	24/20	0
10	S6(10.0'-12.0') - No Recovery		S6	NM	24/0	-
	S7(12.0'-14.0') - 24" - Black/brown SILT, some Sand and Gravel, seashells and wood debris (fill), wet.		S7	NM	24/24	0
15	S8(14.0'-16.0') - 2" - Black/brown SILT, some Sand and Gravel, seashells and wood debris (fill), wet.		S8	NM	24/2	0
	Boring terminated at 16' bgs.					



LEGEND:

Filter Sand | Native Fill | Bentonite | Bentonite Grout | Concrete | PVC Screen | Solid PVC Riser

NOTES:
1) Boring advanced using track-mounted GeoProbe 66DT direct push drill rig. 2) Sample designated with solid fill submitted for laboratory analysis. 3) Temporary well casing removed after sampling and boring backfilled with drill cuttings. 4) NA = Not Applicable; NM = Not Measured.

CLIENT:
City of Belfast

SITE:
Belfast Boatyard
41 Front Street
Belfast, ME

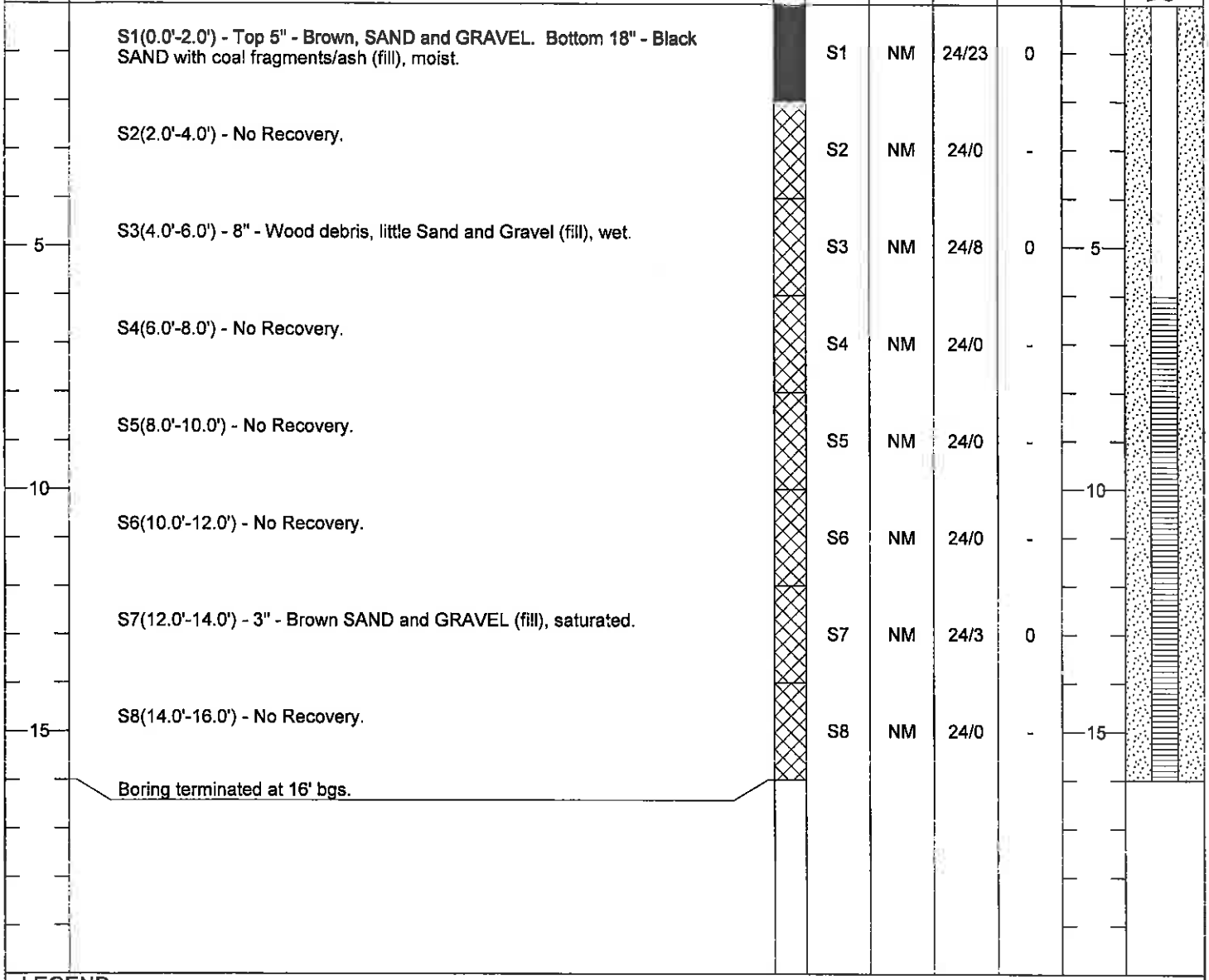
Project No.:111.06134.015

RANSOM
Consulting
Engineers
and Scientists

BORING AND MONITORING WELL LOG: B103/MW103

Reviewed by:		Total Depth:	16 Feet	Logged By:	EPP
Date Reviewed:	8/15/12	Boring Diameter:	2 Inches	Date Drilled:	8/3/12 to 8/3/12
GW Observed at:	6 Feet	Well Stickup:	17.75"	Driller:	EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)
	S1(0.0'-2.0') - Top 5" - Brown, SAND and GRAVEL. Bottom 18" - Black SAND with coal fragments/ash (fill), moist.		S1	NM	24/23	0
	S2(2.0'-4.0') - No Recovery.		S2	NM	24/0	-
5	S3(4.0'-6.0') - 8" - Wood debris, little Sand and Gravel (fill), wet.		S3	NM	24/8	0
	S4(6.0'-8.0') - No Recovery.		S4	NM	24/0	-
	S5(8.0'-10.0') - No Recovery.		S5	NM	24/0	-
10	S6(10.0'-12.0') - No Recovery.		S6	NM	24/0	-
	S7(12.0'-14.0') - 3" - Brown SAND and GRAVEL (fill), saturated.		S7	NM	24/3	0
15	S8(14.0'-16.0') - No Recovery.		S8	NM	24/0	-
	Boring terminated at 16' bgs.					



LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1) Boring advanced using track-mounted GeoProbe 66DT direct push drill rig. 2) Sample designated with solid fill submitted for laboratory analysis. 3) Temporary well casing removed after sampling and boring backfilled with drill cuttings. 4) NA = Not Applicable; NM = Not Measured.

CLIENT:
City of Belfast

SITE:
Belfast Boatyard
41 Front Street
Belfast, ME

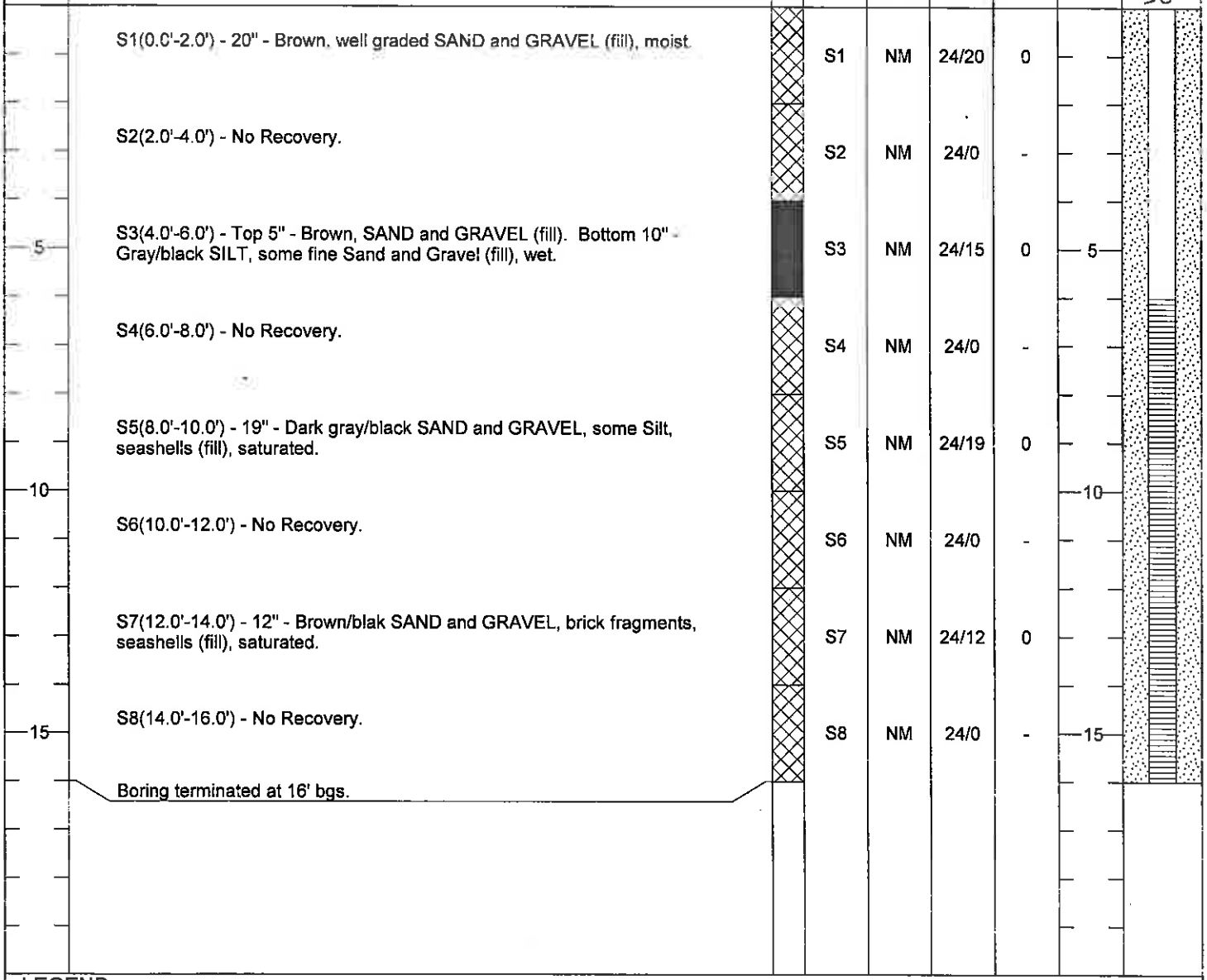
Project No.:111.06134.015

RANSOM
Consulting
Engineers
and Scientists

BORING AND MONITORING WELL LOG: B104/MW104

Reviewed by:		Total Depth:	16 Feet	Logged By:	EPP
Date Reviewed:	8/15/12	Boring Diameter:	2 Inches	Date Drilled:	8/3/12 to 8/3/12
GW Observed at:	6.8 Feet	Well Stickup:	27.50"	Driller:	EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)
	S1(0.0'-2.0') - 20" - Brown, well graded SAND and GRAVEL (fill), moist.		S1	NM	24/20	0
	S2(2.0'-4.0') - No Recovery.		S2	NM	24/0	-
5	S3(4.0'-6.0') - Top 5" - Brown, SAND and GRAVEL (fill). Bottom 10" - Gray/black SILT, some fine Sand and Gravel (fill), wet.		S3	NM	24/15	0
	S4(6.0'-8.0') - No Recovery.		S4	NM	24/0	-
	S5(8.0'-10.0') - 19" - Dark gray/black SAND and GRAVEL, some Silt, seashells (fill), saturated.		S5	NM	24/19	0
10	S6(10.0'-12.0') - No Recovery.		S6	NM	24/0	-
	S7(12.0'-14.0') - 12" - Brown/blak SAND and GRAVEL, brick fragments, seashells (fill), saturated.		S7	NM	24/12	0
15	S8(14.0'-16.0') - No Recovery.		S8	NM	24/0	-
	Boring terminated at 16' bgs.					



LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1) Boring advanced using track-mounted GeoProbe 66DT direct push drill rig. 2) Sample designated with solid fill submitted for laboratory analysis. 3) Temporary well casing removed after sampling and boring backfilled with drill cuttings. 4) NA = Not Applicable; NM = Not Measured.

CLIENT:
City of Belfast

SITE:
Belfast Boatyard
41 Front Street
Belfast, ME

Project No.:111.06134.015 | Page: 1

APPENDIX B

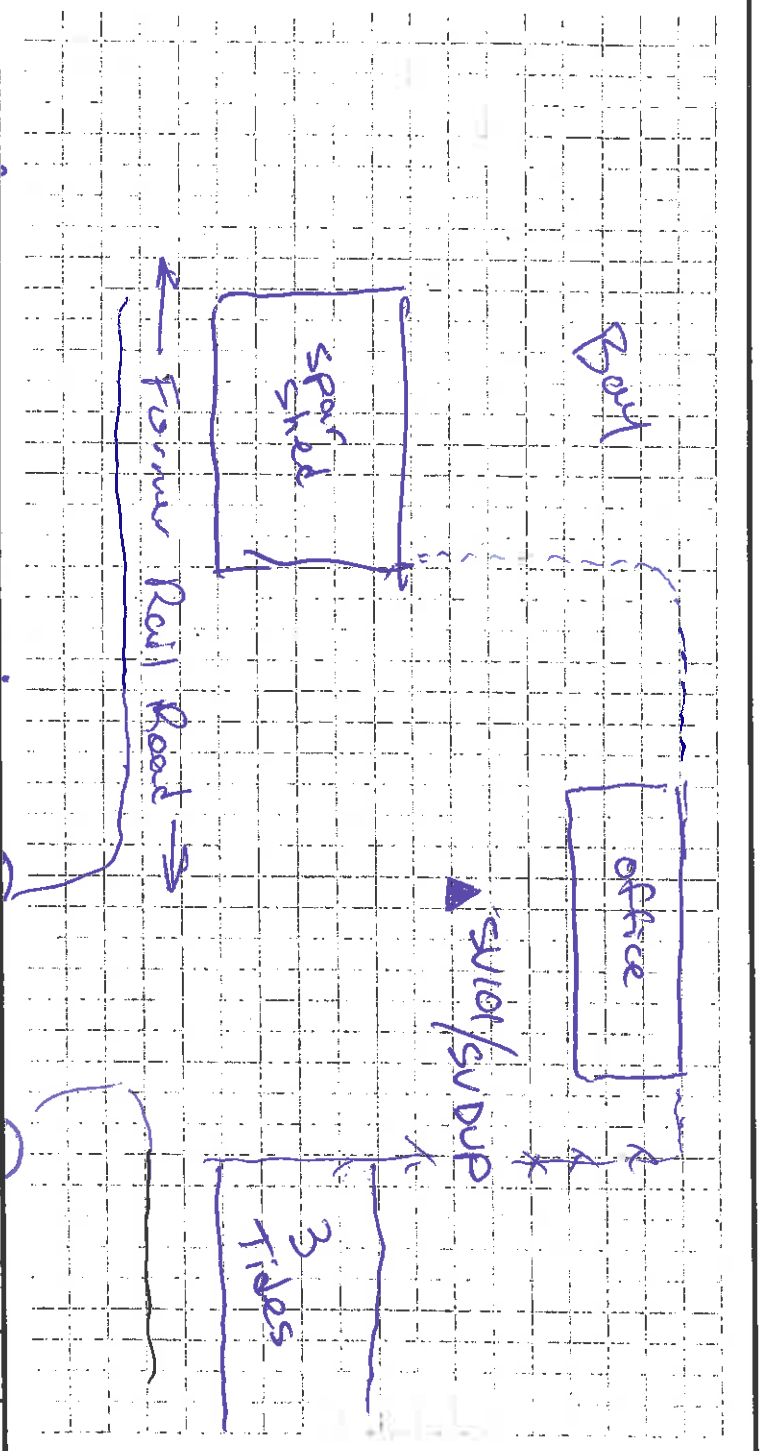
Field Data Sheets

Phase II Environmental Site Assessment
Belfast Boatyard
39 and 41 Front Street
Belfast, Maine

Soil Gas Sampling Field Sheet
Maine DEP

Site Name:	Belfast Boatyard
Location:	41 Front St.
Date:	8/3/12
Sample I.D.:	SV101/SVDUP
Sampling Personnel:	EPP
Project Manager:	Pete Sherr
Collection Device:	(Suma Cannister) (Tedlar Bag) (Niosh Tube)
PID:	0.0
O_2:	NM
CO_2:	NM
Flow rate:	78/76 mls/min.
Cannister I.D.:	667 / 882
Controller I.D.:	0399 / 0236
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	3-4'
Depth to Water:	6-7'
Suspected COCs:	(Petroleum) (Solvents)
Sampling Start Time:	1242
in/Hg Initial Vacuum:	-29.68 / -30.02
Sampling End Time:	1253
Final Vaccum:	-1.77 / -2.43
Notes:	

Sample Location Sketch



APPENDIX C

Certified Laboratory Analytical Results

Phase II Environmental Site Assessment
Belfast Boatyard
39 and 41 Front Street
Belfast, Maine

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

August 9, 2012

Mr. Peter Sherr
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

RE: Analytical Results Case Narrative
Belfast Boatyard-Front Street
Project No: 111.06134
Analytics #73485

Dear Mr. Sherr:

Enclosed please find the analytical report for samples collected from the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260B, Volatile Petroleum Hydrocarbons (VPH) using MADEP VPH Method 2004 Rev 1.1, Extractable Petroleum Hydrocarbons (EPH) using MADEP EPH Method 2004 Rev 1.1, Polychlorinated Biphenyls (PCBs) by EPA Method 8082. and selected Metals using EPA Method 6010B

.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II package has been assembled in the following order:

- Case Narrative/Non-Conformance Summary
- Sample Log Sheet - Cover Page
- VOC Form 1 Sample Data Results for Samples
  - Chromatograms
- VOC Blank Summaries & Form 3 MS/MSD and LCS Recoveries
- VPH Form I Data Sheet for Samples
  - Chromatograms
- VPH Blank Summaries & Form 3 MS/MSD (LCS) Recoveries
  - Chromatograms
- EPH Form I Data Sheet for Samples
  - Chromatograms
- EPH Blank Summaries & Form 3 MS/MSD (LCS) Recoveries
- PCB Form I Data Sheet for Samples
  - Chromatograms
- PCB Blank Summaries & Form 3 MS/MSD (LCS) Recoveries
- Metals Form I Data Sheet
- Metals Blank Summaries & Form 3 MS/MSD (LCS) Recoveries
- Chain of Custody (COC) Forms
- Sample Receipt Checklist

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No discrepancies.

Volatile Organic Compounds (VOCs) by EPA 8260B:
This narrative is specific to target analytes reported on the Form 1 data pages. Non-target (NT) analyte deviations were not addressed. The following analytes were not 'J" flagged in this report; Chloromethane, Methylene chloride, Acetone and Hexachlorobutadiene.

Bromobenzene had recovery of 77% in the initial calibration verification standard (ICV) for the calibration curve analyzed 08/07/12 (V8080712C). All other analytes were in control. Bromobenzene was not detected in any samples for this SDG and results were reported without qualification.

The continuing calibration standard (file#B91480SC) had %D greater than 20% for 1,4-Dioxane. The laboratory control samples (L808072B/L808072B2) were in control for all analytes. Results were reported without qualification.

The laboratory blank (MB08082C) had Bromomethane and Chloromethane detected. These analytes were not detected in any samples associated with this blank and results were reported without qualification.

The continuing calibration standard (file#C83186SC) had %D greater than 20% for Trichlorofluoromethane. The laboratory control samples (LS08082C/LS08082C2) had low recoveries for Chloromethane and Vinyl chloride. These anlaytes were not detected in any samples associated with this QC and results were reported without qualification.

The continuing calibration standard (file#C83211SC) had %D greater than 20% for 2,2-Dichloropropane. The laboratory control samples (LS08092C/LS08092C2) had low recoveries for Chloromethane and high recovery for Acetone. These anlaytes were not detected in any samples associated with this QC and results were reported without qualification.

Volatile Petroleum Hydrocarbons (VPH):
No results were reported below the quantitation limit for the C9-C10 Aromatic Hydrocarbon range.

The closing continuing calibration standard (file#K37601SC) had low recovery for n-Buylcyclohexane. The standard was reanalyzed with similar results. All hydrocarbon ranges were in control. Results were reported without qualification.

Extractable Petroleum Hydrocarbons (EPH):
No results for C19-C36 aliphatic range were reported below the quantitation limit for the aqueous samples due to instrument baseline rise.

Samples 73485-6, 73485-9 were analyzed at a dilution due to concentrations of target analytes that exceeded the calibration range of the instrument.

The closing continuing calibration standard for the aromatics (file# N21425) had two compounds with %D greater than the acceptance criteria. The standard was reanalyzed with all analytes in control. Results were reported without qualification.

The laboratory control sample (L080612EASE) had low recovery for C-36 alkane. The laboratory control sample duplicate (LD080612EASE) was in control for all anlaytes. Results were reported without qualification.

PCBs by EPA 8082:
No results were reported below the Quantitation Limit.

Samples 73485-2, 73485-5 and 73485-10 had interferences that prevented the determination of surrogate recoveries. Results for surrogates were reported off the column without the interferences (see form2)

Selected Metals by EPA Method 6010B:
Samples 73485-4, 73485-6, 73485-7 and samples 73485-11 thru 73485-15 required dilution due to element concentrations that exceeded the linear dynamic range of the instrument.

The Blank analyzed 08/06/12 (B080612MS2) had Copper detected. All samples associated with this blank had Copper results greater than 10X the level detected in the blank. Results were reported without qualification.

The MS analyzed on sample 73485-20 had low recoveries for Arsenic, Copper and Lead. The MSD had low recovery for Copper and Lead. All element RPDs were in control. The laboratory control sample was in control for all elements.

If you have any questions or I can be of further assistance please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

Report Number: 73485

Revision: Rev. 0

Re: Belfast Boatyard-Front Street (Project No: 111.06134)

Enclosed are the results of the analyses on your sample(s). Samples were received on 03 August 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/9/2012

analytics environmental laboratory LLC

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CLIENT: Ransom Consulting, Inc. **REPORT NUMBER: 73485** **REV: Rev. 0**

PROJECT: Belfast Boatyard-Front Street (Project No: 111.06134)

Lab Number	Sample Date	Station Location	Analysis	Comments
73485-1	08/03/12	B101-S1	EPA 8082 (PCBs only)	
	08/03/12	B101-S1	EPA 8260 Volatile Organics	
	08/03/12	B101-S1	MADEP EPH	
	08/03/12	B101-S1	Metals	
	08/03/12	B101-S1	Volatile Petroleum Hydrocarbons	
73485-2	08/03/12	B102-S5	EPA 8082 (PCBs only)	
	08/03/12	B102-S5	EPA 8260 Volatile Organics	
	08/03/12	B102-S5	MADEP EPH	
	08/03/12	B102-S5	Metals	
	08/03/12	B102-S5	Volatile Petroleum Hydrocarbons	
73485-3	08/03/12	B103-S1	EPA 8260 Volatile Organics	
	08/03/12	B103-S1	MADEP EPH	
	08/03/12	B103-S1	Metals	
	08/03/12	B103-S1	Volatile Petroleum Hydrocarbons	
73485-4	08/03/12	B104-S3	EPA 8260 Volatile Organics	
	08/03/12	B104-S3	MADEP EPH	
	08/03/12	B104-S3	Metals	
	08/03/12	B104-S3	Volatile Petroleum Hydrocarbons	
73485-5	08/03/12	SS101	EPA 8082 (PCBs only)	
	08/03/12	SS101	EPA 8260 Volatile Organics	
	08/03/12	SS101	MADEP EPH	
	08/03/12	SS101	Metals	
	08/03/12	SS101	Volatile Petroleum Hydrocarbons	
73485-6	08/03/12	SS102	EPA 8082 (PCBs only)	
	08/03/12	SS102	EPA 8260 Volatile Organics	
	08/03/12	SS102	MADEP EPH	
	08/03/12	SS102	Metals	
	08/03/12	SS102	Volatile Petroleum Hydrocarbons	
73485-7	08/03/12	SS103	EPA 8082 (PCBs only)	
	08/03/12	SS103	EPA 8260 Volatile Organics	
	08/03/12	SS103	MADEP EPH	
	08/03/12	SS103	Metals	
	08/03/12	SS103	Volatile Petroleum Hydrocarbons	
73485-8	08/03/12	SS104	EPA 8082 (PCBs only)	
	08/03/12	SS104	EPA 8260 Volatile Organics	
	08/03/12	SS104	MADEP EPH	
	08/03/12	SS104	Metals	

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CLIENT: Ransom Consulting, Inc. **REPORT NUMBER: 73485** **REV: Rev. 0**

PROJECT: Belfast Boatyard-Front Street (Project No: 111.06134)

Lab Number	Sample Date	Station Location	Analysis	Comments
	08/03/12	SS104	Volatile Petroleum Hydrocarbons	
73485-9	08/03/12	SS105	EPA 8260 Volatile Organics	
	08/03/12	SS105	MADEP EPH	
	08/03/12	SS105	Metals	
	08/03/12	SS105	Volatile Petroleum Hydrocarbons	
73485-10	08/03/12	SS10X	EPA 8082 (PCBs only)	
	08/03/12	SS10X	EPA 8260 Volatile Organics	
	08/03/12	SS10X	MADEP EPH	
	08/03/12	SS10X	Metals	
	08/03/12	SS10X	Volatile Petroleum Hydrocarbons	
73485-11	08/03/12	MW101	EPA 8260 Volatile Organics	
	08/03/12	MW101	MADEP EPH	
	08/03/12	MW101	Metals	
	08/03/12	MW101	Volatile Petroleum Hydrocarbons	
73485-12	08/03/12	MW102	EPA 8260 Volatile Organics	
	08/03/12	MW102	MADEP EPH	
	08/03/12	MW102	Metals	
	08/03/12	MW102	Volatile Petroleum Hydrocarbons	
73485-13	08/03/12	MW103	EPA 8260 Volatile Organics	
	08/03/12	MW103	MADEP EPH	
	08/03/12	MW103	Metals	
	08/03/12	MW103	Volatile Petroleum Hydrocarbons	
73485-14	08/03/12	MW104	EPA 8260 Volatile Organics	
	08/03/12	MW104	MADEP EPH	
	08/03/12	MW104	Metals	
	08/03/12	MW104	Volatile Petroleum Hydrocarbons	
73485-15	08/03/12	MWX	EPA 8260 Volatile Organics	
	08/03/12	MWX	MADEP EPH	
	08/03/12	MWX	Metals	
	08/03/12	MWX	Volatile Petroleum Hydrocarbons	
73485-16	08/03/12	Trip Blank	EPA 8260 Volatile Organics	
73485-17	08/03/12	Trip Blank	EPA 8260 Volatile Organics	
73485-18	08/03/12	BK-1	MADEP EPH	
	08/03/12	BK-1	Metals	
73485-19	08/03/12	BK-2	Metals	
73485-20	08/03/12	BK-3	Electronic Data Deliverable	
	08/03/12	BK-3	Metals	

Surrogate Compound Limits

Matrix: / Units:	Aqueous % Recovery	Solid % Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

VOLATILE
DATA SUMMARIES

analytics environmental laboratory LLC

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Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 10, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: B101-S1

SAMPLE DATA

Lab Sample ID: 73485-1 RR
Matrix: Solid
Percent Solid: 95
Dilution Factor: 94
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	94	U	1,3-Dichloropropane	94	U
Bromobenzene	94	U	cis-1,3-Dichloropropene	94	U
Bromochloromethane	94	U	trans-1,3-Dichloropropene	94	U
Bromodichloromethane	71	U	2,2-Dichloropropane	94	U
Bromoform	71	U	1,1-Dichloropropene	94	U
Bromomethane	94	U	Ethylbenzene	94	U
n-butylbenzene	94	U	Hexachlorobutadiene	94	U
sec-butylbenzene	94	U	Isopropylbenzene	94	U
tert-butylbenzene	94	U	p-isopropyltoluene	94	U
Carbon Tetrachloride	94	U	Methylene Chloride	472	U
Chlorobenzene	94	U	Methyl-tert-butyl ether (MTBE)	71	U
Chloroethane	94	U	Naphthalene	94	U
Chloroform	71	U	n-Propylbenzene	94	U
Chloromethane	94	U	Styrene	94	U
2-Chlorotoluene	94	U	1,1,1,2-Tetrachloroethane	94	U
4-Chlorotoluene	94	U	1,1,2,2-Tetrachloroethane	71	U
Dibromochloromethane	71	U	Tetrachloroethene	94	U
1,2-Dibromo-3-chloropropane	94	U	Toluene	94	U
1,2-Dibromoethane	71	U	1,2,3-Trichlorobenzene	94	U
Dibromomethane	94	U	1,2,4-Trichlorobenzene	94	U
1,2-Dichlorobenzene	94	U	1,1,1-Trichloroethane	94	U
1,3-Dichlorobenzene	94	U	1,1,2-Trichloroethane	71	U
1,4-Dichlorobenzene	94	U	Trichloroethene	94	U
Dichlorodifluoromethane	94	U	Trichlorofluoromethane	94	U
1,1-Dichloroethane	94	U	1,2,3-Trichloropropane	94	U
1,2-Dichloroethane	71	U	1,2,4-Trimethylbenzene	94	U
1,1-Dichloroethene	71	U	1,3,5-Trimethylbenzene	94	U
cis-1,2-Dichloroethene	94	U	Vinyl Chloride	94	U
trans-1,2-Dichloroethene	94	U	o-Xylene	94	U
1,2-Dichloropropane	71	U	m,p-Xylene	94	U
Acetone	944	U	Diethyl ether	94	U
Carbon Disulfide	94	U	2-Hexanone	944	U
Tetrahydrofuran	472	U	Methyl isobutyl ketone	944	U
Methyl ethyl ketone	944	U	Di-isopropyl ether (DIPE)	94	U
t-Butyl alcohol (TBA)	1890	U	Ethyl t-butyl ether (ETBE)	94	U
t-Amyl methyl ether (TAME)	94	U	1,3,5-Trichlorobenzene	94	U
			1,4-Dioxane	2830	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	78 %	d8-Toluene	86 %	Bromofluorobenzene	84 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

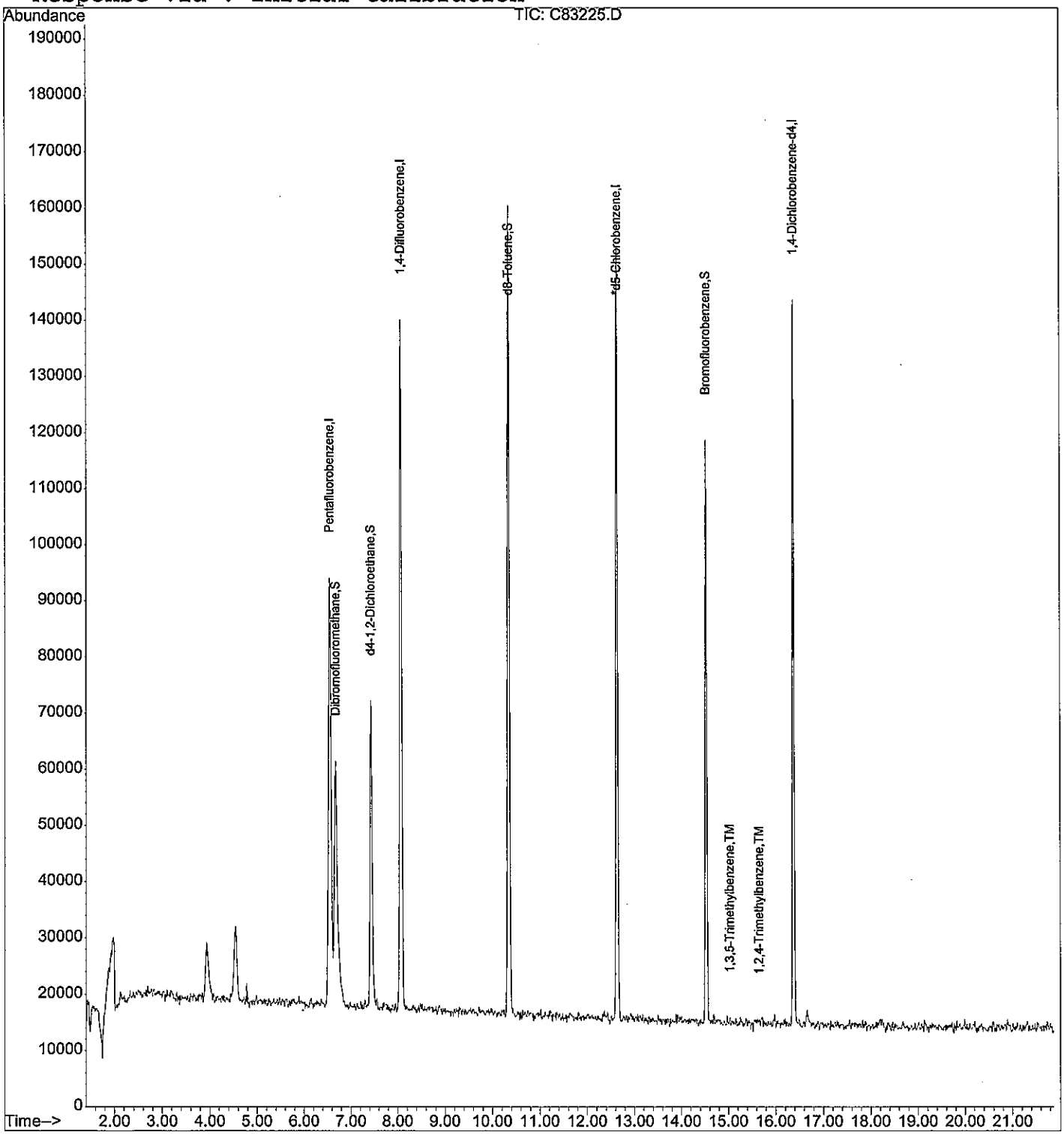
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83225.D Vial: 1
Acq On : 9 Aug 2012 4:16 pm Operator: MT
Sample : 73485-1,RR Inst : Instr_C
Misc : 50,11.18,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 7:49 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 08:24:42 2012
Response via : Initial Calibration



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Mr. Peter Sherr
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400 Commercial Street Suite 404
Portland, ME 04101

August 10, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: B102-S5

Lab Sample ID: 73485-2 RR
Matrix: Solid
Percent Solid: 76
Dilution Factor: 161
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	161	U	1,3-Dichloropropane	161	U
Bromobenzene	161	U	cis-1,3-Dichloropropene	161	U
Bromochloromethane	161	U	trans-1,3-Dichloropropene	161	U
Bromodichloromethane	121	U	2,2-Dichloropropane	161	U
Bromoform	121	U	1,1-Dichloropropene	161	U
Bromomethane	161	U	Ethylbenzene	161	U
n-butylbenzene	161	U	Hexachlorobutadiene	161	U
sec-butylbenzene	161	U	Isopropylbenzene	161	U
tert-butylbenzene	161	U	p-isopropyltoluene	161	U
Carbon Tetrachloride	161	U	Methylene Chloride	806	U
Chlorobenzene	161	U	Methyl-tert-butyl ether (MTBE)	121	U
Chloroethane	161	U	Naphthalene	161	U
Chloroform	121	U	n-Propylbenzene	161	U
Chloromethane	161	U	Styrene	161	U
2-Chlorotoluene	161	U	1,1,1,2-Tetrachloroethane	161	U
4-Chlorotoluene	161	U	1,1,2,2-Tetrachloroethane	121	U
Dibromochloromethane	121	U	Tetrachloroethene	161	**283**
1,2-Dibromo-3-chloropropane	161	U	Toluene	161	U
1,2-Dibromoethane	121	U	1,2,3-Trichlorobenzene	161	U
Dibromomethane	161	U	1,2,4-Trichlorobenzene	161	U
1,2-Dichlorobenzene	161	U	1,1,1-Trichloroethane	161	U
1,3-Dichlorobenzene	161	U	1,1,2-Trichloroethane	121	U
1,4-Dichlorobenzene	161	U	Trichloroethene	161	**165**
Dichlorodifluoromethane	161	U	Trichlorofluoromethane	161	U
1,1-Dichloroethane	161	U	1,2,3-Trichloropropane	161	U
1,2-Dichloroethane	121	U	1,2,4-Trimethylbenzene	161	U
1,1-Dichloroethene	121	U	1,3,5-Trimethylbenzene	161	U
cis-1,2-Dichloroethene	161	U	Vinyl Chloride	161	U
trans-1,2-Dichloroethene	161	U	o-Xylene	161	U
1,2-Dichloropropane	121	U	m,p-Xylene	161	U
Acetone	1610	U	Diethyl ether	161	U
Carbon Disulfide	161	U	2-Hexanone	1610	U
Tetrahydrofuran	806	U	Methyl isobutyl ketone	1610	U
Methyl ethyl ketone	1610	U	Di-isopropyl ether (DIPE)	161	U
t-Butyl alcohol (TBA)	3220	U	Ethyl t-butyl ether (ETBE)	161	U
t-Amyl methyl ether (TAME)	161	U	1,3,5-Trichlorobenzene	161	U
			1,4-Dioxane	4840	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	68 * %	d8-Toluene	75 %	Bromofluorobenzene	76 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.
*Surrogate recovery outside of laboratory acceptance criteria.

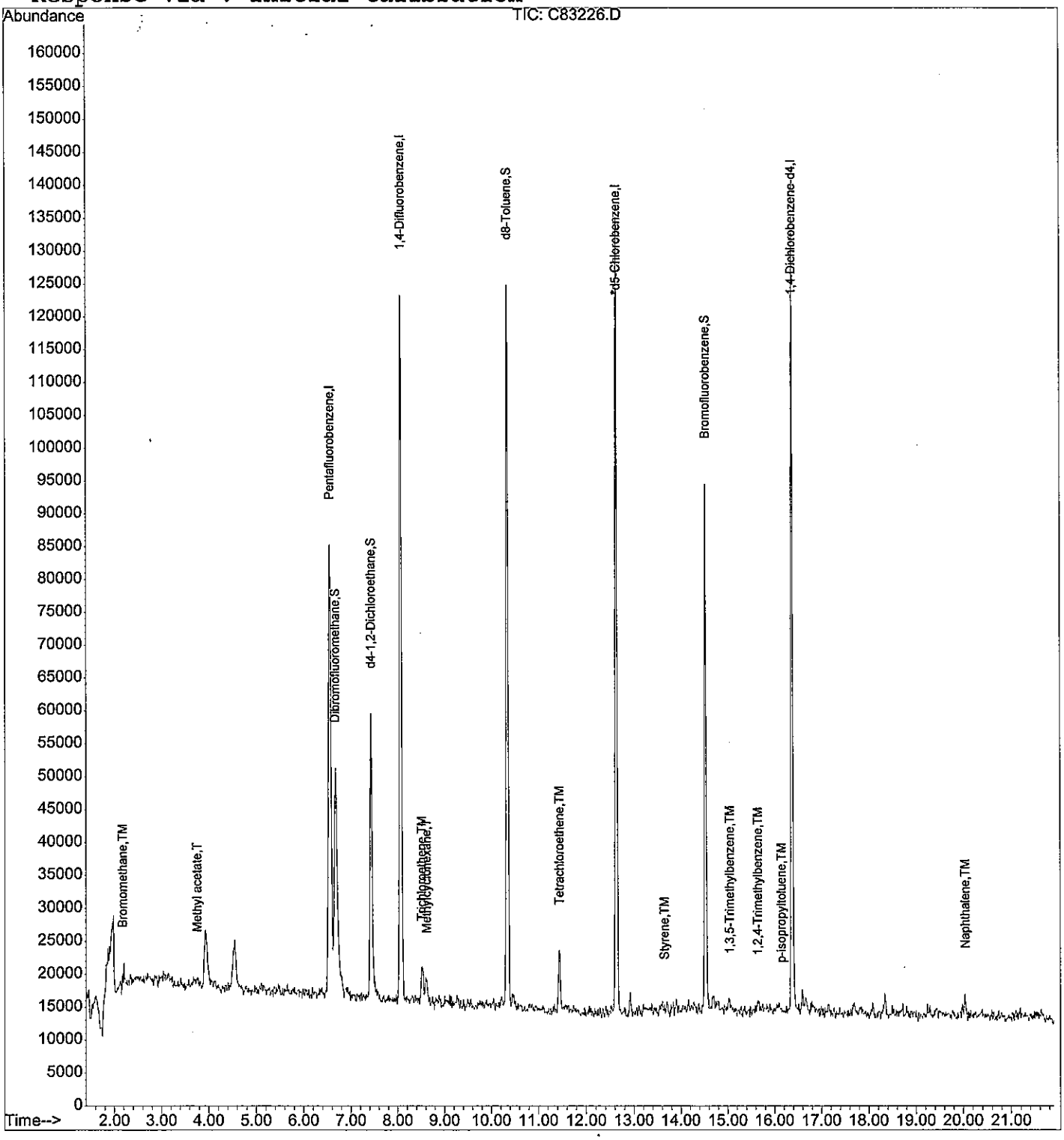
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83226.D Vial: 2
Acq On : 9 Aug 2012 4:42 pm Operator: MT
Sample : 73485-2,RR Inst : Instr_C
Misc : 50,8.18,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 8:37 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Fri Aug 10 08:37:23 2012
Response via : Initial Calibration



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Portland, ME 04101

August 10, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: B103-S1

SAMPLE DATA

Lab Sample ID: 73485-3 RR
Matrix: Solid
Percent Solid: 97
Dilution Factor: 106
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	106	U	1,3-Dichloropropane	106	U
Bromobenzene	106	U	cis-1,3-Dichloropropene	106	U
Bromochloromethane	106	U	trans-1,3-Dichloropropene	106	U
Bromodichloromethane	80	U	2,2-Dichloropropane	106	U
Bromoform	80	U	1,1-Dichloropropene	106	U
Bromomethane	106	U	Ethylbenzene	106	U
n-butylbenzene	106	U	Hexachlorobutadiene	106	U
sec-butylbenzene	106	U	Isopropylbenzene	106	U
tert-butylbenzene	106	U	p-isopropyltoluene	106	U
Carbon Tetrachloride	106	U	Methylene Chloride	530	U
Chlorobenzene	106	U	Methyl-tert-butyl ether (MTBE)	80	U
Chloroethane	106	U	Naphthalene	106	U
Chloroform	80	U	n-Propylbenzene	106	U
Chloromethane	106	U	Styrene	106	U
2-Chlorotoluene	106	U	1,1,1,2-Tetrachloroethane	106	U
4-Chlorotoluene	106	U	1,1,2,2-Tetrachloroethane	80	U
Dibromochloromethane	80	U	Tetrachloroethene	106	U
1,2-Dibromo-3-chloropropane	106	U	Toluene	106	U
1,2-Dibromoethane	80	U	1,2,3-Trichlorobenzene	106	U
Dibromomethane	106	U	1,2,4-Trichlorobenzene	106	U
1,2-Dichlorobenzene	106	U	1,1,1-Trichloroethane	106	U
1,3-Dichlorobenzene	106	U	1,1,2-Trichloroethane	80	U
1,4-Dichlorobenzene	106	U	Trichloroethene	106	U
Dichlorodifluoromethane	106	U	Trichlorofluoromethane	106	U
1,1-Dichloroethane	106	U	1,2,3-Trichloropropane	106	U
1,2-Dichloroethane	80	U	1,2,4-Trimethylbenzene	106	U
1,1-Dichloroethene	80	U	1,3,5-Trimethylbenzene	106	U
cis-1,2-Dichloroethene	106	U	Vinyl Chloride	106	U
trans-1,2-Dichloroethene	106	U	o-Xylene	106	U
1,2-Dichloropropane	80	U	m,p-Xylene	106	U
Acetone	1060	U	Diethyl ether	106	U
Carbon Disulfide	106	U	2-Hexanone	1060	U
Tetrahydrofuran	530	U	Methyl isobutyl ketone	1060	U
Methyl ethyl ketone	1060	U	Di-isopropyl ether (DIPE)	106	U
t-Butyl alcohol (TBA)	2120	U	Ethyl t-butyl ether (ETBE)	106	U
t-Amyl methyl ether (TAME)	106	U	1,3,5-Trichlorobenzene	106	U
			1,4-Dioxane	3180	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	80 %	d8-Toluene	86 %	Bromofluorobenzene	84 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

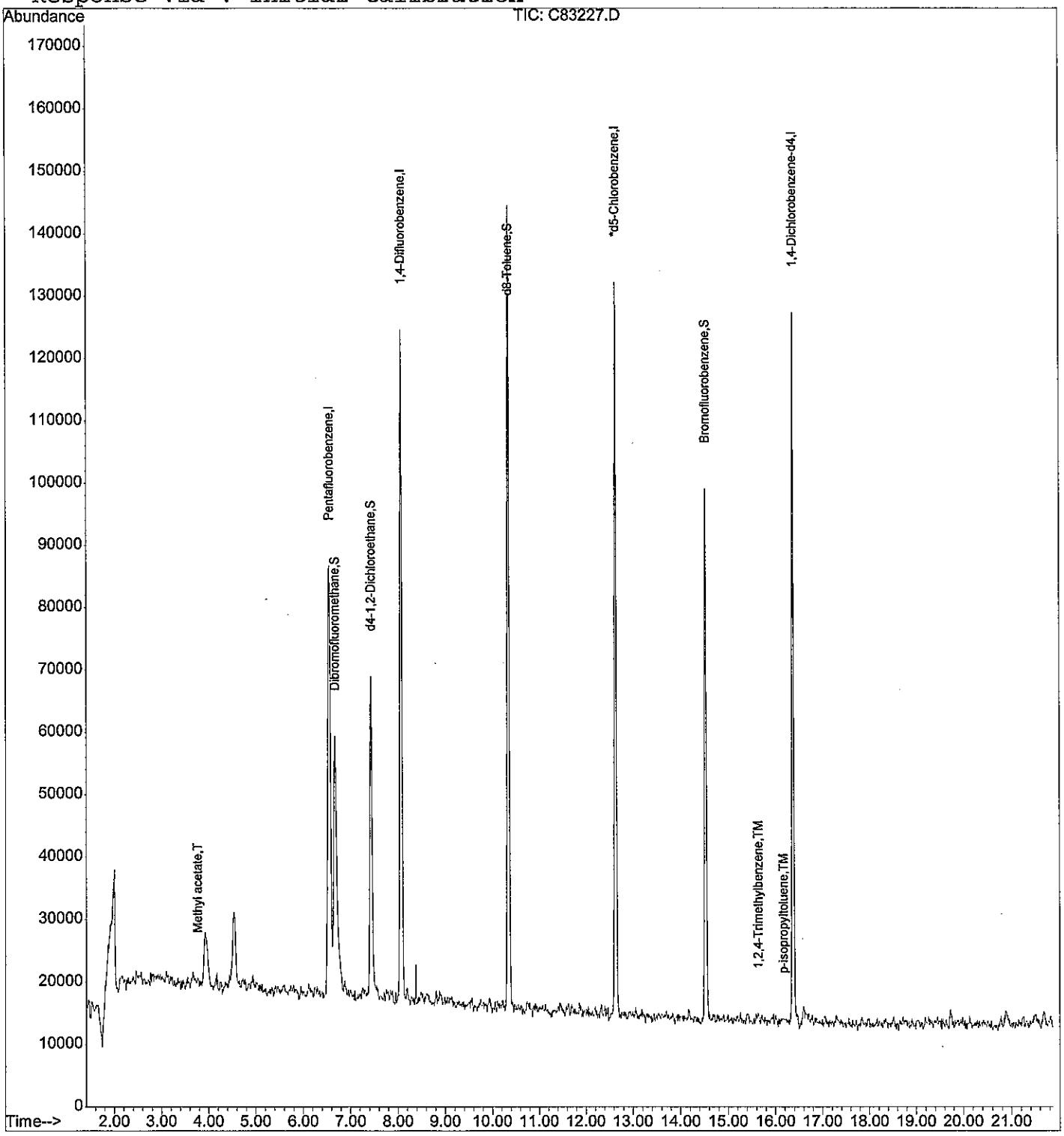
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83227.D Vial: 3
Acq On : 9 Aug 2012 5:08 pm Operator: MT
Sample : 73485-3,RR Inst : Instr_C
Misc : 50,9.76,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 7:49 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 08:24:42 2012
Response via : Initial Calibration



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Mr. Peter Sherr
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400 Commercial Street Suite 404
Portland, ME 04101

August 10, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: B104-S3

SAMPLE DATA

Lab Sample ID: 73485-4 RR
Matrix: Solid
Percent Solid: 88
Dilution Factor: 109
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	109	U	1,3-Dichloropropane	109	U
Bromobenzene	109	U	cis-1,3-Dichloropropene	109	U
Bromochloromethane	109	U	trans-1,3-Dichloropropene	109	U
Bromodichloromethane	82	U	2,2-Dichloropropane	109	U
Bromoform	82	U	1,1-Dichloropropene	109	U
Bromomethane	109	U	Ethylbenzene	109	U
n-butylbenzene	109	U	Hexachlorobutadiene	109	U
sec-butylbenzene	109	U	Isopropylbenzene	109	U
tert-butylbenzene	109	U	p-isopropyltoluene	109	U
Carbon Tetrachloride	109	U	Methylene Chloride	543	U
Chlorobenzene	109	U	Methyl-tert-butyl ether (MTBE)	82	U
Chloroethane	109	U	Naphthalene	109	**9030**
Chloroform	82	U	n-Propylbenzene	109	U
Chloromethane	109	U	Styrene	109	U
2-Chlorotoluene	109	U	1,1,1,2-Tetrachloroethane	109	U
4-Chlorotoluene	109	U	1,1,2,2-Tetrachloroethane	82	U
Dibromochloromethane	82	U	Tetrachloroethene	109	U
1,2-Dibromo-3-chloropropane	109	U	Toluene	109	U
1,2-Dibromoethane	82	U	1,2,3-Trichlorobenzene	109	U
Dibromomethane	109	U	1,2,4-Trichlorobenzene	109	U
1,2-Dichlorobenzene	109	U	1,1,1-Trichloroethane	109	U
1,3-Dichlorobenzene	109	U	1,1,2-Trichloroethane	82	U
1,4-Dichlorobenzene	109	U	Trichloroethene	109	U
Dichlorodifluoromethane	109	U	Trichlorofluoromethane	109	U
1,1-Dichloroethane	109	U	1,2,3-Trichloropropane	109	U
1,2-Dichloroethane	82	U	1,2,4-Trimethylbenzene	109	U
1,1-Dichloroethene	82	U	1,3,5-Trimethylbenzene	109	U
cis-1,2-Dichloroethene	109	U	Vinyl Chloride	109	U
trans-1,2-Dichloroethene	109	U	o-Xylene	109	U
1,2-Dichloropropane	82	U	m,p-Xylene	109	U
Acetone	1090	U	Diethyl ether	109	U
Carbon Disulfide	109	U	2-Hexanone	1090	U
Tetrahydrofuran	543	U	Methyl isobutyl ketone	1090	U
Methyl ethyl ketone	1090	U	Di-isopropyl ether (DIPE)	109	U
t-Butyl alcohol (TBA)	2170	U	Ethyl t-butyl ether (ETBE)	109	U
t-Amyl methyl ether (TAME)	109	U	1,3,5-Trichlorobenzene	109	U
			1,4-Dioxane	3260	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	73 %	d8-Toluene	81 %	Bromofluorobenzene	81 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

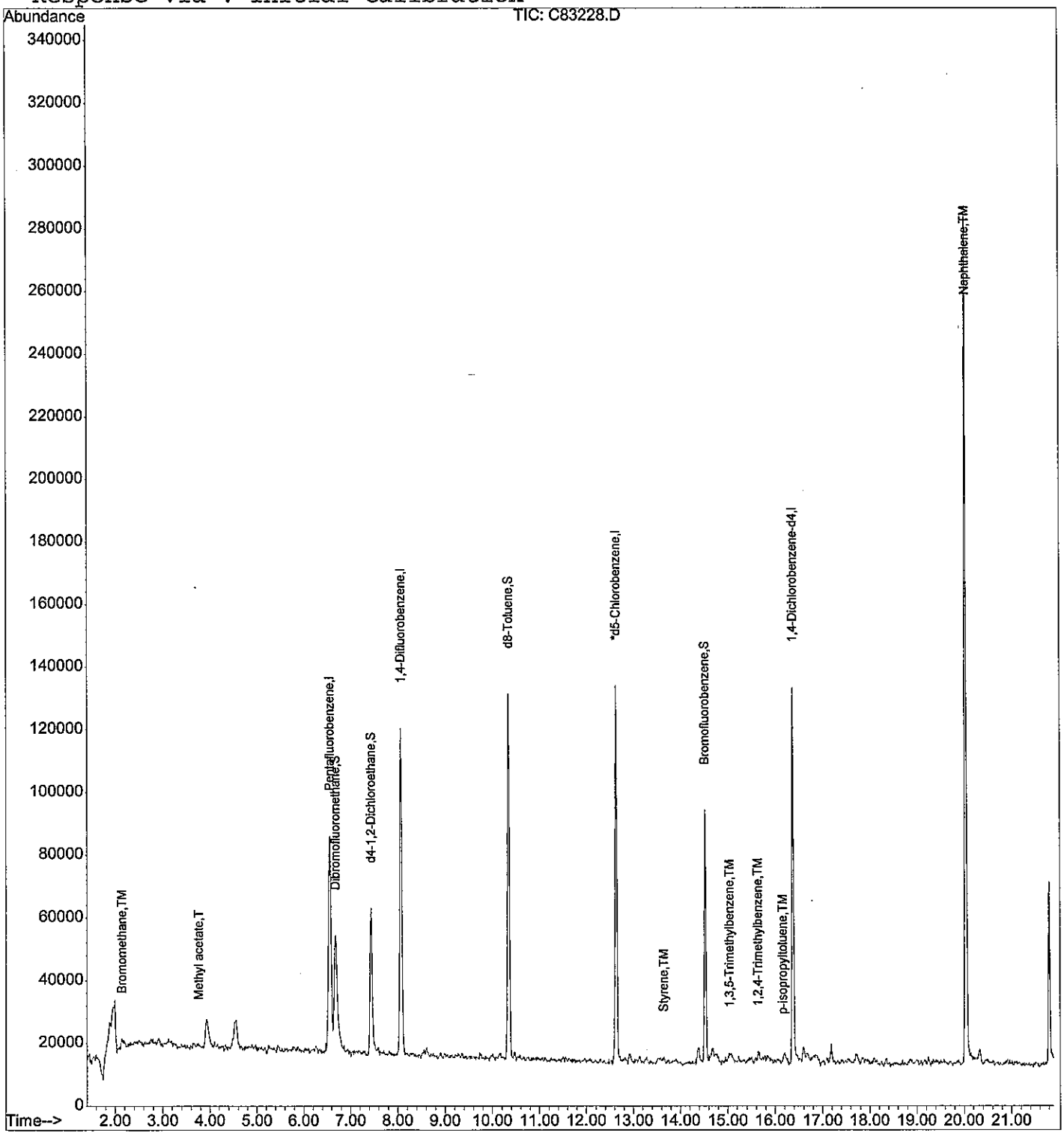
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83228.D Vial: 4
Acq On : 9 Aug 2012 5:41 pm Operator: MT
Sample : 73485-4,RR Inst : Instr_C
Misc : 50,10.48,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 7:49 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 08:24:42 2012
Response via : Initial Calibration



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August 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS101

Lab Sample ID: 73485-5
Matrix: Solid
Percent Solid: 94
Dilution Factor: 107
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	107	U	1,3-Dichloropropane	107	U
Bromobenzene	107	U	cis-1,3-Dichloropropene	107	U
Bromochloromethane	107	U	trans-1,3-Dichloropropene	107	U
Bromodichloromethane	80	U	2,2-Dichloropropane	107	U
Bromoform	80	U	1,1-Dichloropropene	107	U
Bromomethane	107	U	Ethylbenzene	107	U
n-butylbenzene	107	U	Hexachlorobutadiene	107	U
sec-butylbenzene	107	U	Isopropylbenzene	107	U
tert-butylbenzene	107	U	p-isopropyltoluene	107	U
Carbon Tetrachloride	107	U	Methylene Chloride	534	U
Chlorobenzene	107	U	Methyl-tert-butyl ether (MTBE)	80	U
Chloroethane	107	U	Naphthalene	107	U
Chloroform	80	U	n-Propylbenzene	107	U
Chloromethane	107	U	Styrene	107	U
2-Chlorotoluene	107	U	1,1,1,2-Tetrachloroethane	107	U
4-Chlorotoluene	107	U	1,1,2,2-Tetrachloroethane	80	U
Dibromochloromethane	80	U	Tetrachloroethene	107	U
1,2-Dibromo-3-chloropropane	107	U	Toluene	107	U
1,2-Dibromoethane	80	U	1,2,3-Trichlorobenzene	107	U
Dibromomethane	107	U	1,2,4-Trichlorobenzene	107	U
1,2-Dichlorobenzene	107	U	1,1,1-Trichloroethane	107	U
1,3-Dichlorobenzene	107	U	1,1,2-Trichloroethane	80	U
1,4-Dichlorobenzene	107	U	Trichloroethene	107	U
Dichlorodifluoromethane	107	U	Trichlorofluoromethane	107	U
1,1-Dichloroethane	107	U	1,2,3-Trichloropropane	107	U
1,2-Dichloroethane	80	U	1,2,4-Trimethylbenzene	107	U
1,1-Dichloroethene	80	U	1,3,5-Trimethylbenzene	107	U
cis-1,2-Dichloroethene	107	U	Vinyl Chloride	107	U
trans-1,2-Dichloroethene	107	U	o-Xylene	107	U
1,2-Dichloropropane	80	U	m,p-Xylene	107	U
Acetone	1070	U	Diethyl ether	107	U
Carbon Disulfide	107	U	2-Hexanone	1070	U
Tetrahydrofuran	534	U	Methyl isobutyl ketone	1070	U
Methyl ethyl ketone	1070	U	Di-isopropyl ether (DIPE)	107	U
t-Butyl alcohol (TBA)	2140	U	Ethyl t-butyl ether (ETBE)	107	U
t-Amyl methyl ether (TAME)	107	U	1,3,5-Trichlorobenzene	107	U
			1,4-Dioxane	3200	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	79 %	d8-Toluene	87 %	Bromofluorobenzene	89 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

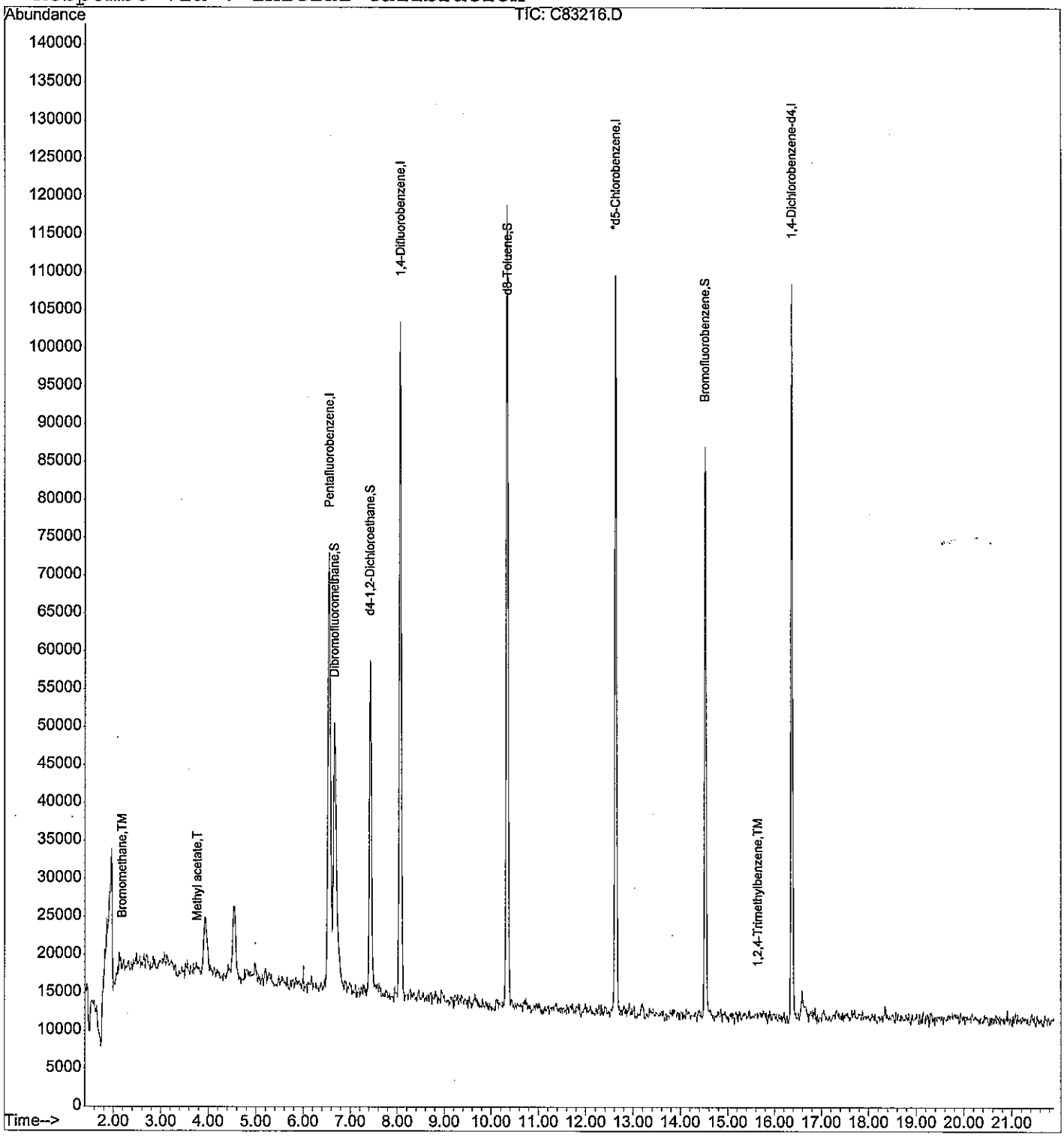
8260 2009 + Dioxane:Res(73);Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83216.D Vial: 7
Acq On : 9 Aug 2012 11:33 am Operator: MT
Sample : 73485-5 Inst : Instr_C
Misc : 50,9.92,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 9 11:39 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 14:18:16 2012
Response via : Initial Calibration



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August 10, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS102

SAMPLE DATA

Lab Sample ID: 73485-6 RR
Matrix: Solid
Percent Solid: 91
Dilution Factor: 109
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	109	U	1,3-Dichloropropane	109	U
Bromobenzene	109	U	cis-1,3-Dichloropropene	109	U
Bromochloromethane	109	U	trans-1,3-Dichloropropene	109	U
Bromodichloromethane	82	U	2,2-Dichloropropane	109	U
Bromoform	82	U	1,1-Dichloropropene	109	U
Bromomethane	109	U	Ethylbenzene	109	U
n-butylbenzene	109	U	Hexachlorobutadiene	109	U
sec-butylbenzene	109	U	Isopropylbenzene	109	U
tert-butylbenzene	109	U	p-isopropyltoluene	109	U
Carbon Tetrachloride	109	U	Methylene Chloride	545	U
Chlorobenzene	109	U	Methyl-tert-butyl ether (MTBE)	82	U
Chloroethane	109	U	Naphthalene	109	U
Chloroform	82	U	n-Propylbenzene	109	U
Chloromethane	109	U	Styrene	109	U
2-Chlorotoluene	109	U	1,1,1,2-Tetrachloroethane	109	U
4-Chlorotoluene	109	U	1,1,2,2-Tetrachloroethane	82	U
Dibromochloromethane	82	U	Tetrachloroethene	109	U
1,2-Dibromo-3-chloropropane	109	U	Toluene	109	U
1,2-Dibromoethane	82	U	1,2,3-Trichlorobenzene	109	U
Dibromomethane	109	U	1,2,4-Trichlorobenzene	109	U
1,2-Dichlorobenzene	109	U	1,1,1-Trichloroethane	109	U
1,3-Dichlorobenzene	109	U	1,1,2-Trichloroethane	82	U
1,4-Dichlorobenzene	109	U	Trichloroethene	109	U
Dichlorodifluoromethane	109	U	Trichlorofluoromethane	109	U
1,1-Dichloroethane	109	U	1,2,3-Trichloropropane	109	U
1,2-Dichloroethane	82	U	1,2,4-Trimethylbenzene	109	U
1,1-Dichloroethene	82	U	1,3,5-Trimethylbenzene	109	U
cis-1,2-Dichloroethene	109	U	Vinyl Chloride	109	U
trans-1,2-Dichloroethene	109	U	o-Xylene	109	U
1,2-Dichloropropane	82	U	m,p-Xylene	109	U
Acetone	1090	U	Diethyl ether	109	U
Carbon Disulfide	109	U	2-Hexanone	1090	U
Tetrahydrofuran	545	U	Methyl isobutyl ketone	1090	U
Methyl ethyl ketone	1090	U	Di-isopropyl ether (DIPE)	109	U
t-Butyl alcohol (TBA)	2180	U	Ethyl t-butyl ether (ETBE)	109	U
t-Amyl methyl ether (TAME)	109	U	1,3,5-Trichlorobenzene	109	U
			1,4-Dioxane	3270	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	77 %	d8-Toluene	84 %	Bromofluorobenzene	80 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

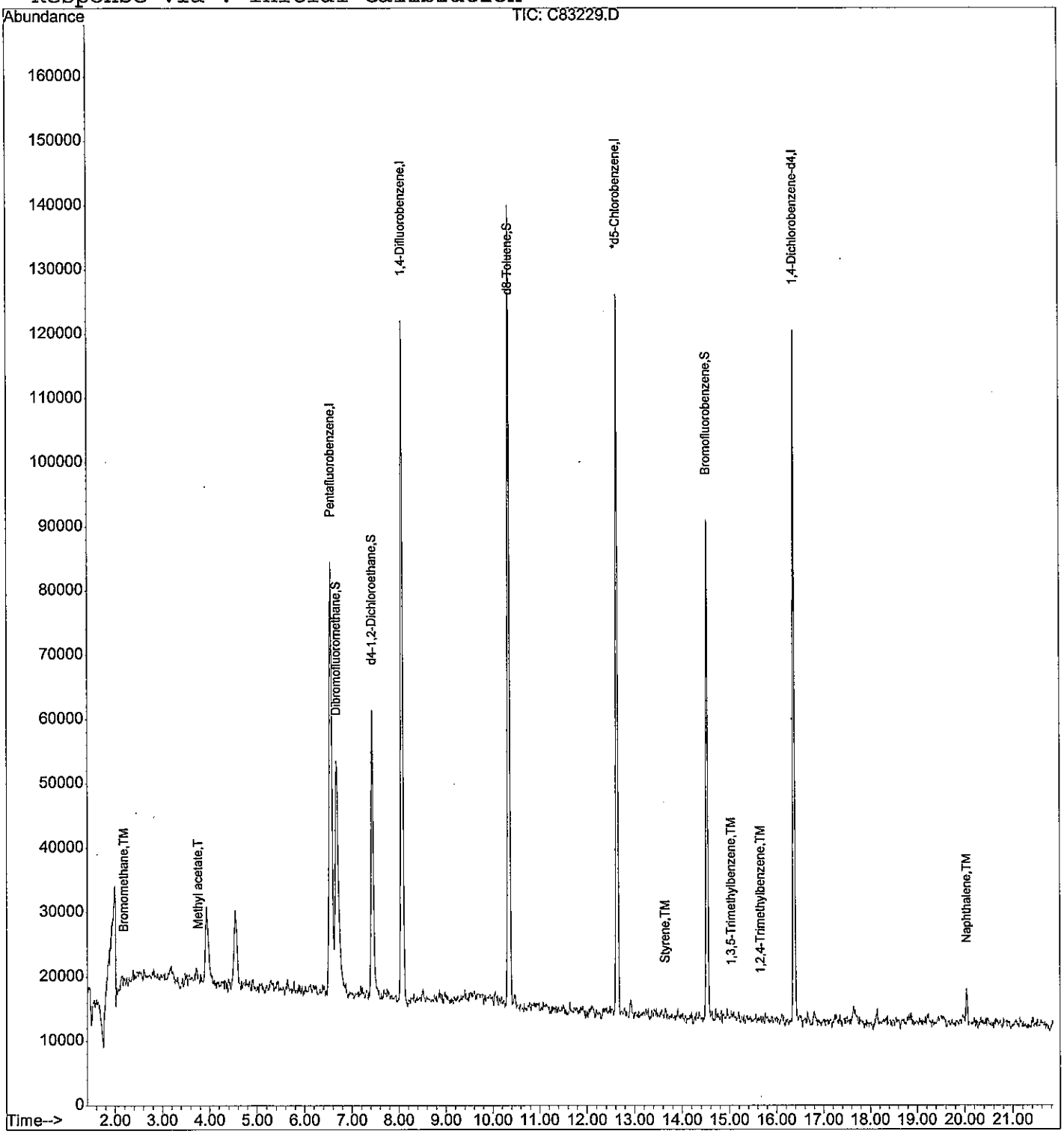
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83229.D Vial: 5
Acq On : 9 Aug 2012 6:17 pm Operator: MT
Sample : 73485-6,RR Inst : Instr_C
Misc : 50,14.08,SOIL,,14ML F.V. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 7:49 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 08:24:42 2012
Response via : Initial Calibration



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August 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS103

Lab Sample ID: 73485-7
Matrix: Solid
Percent Solid: 95
Dilution Factor: 99
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	99	U	1,3-Dichloropropane	99	U
Bromobenzene	99	U	cis-1,3-Dichloropropene	99	U
Bromochloromethane	99	U	trans-1,3-Dichloropropene	99	U
Bromodichloromethane	74	U	2,2-Dichloropropane	99	U
Bromoform	74	U	1,1-Dichloropropene	99	U
Bromomethane	99	U	Ethylbenzene	99	U
n-butylbenzene	99	U	Hexachlorobutadiene	99	U
sec-butylbenzene	99	U	Isopropylbenzene	99	U
tert-butylbenzene	99	U	p-isopropyltoluene	99	U
Carbon Tetrachloride	99	U	Methylene Chloride	496	U
Chlorobenzene	99	U	Methyl-tert-butyl ether (MTBE)	74	U
Chloroethane	99	U	Naphthalene	99	U
Chloroform	74	U	n-Propylbenzene	99	U
Chloromethane	99	U	Styrene	99	71 J
2-Chlorotoluene	99	U	1,1,1,2-Tetrachloroethane	99	U
4-Chlorotoluene	99	U	1,1,2,2-Tetrachloroethane	74	U
Dibromochloromethane	74	U	Tetrachloroethene	99	U
1,2-Dibromo-3-chloropropane	99	U	Toluene	99	U
1,2-Dibromoethane	74	U	1,2,3-Trichlorobenzene	99	U
Dibromomethane	99	U	1,2,4-Trichlorobenzene	99	U
1,2-Dichlorobenzene	99	U	1,1,1-Trichloroethane	99	U
1,3-Dichlorobenzene	99	U	1,1,2-Trichloroethane	74	U
1,4-Dichlorobenzene	99	U	Trichloroethene	99	U
Dichlorodifluoromethane	99	U	Trichlorofluoromethane	99	U
1,1-Dichloroethane	99	U	1,2,3-Trichloropropane	99	U
1,2-Dichloroethane	74	U	1,2,4-Trimethylbenzene	99	U
1,1-Dichloroethene	74	U	1,3,5-Trimethylbenzene	99	U
cis-1,2-Dichloroethene	99	U	Vinyl Chloride	99	U
trans-1,2-Dichloroethene	99	U	o-Xylene	99	U
1,2-Dichloropropane	74	U	m,p-Xylene	99	U
Acetone	991	U	Diethyl ether	99	U
Carbon Disulfide	99	U	2-Hexanone	991	U
Tetrahydrofuran	496	U	Methyl isobutyl ketone	991	U
Methyl ethyl ketone	991	U	Di-isopropyl ether (DIPE)	99	U
t-Butyl alcohol (TBA)	1980	U	Ethyl t-butyl ether (ETBE)	99	U
t-Amyl methyl ether (TAME)	99	U	1,3,5-Trichlorobenzene	99	U
			1,4-Dioxane	2970	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	79	%	d8-Toluene	87	%	Bromofluorobenzene	87 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

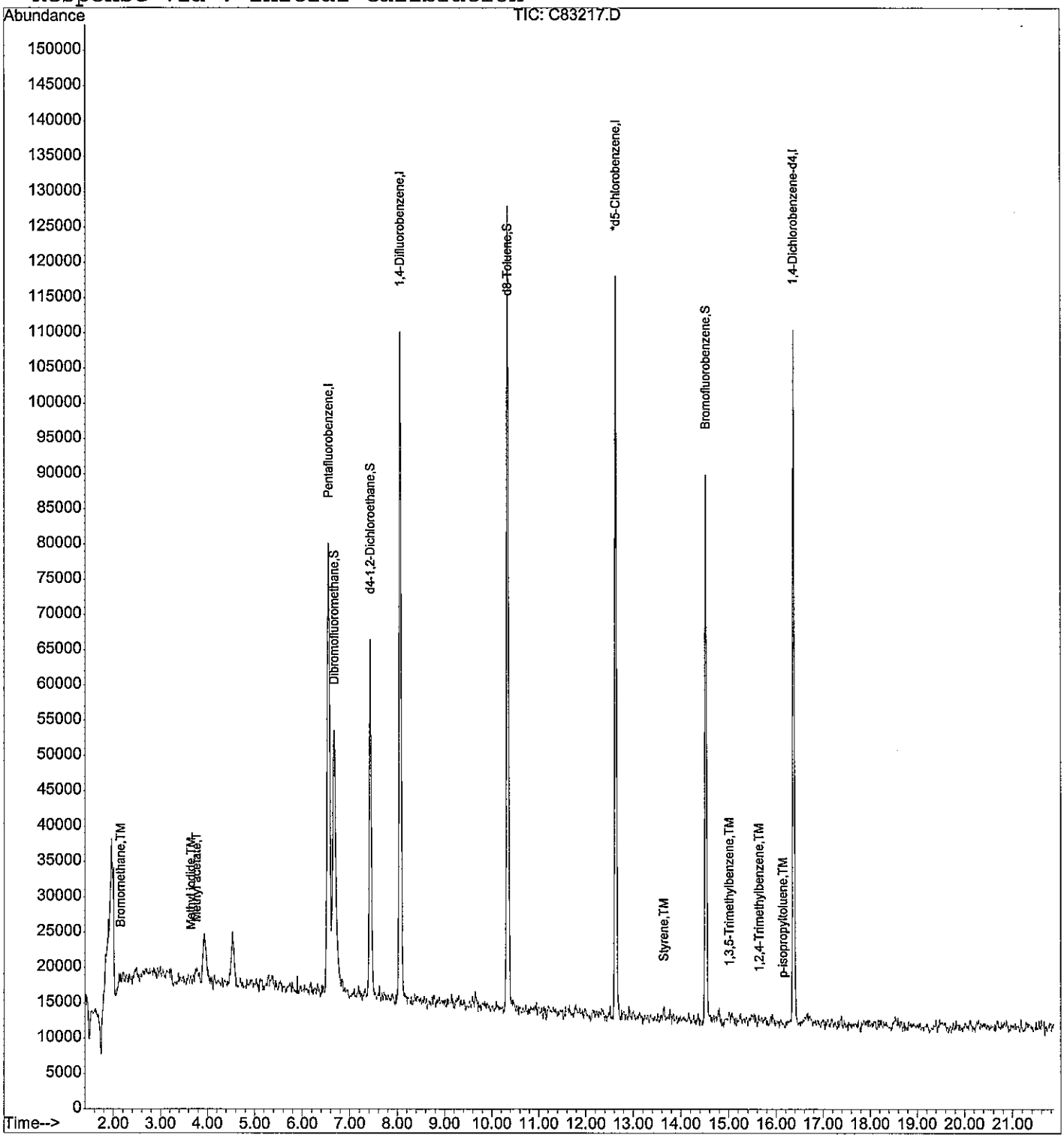
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83217.D Vial: 8
Acq On : 9 Aug 2012 12:12 pm Operator: MT
Sample : 73485-7 Inst : Instr_C
Misc : 50,16.92,SOIL,,16ML F.V. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 9 12:12 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 14:18:16 2012
Response via : Initial Calibration



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August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS104

SAMPLE DATA

Lab Sample ID: 73485-8
Matrix: Solid
Percent Solid: 94
Dilution Factor: 104
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/08/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	104	U	1,3-Dichloropropane	104	U
Bromobenzene	104	U	cis-1,3-Dichloropropene	104	U
Bromochloromethane	104	U	trans-1,3-Dichloropropene	104	U
Bromodichloromethane	78	U	2,2-Dichloropropane	104	U
Bromoform	78	U	1,1-Dichloropropene	104	U
Bromomethane	104	U	Ethylbenzene	104	U
n-butylbenzene	104	U	Hexachlorobutadiene	104	U
sec-butylbenzene	104	U	Isopropylbenzene	104	U
tert-butylbenzene	104	U	p-isopropyltoluene	104	U
Carbon Tetrachloride	104	U	Methylene Chloride	519	U
Chlorobenzene	104	U	Methyl-tert-butyl ether (MTBE)	78	U
Chloroethane	104	U	Naphthalene	104	U
Chloroform	78	U	n-Propylbenzene	104	U
Chloromethane	104	U	Styrene	104	U
2-Chlorotoluene	104	U	1,1,1,2-Tetrachloroethane	104	U
4-Chlorotoluene	104	U	1,1,2,2-Tetrachloroethane	78	U
Dibromochloromethane	78	U	Tetrachloroethene	104	U
1,2-Dibromo-3-chloropropane	104	U	Toluene	104	U
1,2-Dibromoethane	78	U	1,2,3-Trichlorobenzene	104	U
Dibromomethane	104	U	1,2,4-Trichlorobenzene	104	U
1,2-Dichlorobenzene	104	U	1,1,1-Trichloroethane	104	U
1,3-Dichlorobenzene	104	U	1,1,2-Trichloroethane	78	U
1,4-Dichlorobenzene	104	U	Trichloroethene	104	U
Dichlorodifluoromethane	104	U	Trichlorofluoromethane	104	U
1,1-Dichloroethane	104	U	1,2,3-Trichloropropane	104	U
1,2-Dichloroethane	78	U	1,2,4-Trimethylbenzene	104	U
1,1-Dichloroethene	78	U	1,3,5-Trimethylbenzene	104	U
cis-1,2-Dichloroethene	104	U	Vinyl Chloride	104	U
trans-1,2-Dichloroethene	104	U	o-Xylene	104	U
1,2-Dichloropropane	78	U	m,p-Xylene	104	U
Acetone	1040	U	Diethyl ether	104	U
Carbon Disulfide	104	U	2-Hexanone	1040	U
Tetrahydrofuran	519	U	Methyl isobutyl ketone	1040	U
Methyl ethyl ketone	1040	U	Di-isopropyl ether (DIPE)	104	U
t-Butyl alcohol (TBA)	2080	U	Ethyl t-butyl ether (ETBE)	104	U
t-Amyl methyl ether (TAME)	104	U	1,3,5-Trichlorobenzene	104	U
			1,4-Dioxane	3110	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	86 %	d8-Toluene	88 %	Bromofluorobenzene	83 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

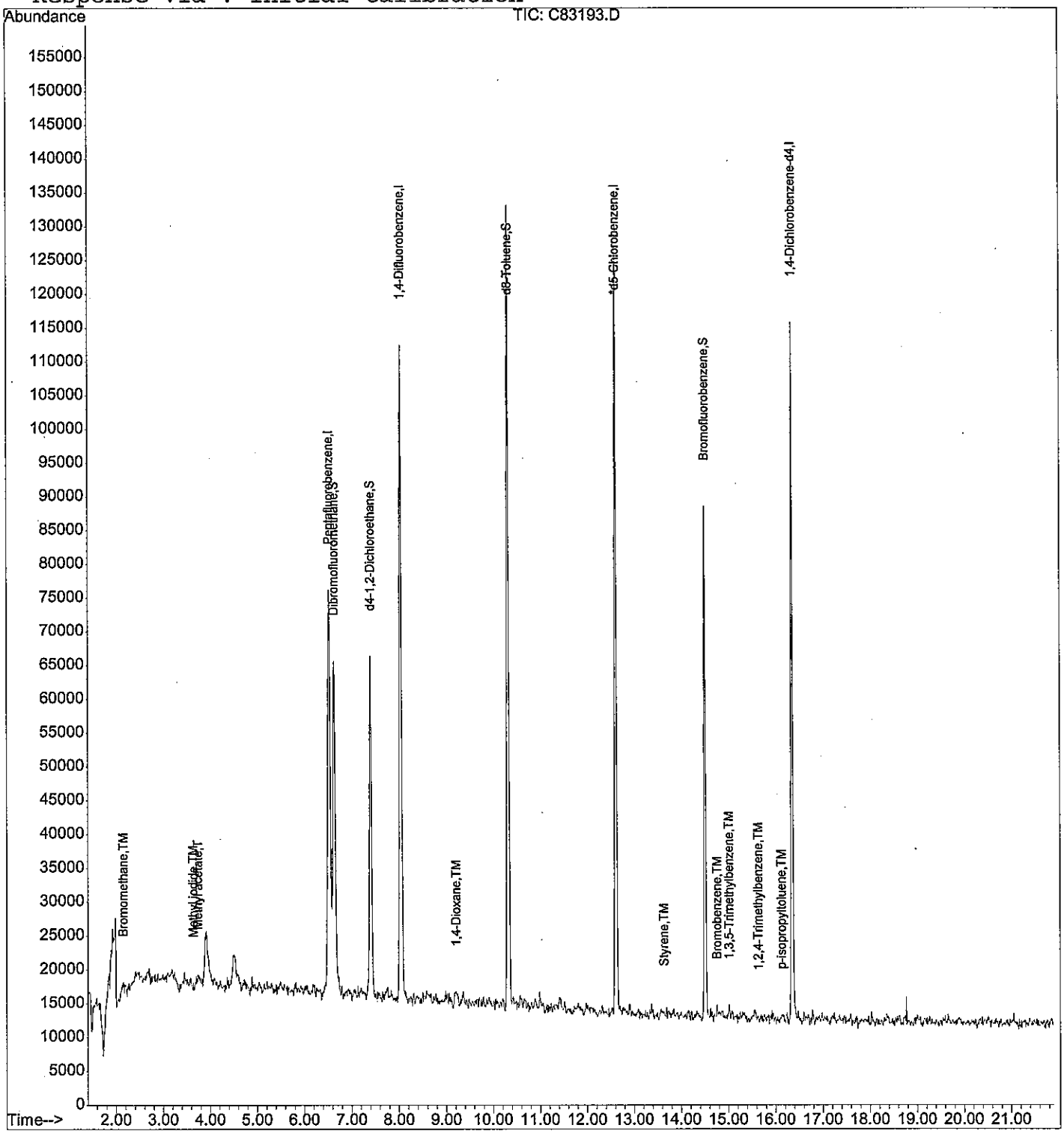
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080812-C\C83193.D Vial: 8
Acq On : 8 Aug 2012 1:44 pm Operator: MT
Sample : 73485-8 Inst : Instr_C
Misc : 50,12.28,SOIL,,12ML F.V. MT Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 9 7:12 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 14:18:16 2012
Response via : Initial Calibration



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Mr. Peter Sherr
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August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS105

SAMPLE DATA

Lab Sample ID: 73485-9
Matrix: Solid
Percent Solid: 86
Dilution Factor: 98
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/08/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	98	U	1,3-Dichloropropane	98	U
Bromobenzene	98	U	cis-1,3-Dichloropropene	98	U
Bromochloromethane	98	U	trans-1,3-Dichloropropene	98	U
Bromodichloromethane	74	U	2,2-Dichloropropane	98	U
Bromoform	74	U	1,1-Dichloropropene	98	U
Bromomethane	98	U	Ethylbenzene	98	U
n-butylbenzene	98	U	Hexachlorobutadiene	98	U
sec-butylbenzene	98	U	Isopropylbenzene	98	U
tert-butylbenzene	98	U	p-isopropyltoluene	98	U
Carbon Tetrachloride	98	U	Methylene Chloride	490	U
Chlorobenzene	98	U	Methyl-tert-butyl ether (MTBE)	74	U
Chloroethane	98	U	Naphthalene	98	**202**
Chloroform	74	U	n-Propylbenzene	98	U
Chloromethane	98	U	Styrene	98	U
2-Chlorotoluene	98	U	1,1,1,2-Tetrachloroethane	98	U
4-Chlorotoluene	98	U	1,1,2,2-Tetrachloroethane	74	U
Dibromochloromethane	74	U	Tetrachloroethene	98	U
1,2-Dibromo-3-chloropropane	98	U	Toluene	98	U
1,2-Dibromoethane	74	U	1,2,3-Trichlorobenzene	98	U
Dibromomethane	98	U	1,2,4-Trichlorobenzene	98	U
1,2-Dichlorobenzene	98	U	1,1,1-Trichloroethane	98	U
1,3-Dichlorobenzene	98	U	1,1,2-Trichloroethane	74	U
1,4-Dichlorobenzene	98	U	Trichloroethene	98	U
Dichlorodifluoromethane	98	U	Trichlorofluoromethane	98	U
1,1-Dichloroethane	98	U	1,2,3-Trichloropropane	98	U
1,2-Dichloroethane	74	U	1,2,4-Trimethylbenzene	98	U
1,1-Dichloroethene	74	U	1,3,5-Trimethylbenzene	98	U
cis-1,2-Dichloroethene	98	U	Vinyl Chloride	98	U
trans-1,2-Dichloroethene	98	U	o-Xylene	98	U
1,2-Dichloropropane	74	U	m,p-Xylene	98	U
Acetone	980	U	Diethyl ether	98	U
Carbon Disulfide	98	U	2-Hexanone	980	U
Tetrahydrofuran	490	U	Methyl isobutyl ketone	980	U
Methyl ethyl ketone	980	U	Di-isopropyl ether (DIPE)	98	U
t-Butyl alcohol (TBA)	1960	U	Ethyl t-butyl ether (ETBE)	98	U
t-Amyl methyl ether (TAME)	98	U	1,3,5-Trichlorobenzene	98	U
			1,4-Dioxane	2940	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	78 %	d8-Toluene	79 %	Bromofluorobenzene	75 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

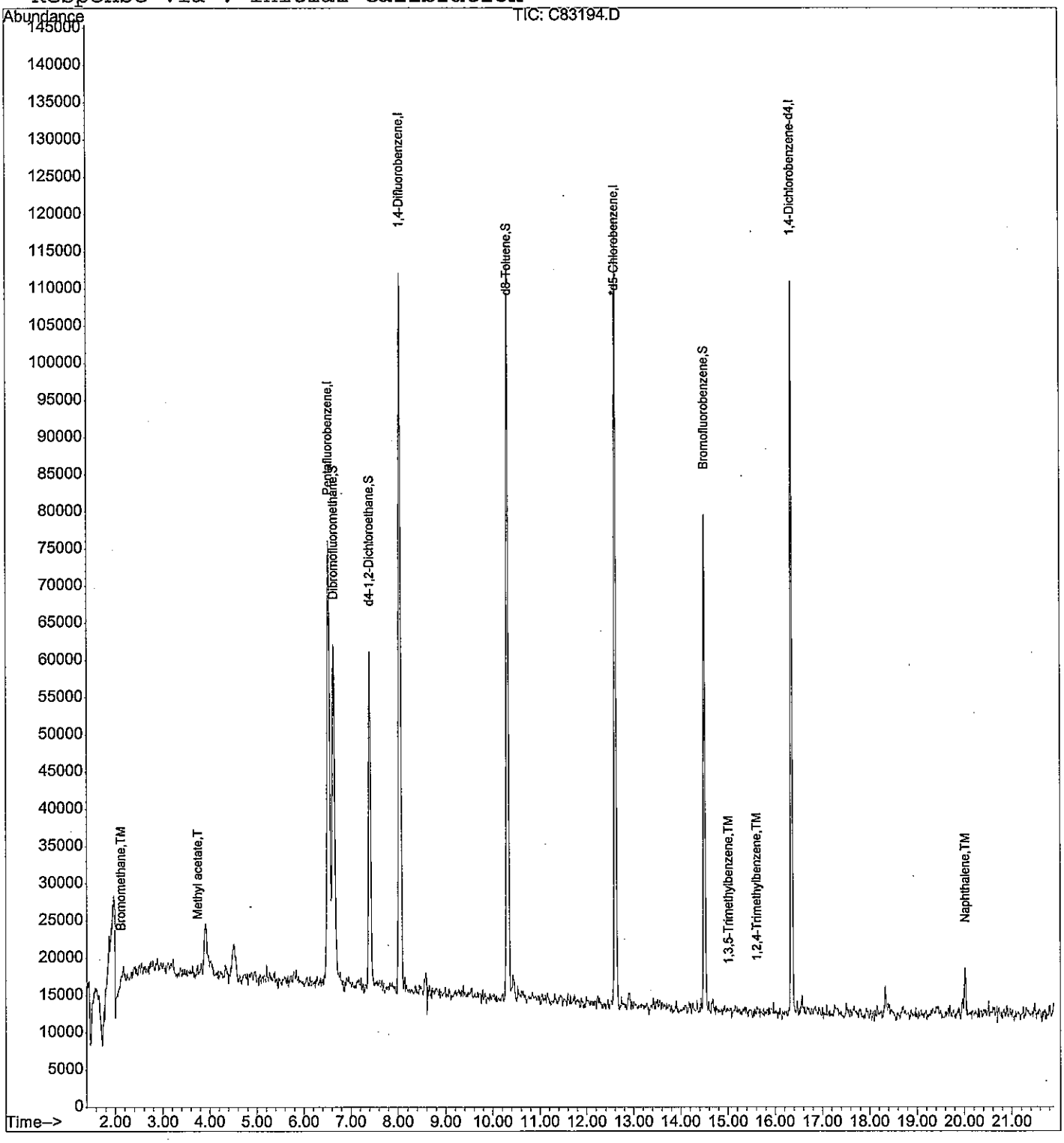
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080812-C\C83194.D Vial: 10
Acq On : 8 Aug 2012 2:32 pm Operator: MT
Sample : 73485-9 Inst : Instr_C
Misc : 50,11.86,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 9 7:12 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 14:18:16 2012
Response via : Initial Calibration



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August 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS10X

Lab Sample ID: 73485-10
Matrix: Solid
Percent Solid: 94
Dilution Factor: 99
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/08/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	99	U	1,3-Dichloropropane	99	U
Bromobenzene	99	U	cis-1,3-Dichloropropene	99	U
Bromochloromethane	99	U	trans-1,3-Dichloropropene	99	U
Bromodichloromethane	74	U	2,2-Dichloropropane	99	U
Bromoform	74	U	1,1-Dichloropropene	99	U
Bromomethane	99	U	Ethylbenzene	99	U
n-butylbenzene	99	U	Hexachlorobutadiene	99	U
sec-butylbenzene	99	U	Isopropylbenzene	99	U
tert-butylbenzene	99	U	p-isopropyltoluene	99	U
Carbon Tetrachloride	99	U	Methylene Chloride	494	U
Chlorobenzene	99	U	Methyl-tert-butyl ether (MTBE)	74	U
Chloroethane	99	U	Naphthalene	99	U
Chloroform	74	U	n-Propylbenzene	99	U
Chloromethane	99	U	Styrene	99	U
2-Chlorotoluene	99	U	1,1,1,2-Tetrachloroethane	99	U
4-Chlorotoluene	99	U	1,1,2,2-Tetrachloroethane	74	U
Dibromochloromethane	74	U	Tetrachloroethene	99	U
1,2-Dibromo-3-chloropropane	99	U	Toluene	99	U
1,2-Dibromoethane	74	U	1,2,3-Trichlorobenzene	99	U
Dibromomethane	99	U	1,2,4-Trichlorobenzene	99	U
1,2-Dichlorobenzene	99	U	1,1,1-Trichloroethane	99	U
1,3-Dichlorobenzene	99	U	1,1,2-Trichloroethane	74	U
1,4-Dichlorobenzene	99	U	Trichloroethene	99	U
Dichlorodifluoromethane	99	U	Trichlorofluoromethane	99	U
1,1-Dichloroethane	99	U	1,2,3-Trichloropropane	99	U
1,2-Dichloroethane	74	U	1,2,4-Trimethylbenzene	99	U
1,1-Dichloroethene	74	U	1,3,5-Trimethylbenzene	99	U
cis-1,2-Dichloroethene	99	U	Vinyl Chloride	99	U
trans-1,2-Dichloroethene	99	U	o-Xylene	99	U
1,2-Dichloropropane	74	U	m,p-Xylene	99	U
Acetone	988	U	Diethyl ether	99	U
Carbon Disulfide	99	U	2-Hexanone	988	U
Tetrahydrofuran	494	U	Methyl isobutyl ketone	988	U
Methyl ethyl ketone	988	U	Di-isopropyl ether (DIPE)	99	U
t-Butyl alcohol (TBA)	1980	U	Ethyl t-butyl ether (ETBE)	99	U
t-Amyl methyl ether (TAME)	99	U	1,3,5-Trichlorobenzene	99	U
			1,4-Dioxane	2970	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	86 %	d8-Toluene	86 %	Bromofluorobenzene	85 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

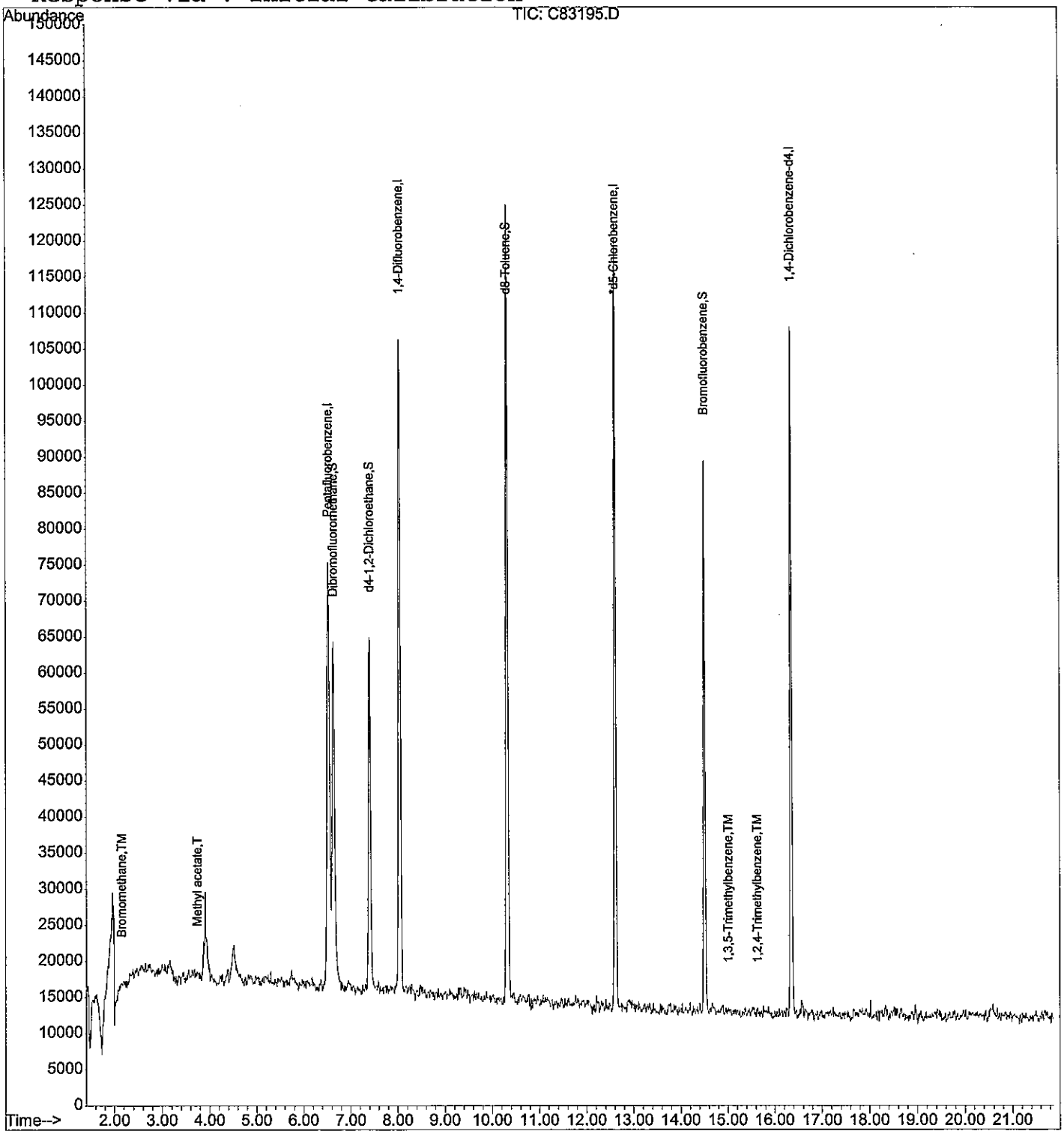
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080812-C\C83195.D Vial: 11
Acq On : 8 Aug 2012 2:51 pm Operator: MT
Sample : 73485-10 Inst : Instr_C
Misc : 50,12.91,SOIL,,12ML F.V. MT Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 9 7:12 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 14:18:16 2012
Response via : Initial Calibration



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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: MW101

SAMPLE DATA

Lab Sample ID: 73485-11
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	108	%	d8-Toluene	99	%	Bromofluorobenzene	100 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

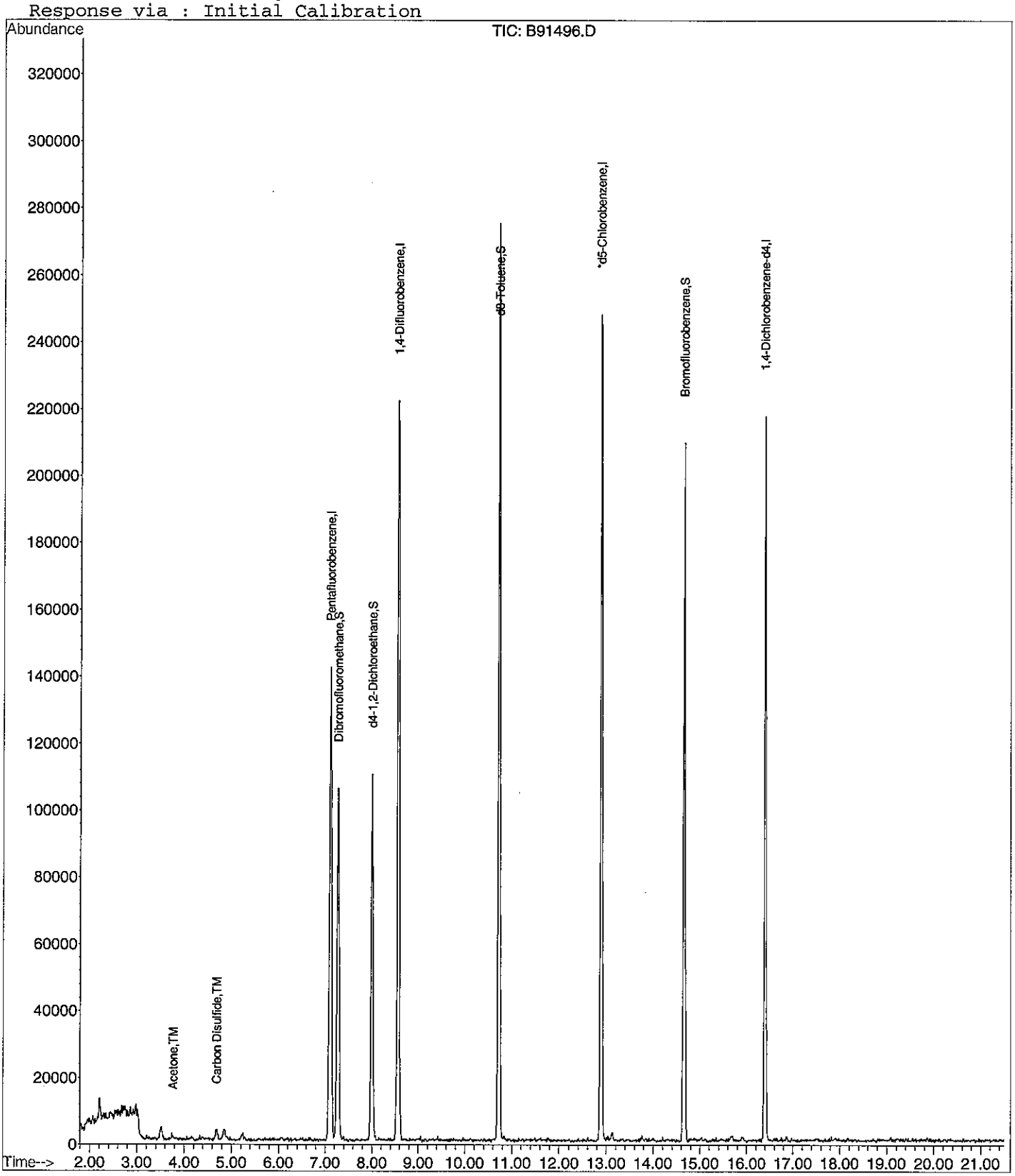
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080712-B\B91496.D Vial: 19
Acq On : 7 Aug 2012 7:19 pm Operator: MT
Sample : 73485-11 Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 9:25 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 09:23:43 2012
Response via : Initial Calibration



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August 7, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: MW102

SAMPLE DATA

Lab Sample ID: 73485-12
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/06/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	111	%	d8-Toluene	99	%	Bromofluorobenzene	100	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

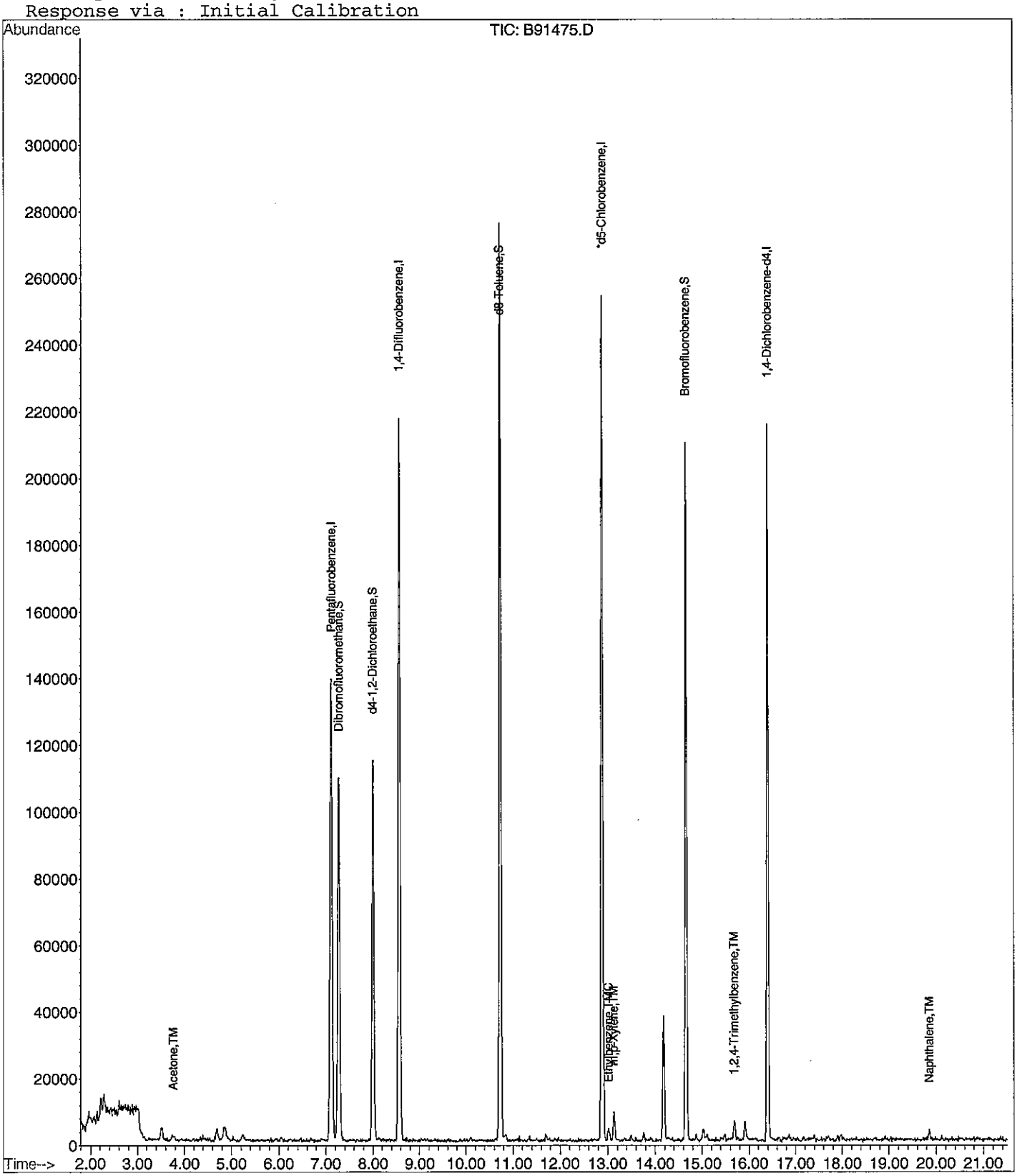
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080612-B\B91475.D Vial: 29
Acq On : 6 Aug 2012 11:47 pm Operator: MT
Sample : 73485-12 Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 8:27 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Tue Aug 07 08:23:04 2012
Response via : Initial Calibration



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August 7, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: MW103

SAMPLE DATA

Lab Sample ID: 73485-13
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	106	%	d8-Toluene	97	%	Bromofluorobenzene	95 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

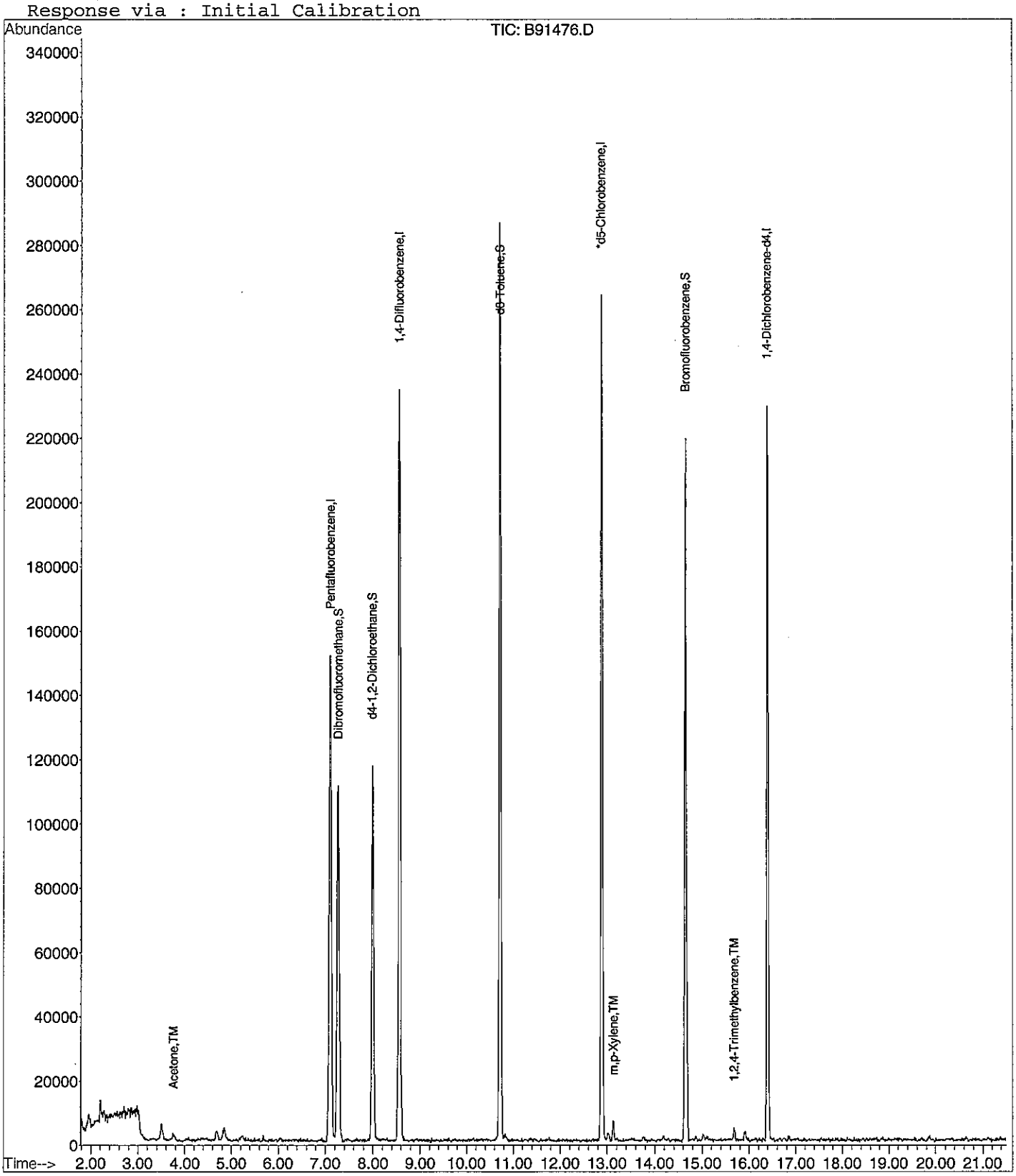
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080612-B\B91476.D Vial: 30
Acq On : 7 Aug 2012 12:17 am Operator: MT
Sample : 73485-13 Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 8:27 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Tue Aug 07 08:23:04 2012
Response via : Initial Calibration



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Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: MW104

SAMPLE DATA

Lab Sample ID: 73485-14
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	106	%	d8-Toluene	95	%	Bromofluorobenzene	100 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

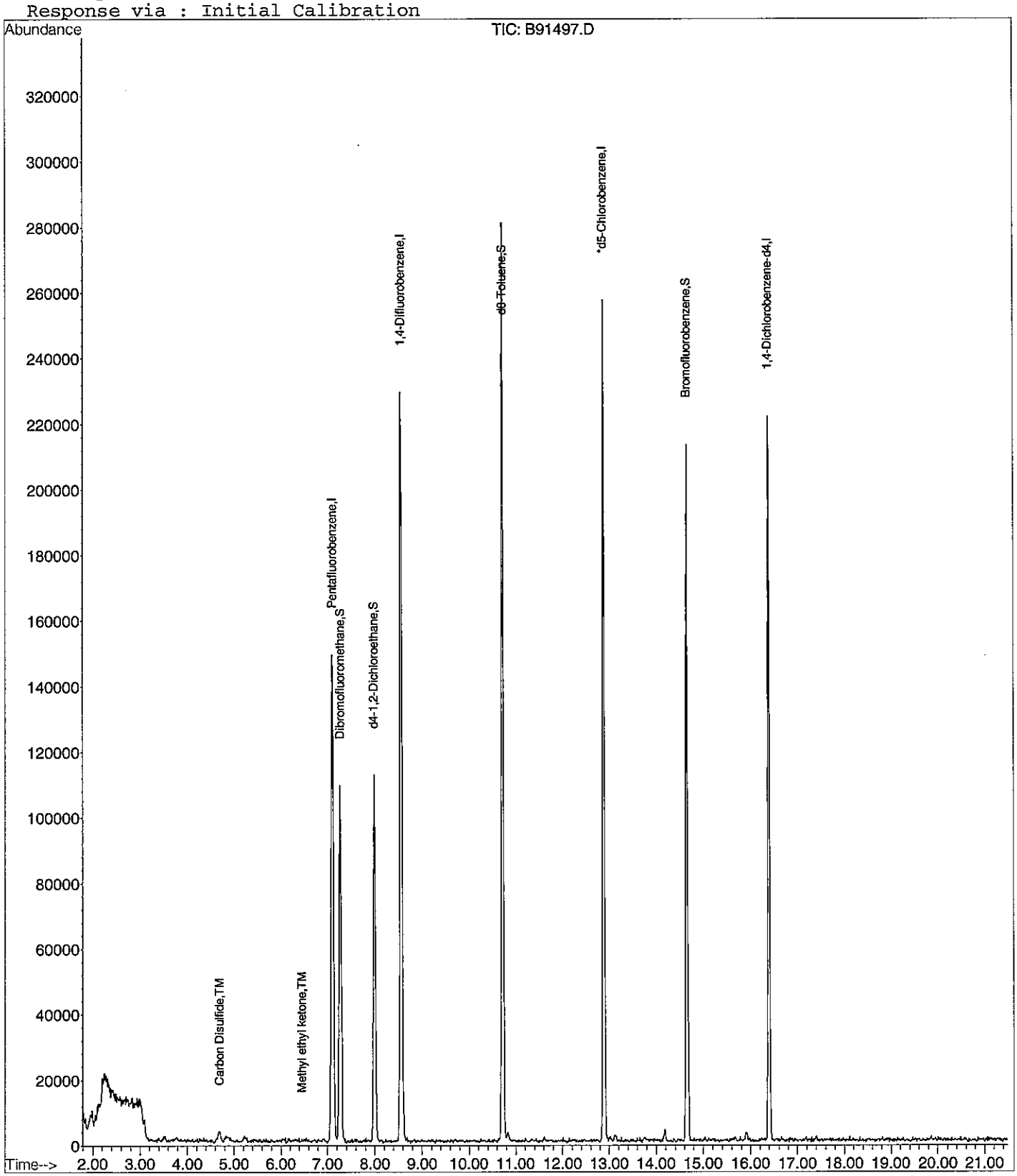
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080712-B\B91497.D Vial: 20
Acq On : 7 Aug 2012 7:48 pm Operator: MT
Sample : 73485-14 Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 9:25 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 09:23:43 2012
Response via : Initial Calibration



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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: MWX

SAMPLE DATA

Lab Sample ID: 73485-15
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	105 %	d8-Toluene	98 %	Bromofluorobenzene	99 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

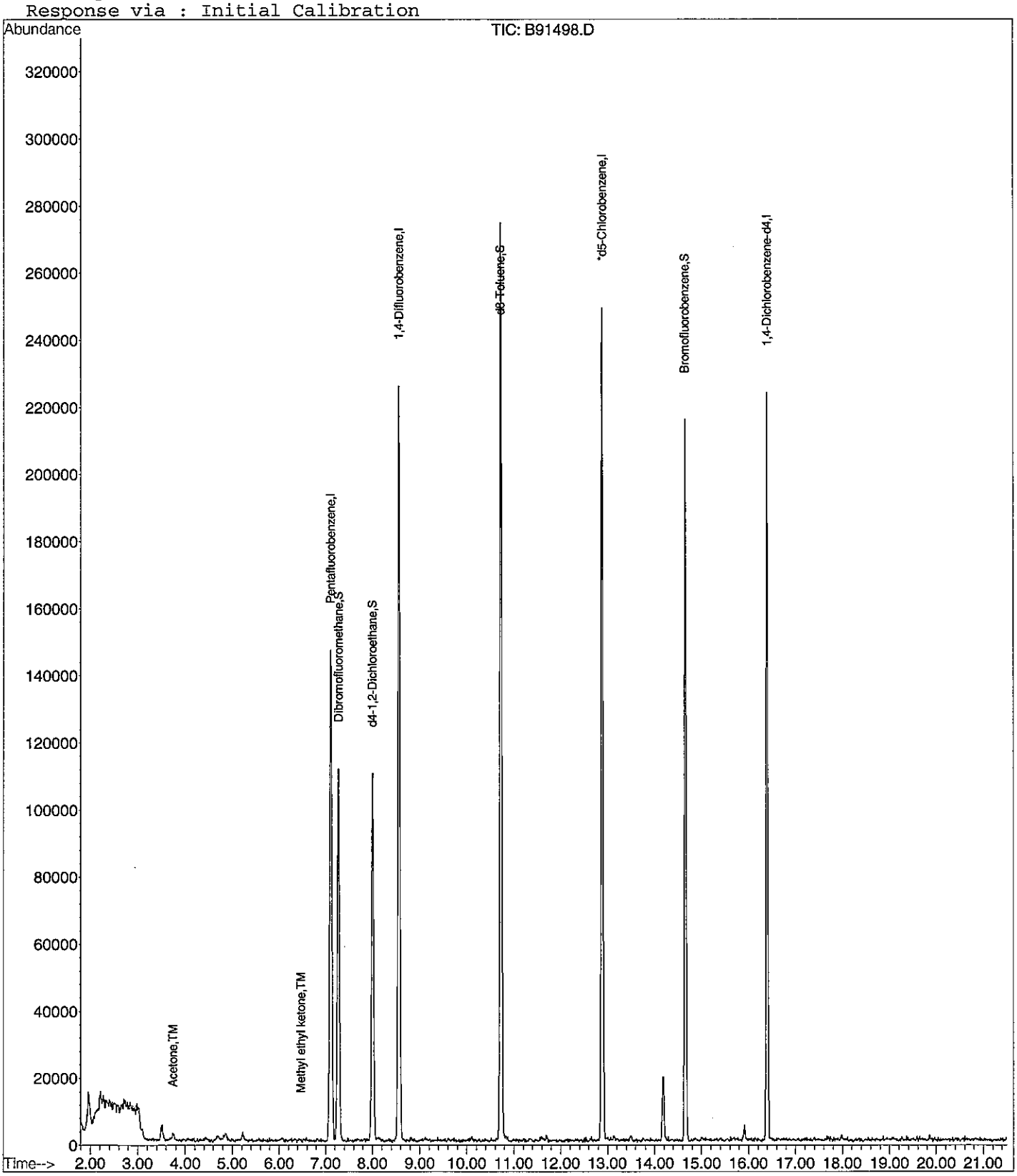
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080712-B\B91498.D Vial: 21
Acq On : 7 Aug 2012 8:17 pm Operator: MT
Sample : 73485-15 Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 9:25 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 09:23:43 2012
Response via : Initial Calibration



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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: Trip Blank

SAMPLE DATA

Lab Sample ID: 73485-16
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	103	%	d8-Toluene	96	%	Bromofluorobenzene	102 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

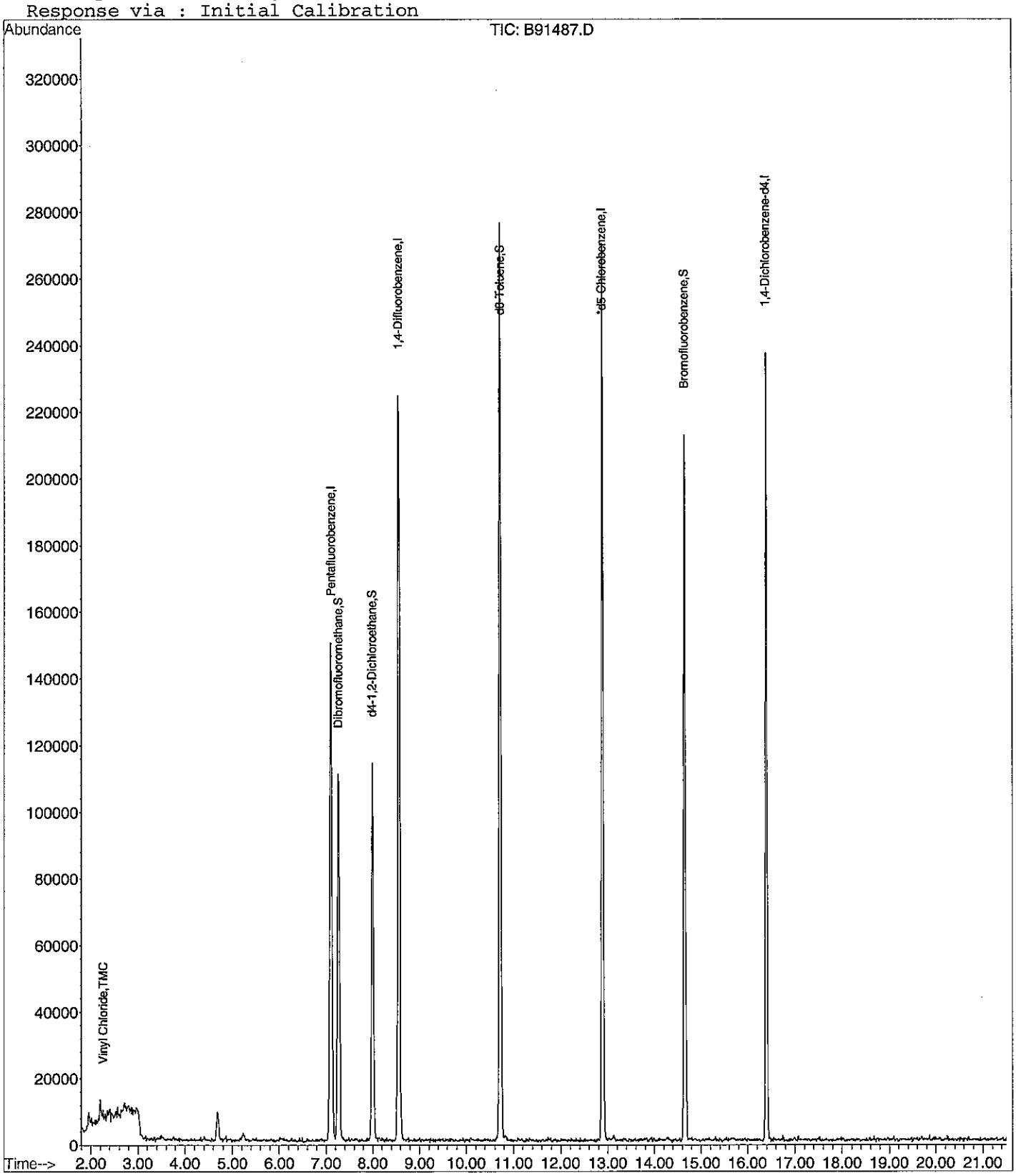
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080712-B\B91487.D Vial: 10
Acq On : 7 Aug 2012 2:55 pm Operator: MT
Sample : 73485-16 Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 9:24 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 09:23:43 2012
Response via : Initial Calibration



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August 10, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: Trip Blank

SAMPLE DATA

Lab Sample ID: 73485-17 RR
Matrix: Solid
Percent Solid: 100
Dilution Factor: 100
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	100	U	1,3-Dichloropropane	100	U
Bromobenzene	100	U	cis-1,3-Dichloropropene	100	U
Bromochloromethane	100	U	trans-1,3-Dichloropropene	100	U
Bromodichloromethane	75	U	2,2-Dichloropropane	100	U
Bromoform	75	U	1,1-Dichloropropene	100	U
Bromomethane	100	U	Ethylbenzene	100	U
n-butylbenzene	100	U	Hexachlorobutadiene	100	U
sec-butylbenzene	100	U	Isopropylbenzene	100	U
tert-butylbenzene	100	U	p-isopropyltoluene	100	U
Carbon Tetrachloride	100	U	Methylene Chloride	500	U
Chlorobenzene	100	U	Methyl-tert-butyl ether (MTBE)	75	U
Chloroethane	100	U	Naphthalene	100	U
Chloroform	75	U	n-Propylbenzene	100	U
Chloromethane	100	U	Styrene	100	U
2-Chlorotoluene	100	U	1,1,1,2-Tetrachloroethane	100	U
4-Chlorotoluene	100	U	1,1,2,2-Tetrachloroethane	75	U
Dibromochloromethane	75	U	Tetrachloroethene	100	U
1,2-Dibromo-3-chloropropane	100	U	Toluene	100	U
1,2-Dibromoethane	75	U	1,2,3-Trichlorobenzene	100	U
Dibromomethane	100	U	1,2,4-Trichlorobenzene	100	U
1,2-Dichlorobenzene	100	U	1,1,1-Trichloroethane	100	U
1,3-Dichlorobenzene	100	U	1,1,2-Trichloroethane	75	U
1,4-Dichlorobenzene	100	U	Trichloroethene	100	U
Dichlorodifluoromethane	100	U	Trichlorofluoromethane	100	U
1,1-Dichloroethane	100	U	1,2,3-Trichloropropane	100	U
1,2-Dichloroethane	75	U	1,2,4-Trimethylbenzene	100	U
1,1-Dichloroethene	75	U	1,3,5-Trimethylbenzene	100	U
cis-1,2-Dichloroethene	100	U	Vinyl Chloride	100	U
trans-1,2-Dichloroethene	100	U	o-Xylene	100	U
1,2-Dichloropropane	75	U	m,p-Xylene	100	U
Acetone	1000	U	Diethyl ether	100	U
Carbon Disulfide	100	U	2-Hexanone	1000	U
Tetrahydrofuran	500	U	Methyl isobutyl ketone	1000	U
Methyl ethyl ketone	1000	U	Di-isopropyl ether (DIPE)	100	U
t-Butyl alcohol (TBA)	2000	U	Ethyl t-butyl ether (ETBE)	100	U
t-Amyl methyl ether (TAME)	100	U	1,3,5-Trichlorobenzene	100	U
			1,4-Dioxane	3000	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	86 %	d8-Toluene	96 %	Bromofluorobenzene	95 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

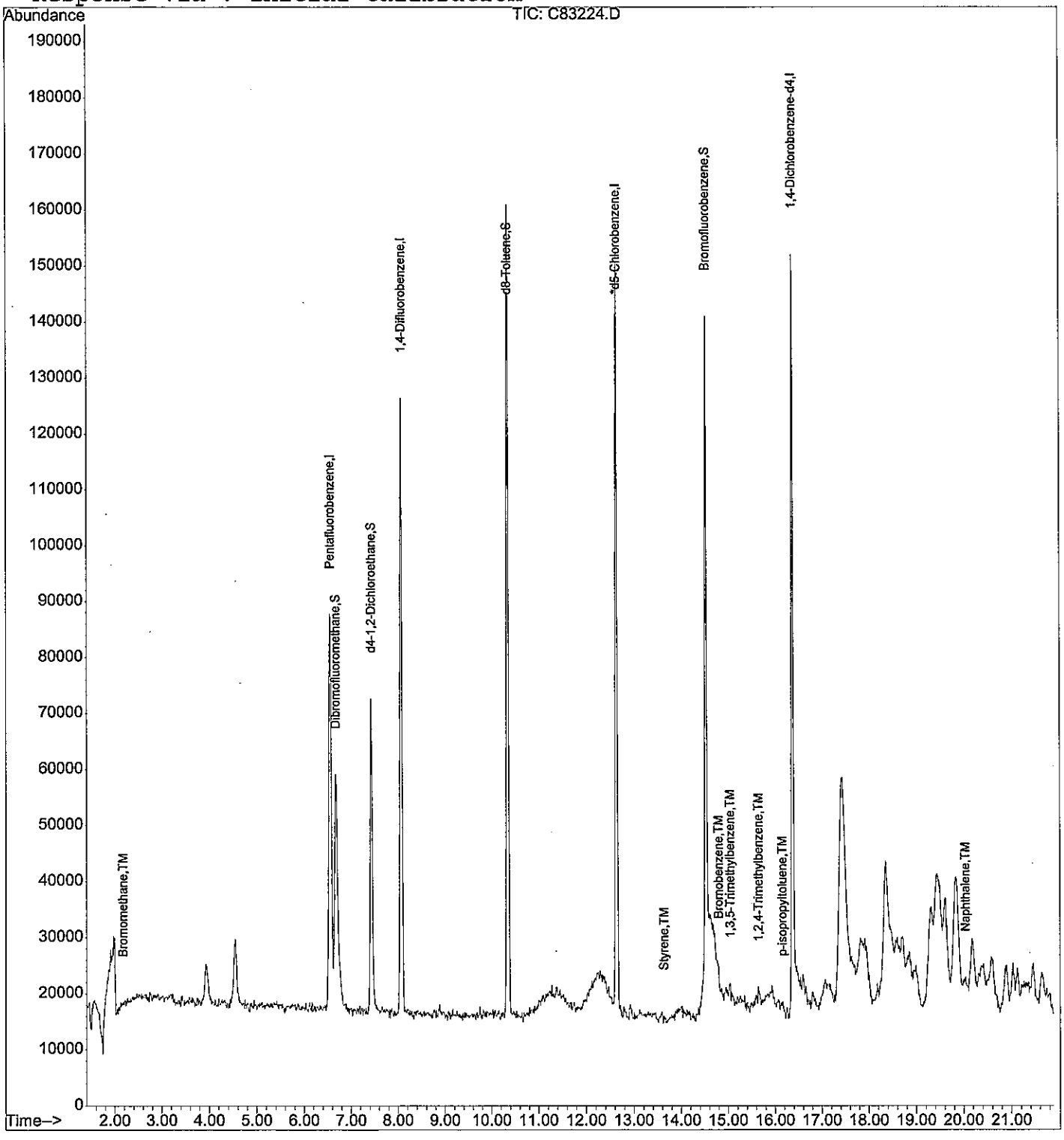
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83224.D Vial: 16
Acq On : 9 Aug 2012 3:49 pm Operator: MT
Sample : 73485-17,RR Inst : Instr_C
Misc : 50,10.00,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 7:49 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 08:24:42 2012
Response via : Initial Calibration



analytics environmental laboratory LLC

VOLATILE
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:VOCQC.doc

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August 7, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: LAB QC

Lab Sample ID: B808062B
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 08/06/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	114	%	d8-Toluene	102	%	Bromofluorobenzene	104 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

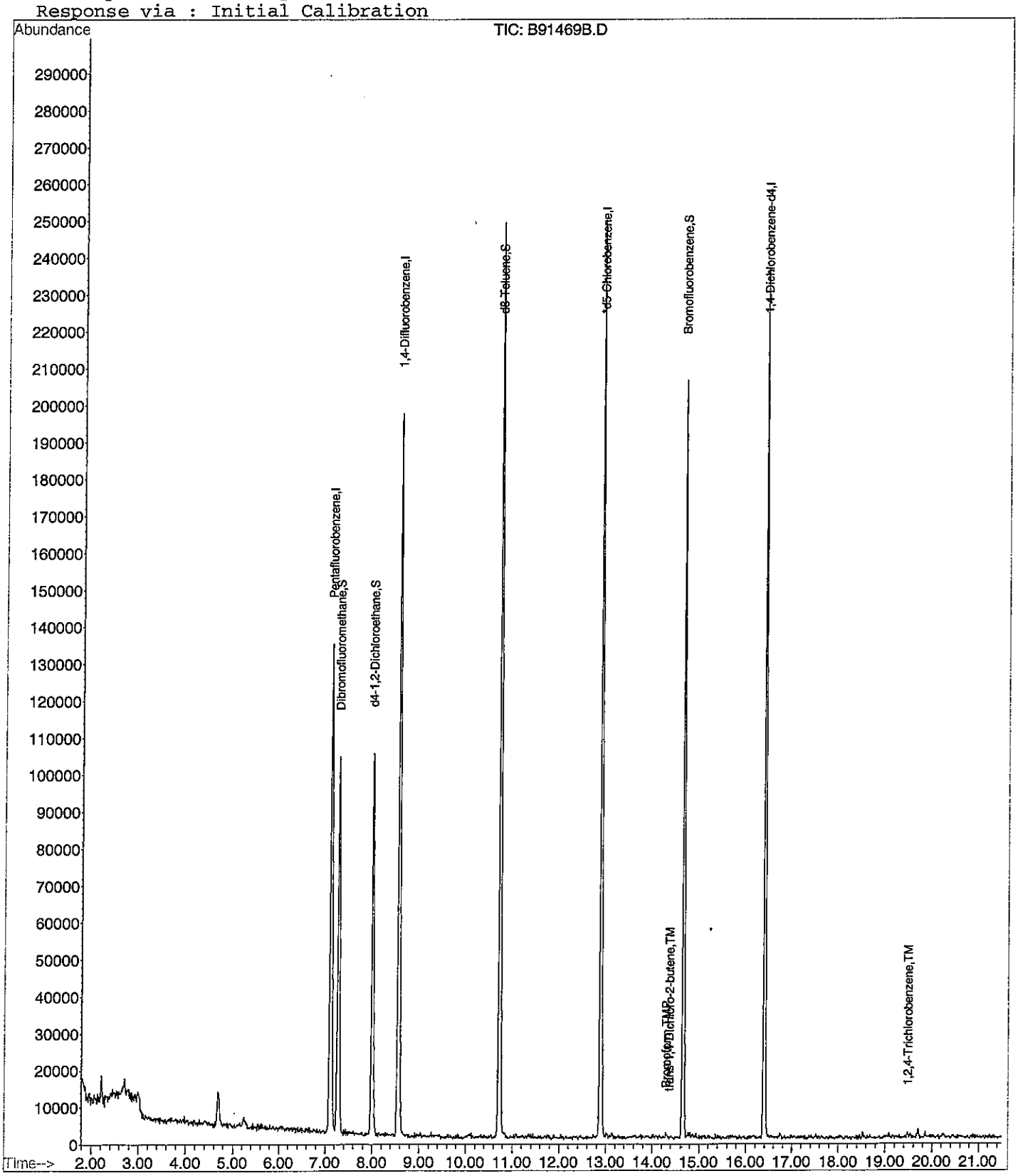
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080612-B\B91469B.D Vial: 23
Acq On : 6 Aug 2012 8:52 pm Operator: MT
Sample : B808062B Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 7 8:47 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Tue Aug 07 08:23:04 2012
Response via : Initial Calibration



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Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: LAB QC

SAMPLE DATA

Lab Sample ID: B808072B
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 08/07/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	104	%	d8-Toluene	93	%	Bromofluorobenzene	99 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

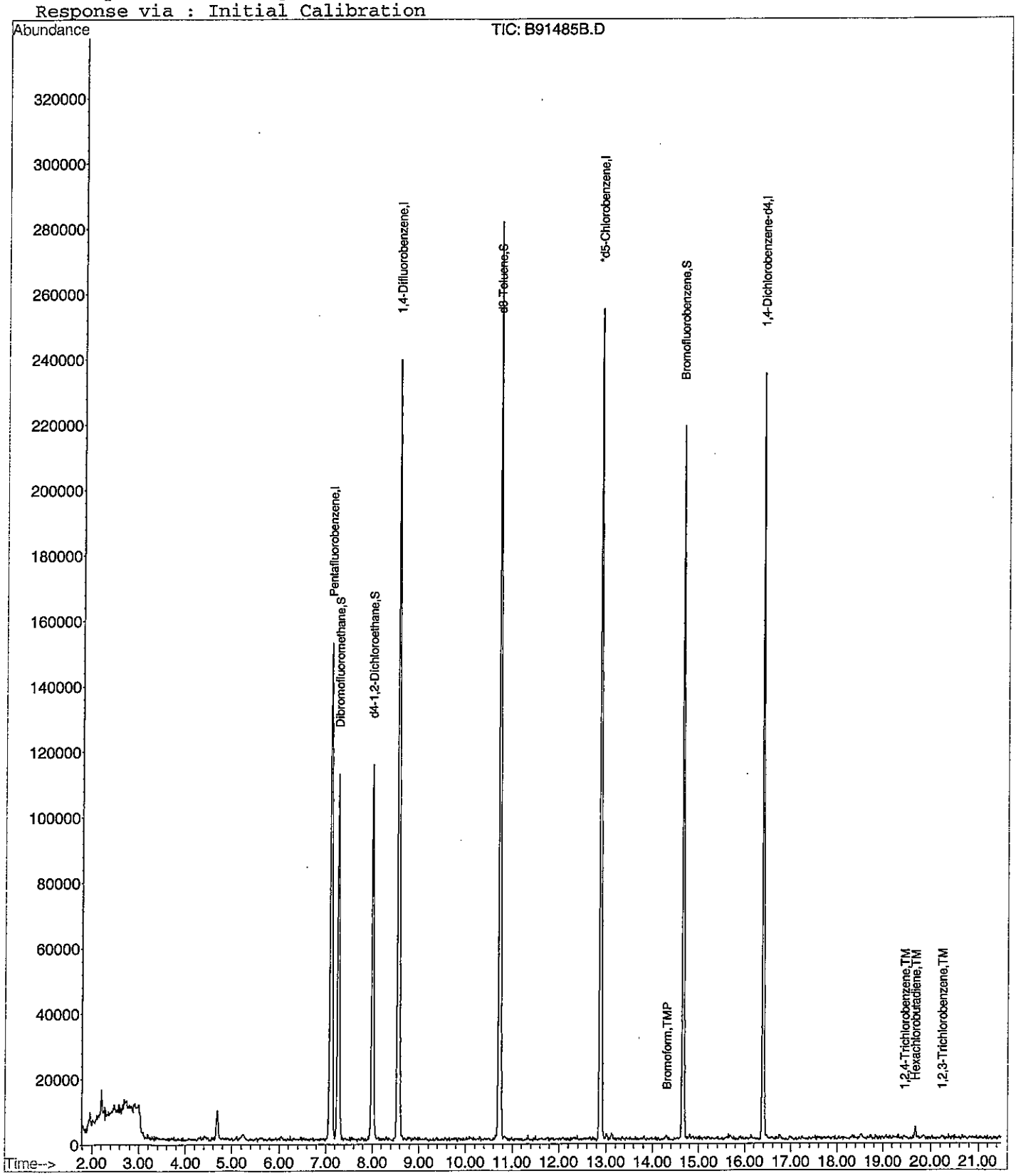
COMMENTS:

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\080712-B\B91485B.D Vial: 8
Acq On : 7 Aug 2012 1:55 pm Operator: MT
Sample : B808072B Inst : Instrumen
Misc : 5000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 8 9:23 2012 Quant Results File: V808062B.RES

Method : C:\HPCHEM\1\METHODS\V808062B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 09:23:43 2012
Response via : Initial Calibration



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400 Commercial Street Suite 404
Portland, ME 04101

August 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: LAB QC

Lab Sample ID: MB08082C
Matrix: Solid
Percent Solid: 100
Dilution Factor: 100
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 08/08/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	100	U	1,3-Dichloropropane	100	U
Bromobenzene	100	U	cis-1,3-Dichloropropene	100	U
Bromochloromethane	100	U	trans-1,3-Dichloropropene	100	U
Bromodichloromethane	75	U	2,2-Dichloropropane	100	U
Bromoform	75	U	1,1-Dichloropropene	100	U
Bromomethane	100	**120**	Ethylbenzene	100	U
n-butylbenzene	100	U	Hexachlorobutadiene	100	U
sec-butylbenzene	100	U	Isopropylbenzene	100	U
tert-butylbenzene	100	U	p-isopropyltoluene	100	U
Carbon Tetrachloride	100	U	Methylene Chloride	500	U
Chlorobenzene	100	U	Methyl-tert-butyl ether (MTBE)	75	U
Chloroethane	100	U	Naphthalene	100	U
Chloroform	75	U	n-Propylbenzene	100	U
Chloromethane	100	**133**	Styrene	100	U
2-Chlorotoluene	100	U	1,1,1,2-Tetrachloroethane	100	U
4-Chlorotoluene	100	U	1,1,2,2-Tetrachloroethane	75	U
Dibromochloromethane	75	U	Tetrachloroethene	100	U
1,2-Dibromo-3-chloropropane	100	U	Toluene	100	U
1,2-Dibromoethane	75	U	1,2,3-Trichlorobenzene	100	U
Dibromomethane	100	U	1,2,4-Trichlorobenzene	100	U
1,2-Dichlorobenzene	100	U	1,1,1-Trichloroethane	100	U
1,3-Dichlorobenzene	100	U	1,1,2-Trichloroethane	75	U
1,4-Dichlorobenzene	100	U	Trichloroethene	100	U
Dichlorodifluoromethane	100	U	Trichlorofluoromethane	100	U
1,1-Dichloroethane	100	U	1,2,3-Trichloropropane	100	U
1,2-Dichloroethane	75	U	1,2,4-Trimethylbenzene	100	U
1,1-Dichloroethene	75	U	1,3,5-Trimethylbenzene	100	U
cis-1,2-Dichloroethene	100	U	Vinyl Chloride	100	U
trans-1,2-Dichloroethene	100	U	o-Xylene	100	U
1,2-Dichloropropane	75	U	m,p-Xylene	100	U
Acetone	1000	U	Diethyl ether	100	U
Carbon Disulfide	100	U	2-Hexanone	1000	U
Tetrahydrofuran	500	U	Methyl isobutyl ketone	1000	U
Methyl ethyl ketone	1000	U	Di-isopropyl ether (DIPE)	100	U
t-Butyl alcohol (TBA)	2000	U	Ethyl t-butyl ether (ETBE)	100	U
t-Amyl methyl ether (TAME)	100	U	1,3,5-Trichlorobenzene	100	U
			1,4-Dioxane	3000	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	88 %	d8-Toluene	91 %	Bromofluorobenzene	89 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

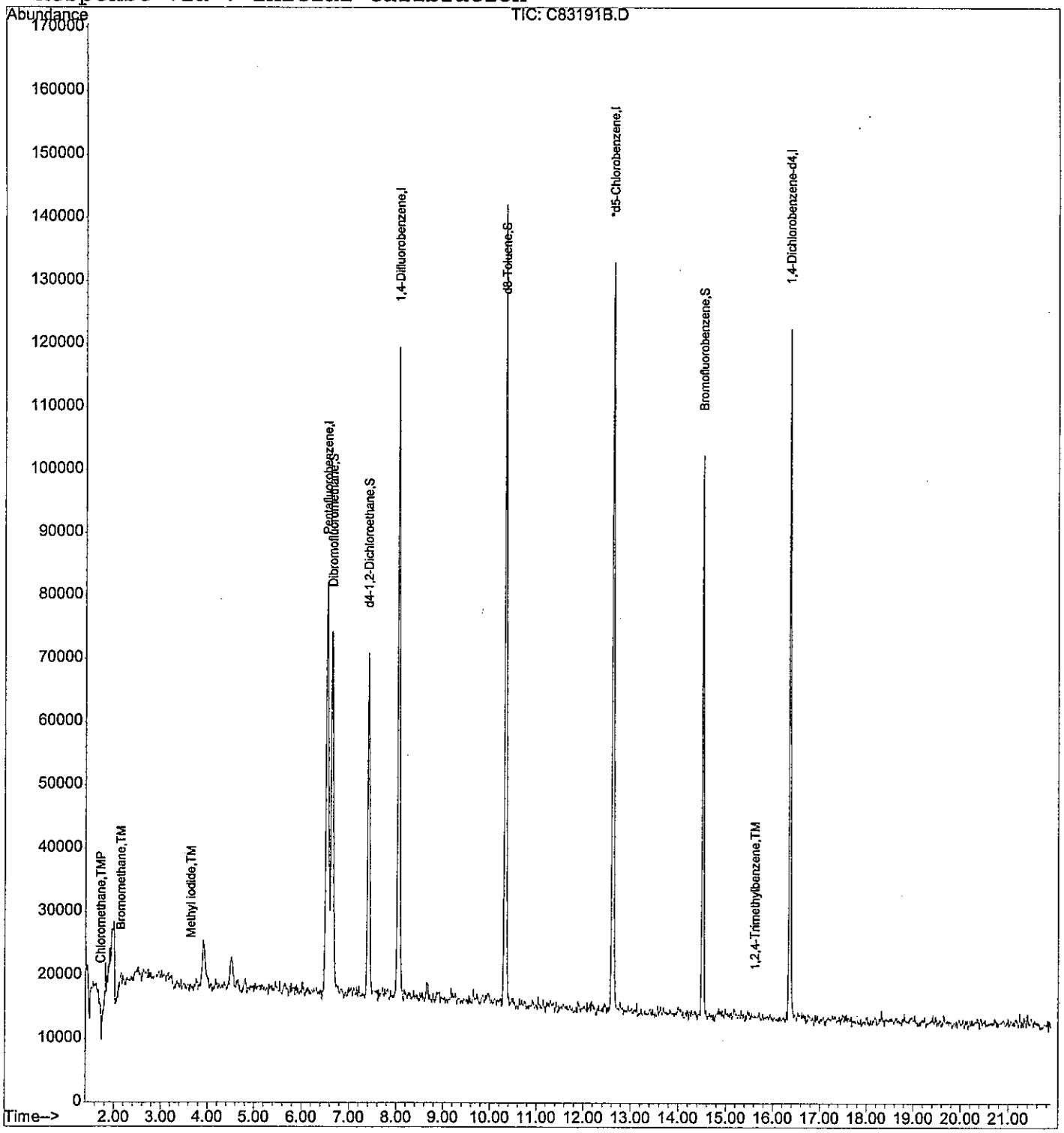
8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080812-C\C83191B.D Vial: 6
Acq On : 8 Aug 2012 12:58 pm Operator: MT
Sample : MB08082C,,RR Inst : Instr_C
Misc : 50,10.00,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 9 7:12 2012 Quant Results File: V808072C.RES

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integrat
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 14:18:16 2012
Response via : Initial Calibration



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August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: LAB QC

SAMPLE DATA

Lab Sample ID: MB08092C
Matrix: Solid
Percent Solid: 100
Dilution Factor: 100
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 08/09/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	100	U	1,3-Dichloropropane	100	U
Bromobenzene	100	U	cis-1,3-Dichloropropene	100	U
Bromochloromethane	100	U	trans-1,3-Dichloropropene	100	U
Bromodichloromethane	75	U	2,2-Dichloropropane	100	U
Bromoform	75	U	1,1-Dichloropropene	100	U
Bromomethane	100	U	Ethylbenzene	100	U
n-butylbenzene	100	U	Hexachlorobutadiene	100	U
sec-butylbenzene	100	U	Isopropylbenzene	100	U
tert-butylbenzene	100	U	p-isopropyltoluene	100	U
Carbon Tetrachloride	100	U	Methylene Chloride	500	U
Chlorobenzene	100	U	Methyl-tert-butyl ether (MTBE)	75	U
Chloroethane	100	U	Naphthalene	100	U
Chloroform	75	U	n-Propylbenzene	100	U
Chloromethane	100	U	Styrene	100	U
2-Chlorotoluene	100	U	1,1,1,2-Tetrachloroethane	100	U
4-Chlorotoluene	100	U	1,1,2,2-Tetrachloroethane	75	U
Dibromochloromethane	75	U	Tetrachloroethene	100	U
1,2-Dibromo-3-chloropropane	100	U	Toluene	100	U
1,2-Dibromoethane	75	U	1,2,3-Trichlorobenzene	100	U
Dibromomethane	100	U	1,2,4-Trichlorobenzene	100	U
1,2-Dichlorobenzene	100	U	1,1,1-Trichloroethane	100	U
1,3-Dichlorobenzene	100	U	1,1,2-Trichloroethane	75	U
1,4-Dichlorobenzene	100	U	Trichloroethene	100	U
Dichlorodifluoromethane	100	U	Trichlorofluoromethane	100	U
1,1-Dichloroethane	100	U	1,2,3-Trichloropropane	100	U
1,2-Dichloroethane	75	U	1,2,4-Trimethylbenzene	100	U
1,1-Dichloroethene	75	U	1,3,5-Trimethylbenzene	100	U
cis-1,2-Dichloroethene	100	U	Vinyl Chloride	100	U
trans-1,2-Dichloroethene	100	U	o-Xylene	100	U
1,2-Dichloropropane	75	U	m,p-Xylene	100	U
Acetone	1000	U	Diethyl ether	100	U
Carbon Disulfide	100	U	2-Hexanone	1000	U
Tetrahydrofuran	500	U	Methyl isobutyl ketone	1000	U
Methyl ethyl ketone	1000	U	Di-isopropyl ether (DIPE)	100	U
t-Butyl alcohol (TBA)	2000	U	Ethyl t-butyl ether (ETBE)	100	U
t-Amyl methyl ether (TAME)	100	U	1,3,5-Trichlorobenzene	100	U
			1,4-Dioxane	3000	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	95 %	d8-Toluene	101 %	Bromofluorobenzene	99 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

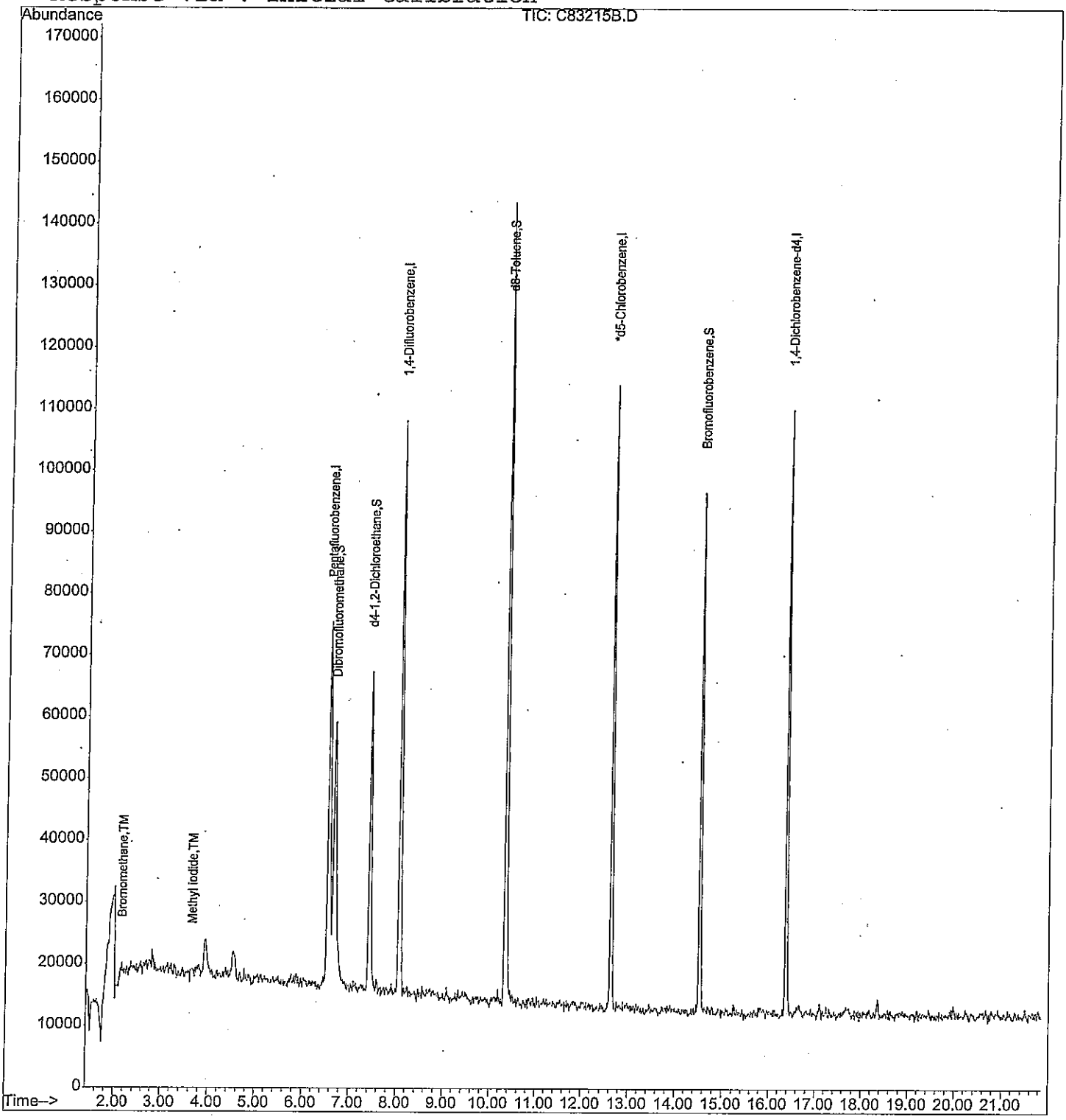
COMMENTS: Results are expressed on a dry weight basis.

8260 2009 + Dioxane:Res(73):Rec(3)

Authorized signature

Data File : C:\HPCHEM\1\DATA\DATA\080912-C\C83215B.D Vial: 6
Acq On : 9 Aug 2012 10:45 am Operator: MT
Sample : MB08092C Inst : Instr_C
Misc : 50,10.00,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 9 11:08 2012 Quant Results File: V808072C.RI

Method : C:\HPCHEM\1\METHODS\MATHODS\METHODS\V808072C.M (RTE Integra
Title : 8260 Purgable Organics
Last Update : Wed Aug 08 14:18:16 2012
Response via : Initial Calibration



VOLATILE ORGANIC AQUEOUS
LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: B
GC Column: RTX-502.2
Column ID: 0.25 mm
Heated purge (Y/N): N

SDG: 73485
Non-spiked sample: B808072B
Spike: L808072B
Spike duplicate: L808072B2

COMPOUND	SPIKE ADDED	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
Dichlorodifluoromethane	20	40	155	15	0.0	23	113		21	107		6	
Chloromethane	20	40	125	15	0.0	22	109		21	105		4	
Vinyl Chloride	20	70	130	15	0.0	21	105		21	107		3	
Bromomethane	20	40	145	15	0.0	22	112		24	119		6	
Chloroethane	20	70	130	15	0.0	22	109		21	103		6	
t-Butyl alcohol (TBA)	100	70	130	15	0.0	99	99		96	96		3	
Trichlorofluoromethane	20	70	130	15	0.0	20	102		20	98		4	
Diethyl ether	20	70	130	15	0.0	20	98		20	98		0	
1,1,2-Trichlorotrifluoroethane	20	70	130	15	0.0	20	98		19	94		4	
Acetone	100	40	140	15	0.0	92	92		91	91		1	
1,1-Dichloroethene	20	75	125	15	0.0	21	103		20	98		5	
Methyl iodide	20	70	130	15	0.0	21	106		22	109		3	
Di-isopropyl ether (DIPE)	20	70	130	15	0.0	21	103		19	97		6	
Methylene Chloride	20	70	130	15	0.0	22	108		21	107		1	
Carbon Disulfide	20	70	130	15	0.0	21	103		20	98		5	
Acrylonitrile	20	70	130	15	0.0	22	112		21	104		7	
Methyl-tert-butyl ether (MTBE)	40	70	130	15	0.0	41	103		39	96		6	
trans-1,2-Dichloroethene	20	75	125	15	0.0	21	105		20	98		6	
1,1-Dichloroethane	20	70	130	15	0.0	21	104		20	100		4	
Vinyl acetate	20	70	130	15	0.0	23	113		23	113		0	
Methyl ethyl ketone	100	40	150	15	0.0	100	100		95	95		4	
Ethyl t-butyl ether (ETBE)	20	70	130	15	0.0	21	105		20	102		3	
2,2-Dichloropropane	20	70	130	15	0.0	20	101		19	93		9	
cis-1,2-Dichloroethene	20	75	125	15	0.0	21	104		20	100		4	
t-Amyl methyl ether (TAME)	20	70	130	15	0.0	21	105		20	101		4	
Chloroform	20	70	130	15	0.0	21	104		20	101		3	
Bromochloromethane	20	70	130	15	0.0	22	109		21	106		3	
Tetrahydrofuran	20	70	130	15	0.0	19	97		18	88		9	
1,1,1-Trichloroethane	20	75	125	15	0.0	20	102		19	96		7	
1,1-Dichloropropene	20	75	130	15	0.0	20	98		18	91		7	
Carbon Tetrachloride	20	75	125	15	0.0	21	106		20	99		7	
1,2-Dichloroethane	20	70	130	15	0.0	20	100		19	97		4	
Benzene	20	80	120	15	0.0	20	99		19	96		3	
Trichloroethene	20	75	125	15	0.0	21	103		19	97		5	
1,2-Dichloropropane	20	75	125	15	0.0	18	92		18	91		1	
Methylmethacrylate	20	70	130	15	0.0	19	94		18	90		5	
Bromodichloromethane	20	75	120	15	0.0	20	98		20	99		1	
Dibromomethane	20	75	125	15	0.0	19	93		19	95		1	
1,4-Dioxane	500	40	160	15	0.0	537	107		540	108		1	
2-Hexanone	100	55	130	15	0.0	100	100		96	96		4	
Methyl isobutyl ketone	100	60	135	15	0.0	98	98		96	96		2	
cis-1,3-Dichloropropene	20	70	130	15	0.0	20	101		20	100		2	
Toluene	20	75	120	15	0.0	19	97		19	96		1	
trans-1,3-Dichloropropene	20	70	130	15	0.0	21	106		21	104		2	
1,1,2-Trichloroethane	20	75	125	15	0.0	20	98		19	96		2	
1,3-Dichloropropane	20	75	125	15	0.0	20	100		19	97		3	
Tetrachloroethene	20	75	125	15	0.0	21	104		21	103		1	
Dibromochloromethane	20	70	130	15	0.0	20	102		21	103		1	
1,2-Dibromoethane	20	80	120	15	0.0	20	102		20	98		4	
Chlorobenzene	20	80	120	15	0.0	21	103		20	100		3	
1,1,1,2-Tetrachloroethane	20	80	130	15	0.0	20	102		20	102		0	

VOA FORM 3

VOLATILE ORGANIC AQUEOUS
LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: B
GC Column: RTX-502.2
Column ID: 0.25 mm
Heated purge (Y/N): N

SDG: 73485
Non-spiked sample: B808072B
Spike: L808072B
Spike duplicate: L808072B2

COMPOUND	SPIKE ADDED	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
Ethylbenzene	20	75	125	15	0.0	20	98		20	98		0	
m,p-Xylene	40	75	125	15	0.0	40	101		41	103		3	
o-Xylene	20	80	120	15	0.0	20	99		21	103		3	
Styrene	20	70	130	15	0.0	20	101		20	102		1	
Bromoform	20	70	130	15	0.0	22	108		21	107		1	
Isopropylbenzene	20	75	125	15	0.0	21	104		21	105		1	
1,1,2,2-Tetrachloroethane	20	70	130	15	0.0	20	100		19	97		3	
1,2,3-Trichloropropane	20	75	125	15	0.0	19	97		20	99		2	
n-Propylbenzene	20	70	130	15	0.0	21	103		21	103		0	
Bromobenzene	20	75	125	15	0.0	19	96		20	99		4	
1,3,5-Trimethylbenzene	20	75	130	15	0.0	21	103		21	107		4	
2-Chlorotoluene	20	75	125	15	0.0	21	106		22	111		4	
4-Chlorotoluene	20	75	130	15	0.0	19	95		20	98		2	
tert-butylbenzene	20	70	130	15	0.0	21	107		21	107		0	
1,2,4-Trimethylbenzene	20	75	130	15	0.0	19	95		20	98		3	
sec-butylbenzene	20	70	125	15	0.0	21	104		21	103		1	
p-isopropyltoluene	20	75	130	15	0.0	21	106		22	112		5	
1,3-Dichlorobenzene	20	75	125	15	0.0	20	101		20	100		1	
1,4-Dichlorobenzene	20	75	125	15	0.0	21	103		21	103		0	
n-butylbenzene	20	70	130	15	0.0	20	102		20	99		3	
1,2-Dichlorobenzene	20	70	120	15	0.0	19	97		19	96		1	
1,2-Dibromo-3-chloropropane	20	70	130	15	0.0	19	97		19	96		1	
1,2,4-Trichlorobenzene	20	70	130	15	0.0	20	100		19	96		4	
Hexachlorobutadiene	20	70	130	15	0.0	21	105		20	101		4	
Naphthalene	20	70	130	15	0.0	19	97		19	94		3	
1,2,3-Trichlorobenzene	20	70	130	15	0.0	20	99		20	99		0	
1,3,5-Trichlorobenzene	20	70	130	15	0.0	20	98		19	97		1	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

VOLATILE ORGANIC SOIL
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: C
GC Column: RTX-502.2
Column ID: 0.25 mm
Heated purge (Y/N): N

SDG: 73485
Non-spiked sample: MB08082C,,RR
Spike: LS08082C
Spike duplicate: LS08082C2

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
Dichlorodifluoromethane	2000	2000	49	82	25	0	1612	81		1436	72		12	
Chloromethane	2000	2000	75	125	25	0	1395	70	*	1291	65	*	8	
Vinyl Chloride	2000	2000	75	125	25	0	1651	83		1356	68	*	20	
Bromomethane	2000	2000	75	125	25	0	1886	94		1808	90		4	
Chloroethane	2000	2000	75	125	25	0	1895	95		1593	80		17	
t-Butyl alcohol (TBA)	10000	10000	60	140	25	0	8812	88		9725	97		10	
Trichlorofluoromethane	2000	2000	75	125	25	0	2171	109		2045	102		6	
Diethyl ether	2000	2000	75	125	25	0	2077	104		1818	91		13	
1,1,2-Trichlorotrifluoroethane	2000	2000	75	125	25	0	2058	103		1893	95		8	
Acetone	5000	5000	75	125	25	0	7086	142	*	5762	115		21	
1,1-Dichloroethene	2000	2000	75	125	25	0	2215	111		2095	105		6	
Di-isopropyl ether (DIPE)	2000	2000	75	125	25	0	1985	99		1779	89		11	
Methylene Chloride	2000	2000	75	125	25	0	2255	113		2060	103		9	
Carbon Disulfide	2000	2000	75	125	25	0	2425	121		2206	110		9	
Acrylonitrile	2000	2000	75	125	25	0	2129	106		1993	100		7	
Methyl-tert-butyl ether (MTBE)	2000	2000	75	125	25	0	2010	101		1834	92		9	
trans-1,2-Dichloroethene	2000	2000	75	125	25	0	2155	108		1950	98		10	
1,1-Dichloroethane	2000	2000	75	125	25	0	2201	110		1972	99		11	
Methyl ethyl ketone	5000	5000	60	140	25	0	6436	129		5576	112		14	
Ethyl t-butyl ether (ETBE)	2000	2000	75	125	25	0	2079	104		1816	91		14	
2,2-Dichloropropane	2000	2000	75	125	25	0	2200	110		1675	84		27	*
cis-1,2-Dichloroethene	2000	2000	75	125	25	0	2200	110		1996	100		10	
t-Amyl methyl ether (TAME)	2000	2000	75	125	25	0	2112	106		1828	91		14	
Chloroform	2000	2000	75	125	25	0	2157	108		1960	98		10	
Bromochloromethane	2000	2000	75	125	25	0	2020	101		1944	97		4	
Tetrahydrofuran	2000	2000	60	140	25	0	2021	101		1944	97		4	
1,1,1-Trichloroethane	2000	2000	75	125	25	0	2147	107		1930	96		11	
1,1-Dichloropropene	2000	2000	75	125	25	0	2160	108		1848	92		16	
Carbon Tetrachloride	2000	2000	75	125	25	0	2123	106		1930	96		10	
1,2-Dichloroethane	2000	2000	75	125	25	0	1976	99		1825	91		8	
Benzene	2000	2000	75	125	25	0	2146	107		1806	90		17	
Trichloroethene	2000	2000	75	125	25	0	2075	104		2031	102		2	
1,2-Dichloropropane	2000	2000	75	125	25	0	2019	101		1924	96		5	
Methylmethacrylate	2000	2000	75	125	25	0	2029	101		2053	103		1	
Bromodichloromethane	2000	2000	75	125	25	0	2029	101		1991	100		2	
Dibromomethane	2000	2000	75	125	25	0	2027	101		2059	103		2	
1,4-Dioxane	25000	25000	60	140	25	0	21777	87		26580	106		20	
2-Hexanone	5000	5000	75	125	25	0	4478	90		5232	105		16	
Methyl isobutyl ketone	5000	5000	75	125	25	0	4769	95		4867	97		2	
cis-1,3-Dichloropropene	2000	2000	75	125	25	0	2064	103		1988	99		4	
Toluene	2000	2000	75	125	25	0	2080	104		2056	103		1	
trans-1,3-Dichloropropene	2000	2000	75	125	25	0	2005	100		1950	98		3	
1,1,2-Trichloroethane	2000	2000	75	125	25	0	1973	99		1979	99		0	
1,3-Dichloropropane	2000	2000	75	125	25	0	1867	93		1972	99		5	
Tetrachloroethene	2000	2000	75	125	25	0	1943	97		1996	100		3	
Dibromochloromethane	2000	2000	75	125	25	0	1889	94		1978	99		5	
1,2-Dibromoethane	2000	2000	75	125	25	0	1914	96		1991	100		4	
Chlorobenzene	2000	2000	75	125	25	0	2179	109		2044	102		6	
1,1,1,2-Tetrachloroethane	2000	2000	75	125	25	0	2154	108		2014	101		7	
Ethylbenzene	2000	2000	75	125	25	0	2110	105		2008	100		5	

VOLATILE ORGANIC SOIL
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: C
GC Column: RTX-502.2
Column ID: 0.25 mm
Heated purge (Y/N): N

SDG: 73485
Non-spiked sample: MB08082C,,RR
Spike: LS08082C
Spike duplicate: LS08082C2

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
m,p-Xylene	4000	4000	75	125	25	0	4511	113		4255	106		6	
o-Xylene	2000	2000	75	125	25	0	2202	110		2026	101		8	
Styrene	2000	2000	75	125	25	0	1995	100		1885	94		6	
Bromoform	2000	2000	75	125	25	0	2095	105		2077	104		1	
Isopropylbenzene	2000	2000	75	125	25	0	2229	111		2113	106		5	
1,1,2,2-Tetrachloroethane	2000	2000	75	125	25	0	2000	100		1910	95		5	
1,2,3-Trichloropropane	2000	2000	75	125	25	0	1836	92		1824	91		1	
trans-1,4-Dichloro-2-butene	2000	2000	75	125	25	0	1959	98		1949	97		1	
n-Propylbenzene	2000	2000	75	125	25	0	1865	93		1714	86		8	
Bromobenzene	2000	2000	75	125	25	0	1571	79		1502	75		4	
1,3,5-Trimethylbenzene	2000	2000	75	125	25	0	1667	83		1614	81		3	
2-Chlorotoluene	2000	2000	75	125	25	0	1998	100		1906	95		5	
4-Chlorotoluene	2000	2000	75	125	25	0	1957	98		1812	91		8	
tert-butylbenzene	2000	2000	75	125	25	0	1937	97		1831	92		6	
1,2,4-Trimethylbenzene	2000	2000	75	125	25	0	1669	83		1601	80		4	
sec-butylbenzene	2000	2000	75	125	25	0	1817	91		1684	84		8	
p-isopropyltoluene	2000	2000	75	125	25	0	1792	90		1631	82		9	
1,3-Dichlorobenzene	2000	2000	75	125	25	0	2125	106		1969	98		8	
1,4-Dichlorobenzene	2000	2000	75	125	25	0	2171	109		2111	106		3	
n-butylbenzene	2000	2000	75	125	25	0	2239	112		2143	107		4	
1,2-Dichlorobenzene	2000	2000	75	125	25	0	2171	109		2120	106		2	
1,2-Dibromo-3-chloropropane	2000	2000	75	125	25	0	1941	97		2179	109		12	
1,2,4-Trichlorobenzene	2000	2000	75	125	25	0	1984	99		1968	98		1	
Hexachlorobutadiene	2000	2000	75	125	25	0	2054	103		2096	105		2	
Naphthalene	2000	2000	75	125	25	0	1938	97		2120	106		9	
1,2,3-Trichlorobenzene	2000	2000	75	125	25	0	2056	103		2142	107		4	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

VOLATILE ORGANIC SOIL
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: C
GC Column: RTX-502.2
Column ID: 0.25 mm
Heated purge (Y/N): N

SDG: 73485
Non-spiked sample: BLK
Spike: LS08092C
Spike duplicate: LS08092C2

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
Dichlorodifluoromethane	2000	2000	49	82	25	0	1432	72		1547	77		8	
Chloromethane	2000	2000	75	125	25	0	1173	59	*	1328	66	*	12	
Vinyl Chloride	2000	2000	75	125	25	0	1632	82		1695	85		4	
Bromomethane	2000	2000	75	125	25	0	2003	100		2106	105		5	
Chloroethane	2000	2000	75	125	25	0	1733	87		1903	95		9	
t-Butyl alcohol (TBA)	10000	10000	60	140	25	0	7873	79		8447	84		7	
Trichlorofluoromethane	2000	2000	75	125	25	0	2057	103		2261	113		9	
Diethyl ether	2000	2000	75	125	25	0	1853	93		1982	99		7	
1,1,2-Trichlorotrifluoroethane	2000	2000	75	125	25	0	2033	102		2243	112		10	
Acetone	5000	5000	75	125	25	0	6132	123		6537	131	*	6	
1,1-Dichloroethene	2000	2000	75	125	25	0	2078	104		2257	113		8	
Methyl iodide	2000	2000	75	125	25	0	1236	62	*	1265	63	*	2	
Di-isopropyl ether (DIPE)	2000	2000	75	125	25	0	1856	93		1995	100		7	
Methylene Chloride	2000	2000	75	125	25	0	1943	97		2124	106		9	
Carbon Disulfide	2000	2000	75	125	25	0	2192	110		2356	118		7	
Acrylonitrile	2000	2000	75	125	25	0	1810	90		2049	102		12	
Methyl-tert-butyl ether (MTBE)	2000	2000	75	125	25	0	1728	86		1949	97		12	
trans-1,2-Dichloroethene	2000	2000	75	125	25	0	1942	97		2062	103		6	
1,1-Dichloroethane	2000	2000	75	125	25	0	1918	96		2052	103		7	
Methyl ethyl ketone	5000	5000	60	140	25	0	5279	106		5617	112		6	
Ethyl t-butyl ether (ETBE)	2000	2000	75	125	25	0	1822	91		1981	99		8	
2,2-Dichloropropane	2000	2000	75	125	25	0	1733	87		1734	87		0	
cis-1,2-Dichloroethene	2000	2000	75	125	25	0	1992	100		2155	108		8	
t-Amyl methyl ether (TAME)	2000	2000	75	125	25	0	1815	91		1946	97		7	
Chloroform	2000	2000	75	125	25	0	1951	98		2100	105		7	
Bromochloromethane	2000	2000	75	125	25	0	1922	96		2088	104		8	
Tetrahydrofuran	2000	2000	60	140	25	0	1710	85		1925	96		12	
1,1,1-Trichloroethane	2000	2000	75	125	25	0	1983	99		2126	106		7	
1,1-Dichloropropene	2000	2000	75	125	25	0	1901	95		2064	103		8	
Carbon Tetrachloride	2000	2000	75	125	25	0	2064	103		2241	112		8	
1,2-Dichloroethane	2000	2000	75	125	25	0	1744	87		1940	97		11	
Benzene	2000	2000	75	125	25	0	1886	94		2094	105		10	
Trichloroethene	2000	2000	75	125	25	0	2059	103		2258	113		9	
1,2-Dichloropropane	2000	2000	75	125	25	0	1912	96		2072	104		8	
Methylmethacrylate	2000	2000	75	125	25	0	1821	91		1939	97		6	
Bromodichloromethane	2000	2000	75	125	25	0	1952	98		2136	107		9	
Dibromomethane	2000	2000	75	125	25	0	1880	94		2008	100		7	
1,4-Dioxane	25000	25000	60	140	25	0	20015	80		21663	87		8	
2-Hexanone	5000	5000	75	125	25	0	3995	80		4677	94		16	
Methyl isobutyl ketone	5000	5000	75	125	25	0	4241	85		4521	90		6	
cis-1,3-Dichloropropene	2000	2000	75	125	25	0	1906	95		2082	104		9	
Toluene	2000	2000	75	125	25	0	1969	98		2128	106		8	
trans-1,3-Dichloropropene	2000	2000	75	125	25	0	1812	91		1989	99		9	
1,1,2-Trichloroethane	2000	2000	75	125	25	0	1872	94		2059	103		10	
1,3-Dichloropropane	2000	2000	75	125	25	0	1830	92		2006	100		9	
Tetrachloroethene	2000	2000	75	125	25	0	2006	100		2206	110		10	
Dibromochloromethane	2000	2000	75	125	25	0	1929	96		2085	104		8	
1,2-Dibromoethane	2000	2000	75	125	25	0	1870	93		2062	103		10	
Chlorobenzene	2000	2000	75	125	25	0	2145	107		2358	118		9	
1,1,1,2-Tetrachloroethane	2000	2000	75	125	25	0	2146	107		2411	121		12	

VOLATILE ORGANIC SOIL
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: C
GC Column: RTX-502.2
Column ID: 0.25 mm
Heated purge (Y/N): N

SDG: 73485
Non-spiked sample: BLK
Spike: LS08092C
Spike duplicate: LS08092C2

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
Ethylbenzene	2000	2000	75	125	25	0	2079	104		2257	113		8	
m,p-Xylene	4000	4000	75	125	25	0	4289	107		4856	121		12	
o-Xylene	2000	2000	75	125	25	0	2140	107		2375	119		10	
Styrene	2000	2000	75	125	25	0	1936	97		2131	107		10	
Bromoform	2000	2000	75	125	25	0	2136	107		2455	123		14	
Isopropylbenzene	2000	2000	75	125	25	0	2231	112		2448	122		9	
1,1,2,2-Tetrachloroethane	2000	2000	75	125	25	0	1923	96		2120	106		10	
1,2,3-Trichloropropane	2000	2000	75	125	25	0	1786	89		1944	97		8	
trans-1,4-Dichloro-2-butene	2000	2000	75	125	25	0	2000	100		2094	105		5	
n-Propylbenzene	2000	2000	75	125	25	0	1740	87		1930	96		10	
Bromobenzene	2000	2000	75	125	25	0	1595	80		1762	88		10	
1,3,5-Trimethylbenzene	2000	2000	75	125	25	0	1587	79		1815	91		13	
2-Chlorotoluene	2000	2000	75	125	25	0	1916	96		2154	108		12	
4-Chlorotoluene	2000	2000	75	125	25	0	1853	93		2096	105		12	
tert-butylbenzene	2000	2000	75	125	25	0	1956	98		2207	110		12	
1,2,4-Trimethylbenzene	2000	2000	75	125	25	0	1566	78		1776	89		13	
sec-butylbenzene	2000	2000	75	125	25	0	1835	92		2078	104		12	
p-isopropyltoluene	2000	2000	75	125	25	0	1784	89		1975	99		10	
1,3-Dichlorobenzene	2000	2000	75	125	25	0	2140	107		2494	125		15	
1,4-Dichlorobenzene	2000	2000	75	125	25	0	2108	105		2309	115		9	
n-butylbenzene	2000	2000	75	125	25	0	2075	104		2267	113		9	
1,2-Dichlorobenzene	2000	2000	75	125	25	0	2117	106		2334	117		10	
1,2-Dibromo-3-chloropropane	2000	2000	75	125	25	0	1773	89		1914	96		8	
1,2,4-Trichlorobenzene	2000	2000	75	125	25	0	1936	97		2091	105		8	
Hexachlorobutadiene	2000	2000	75	125	25	0	2012	101		2160	108		7	
Naphthalene	2000	2000	75	125	25	0	1758	88		1765	88		0	
1,2,3-Trichlorobenzene	2000	2000	75	125	25	0	2029	101		2208	110		8	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

VPH
DATA SUMMARIES

analytics environmental laboratory LLC

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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B101-S1

SAMPLE DATA

Lab Sample ID: 73485-1
Matrix: Solid
Percent Solid: 95
Dilution Factor: 53
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2650	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2650	µg/kg	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2650	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2650	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	530	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				98
Surrogate % Recovery (Trifluorotoluene) FID				95
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

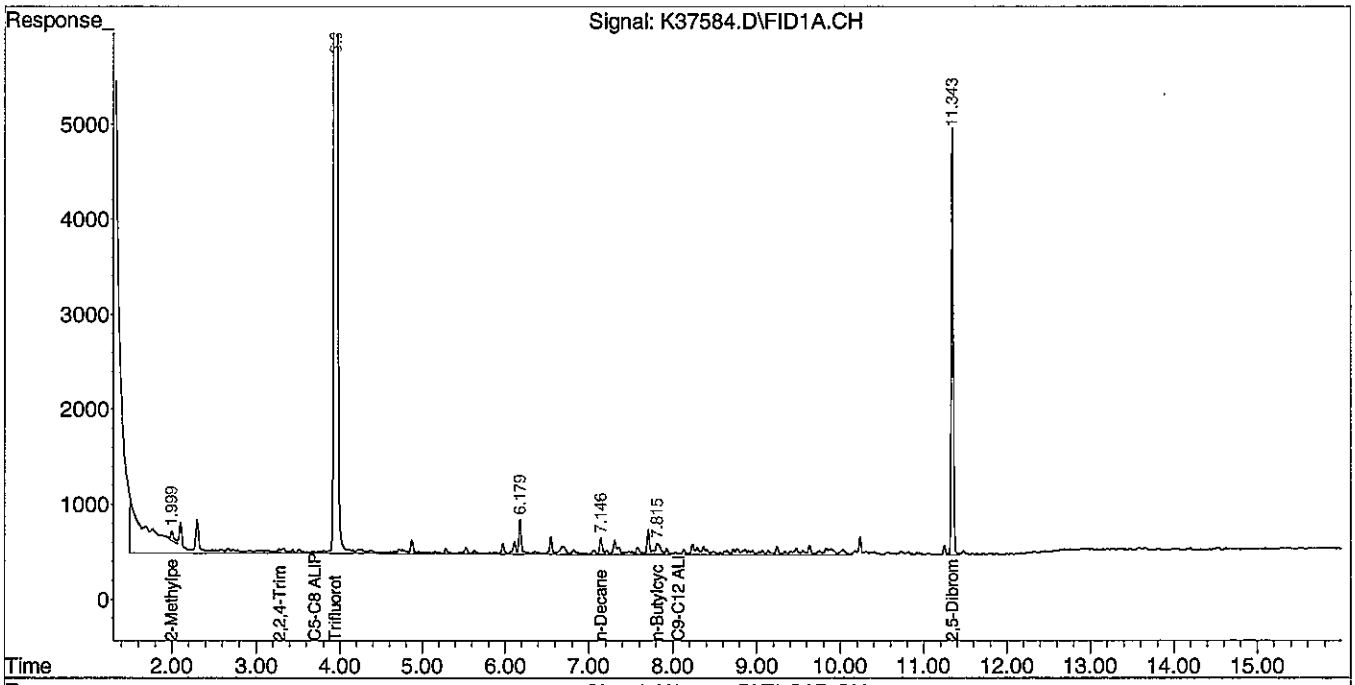
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

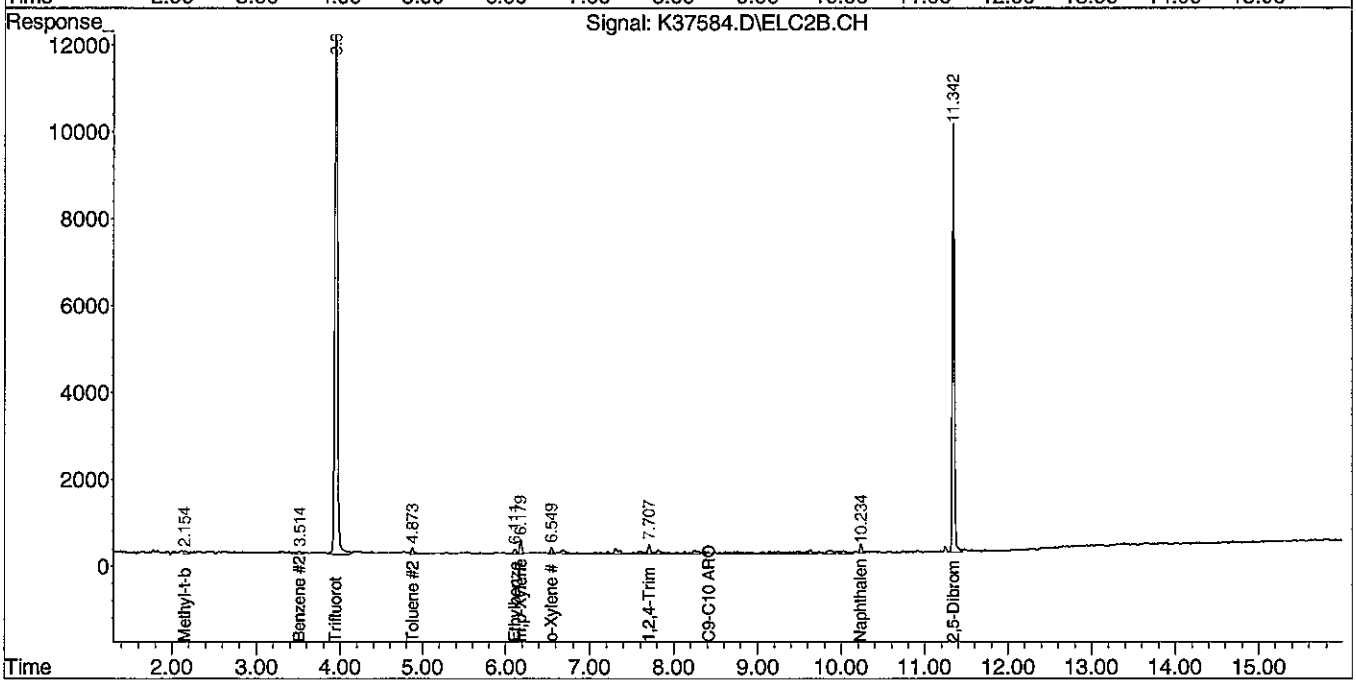
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37584.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 6:26 pm
Operator : AR/JK
Sample : 73485-1
Misc : 100,10.48,SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 09:04:28 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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400 Commercial Street Suite 404
Portland, ME 04101

August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B102-S5

SAMPLE DATA

Lab Sample ID: 73485-2
Matrix: Solid
Percent Solid: 76
Dilution Factor: 99
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	4950	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	4950	µg/kg	**3390 J**
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	4950	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	4950	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	990	µg/kg	**1280**
Surrogate % Recovery (Trifluorotoluene) PID				103
Surrogate % Recovery (Trifluorotoluene) FID				99
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

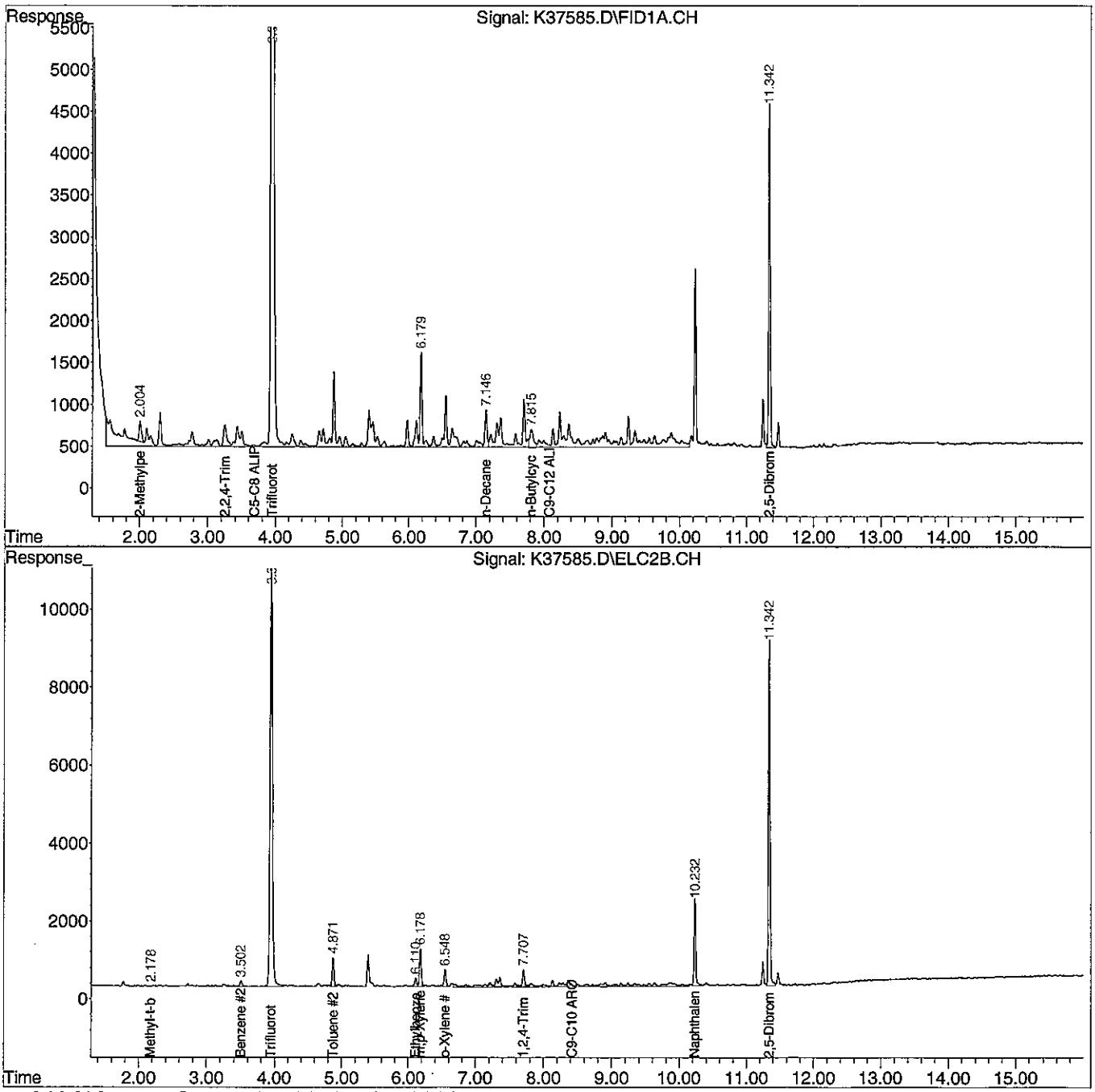
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37585.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 6:53 pm
Operator : AR/JK
Sample : 73485-2
Misc : 100,7.90,SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 09:04:29 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B103-S1

SAMPLE DATA

Lab Sample ID: 73485-3
Matrix: Solid
Percent Solid: 97
Dilution Factor: 60
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

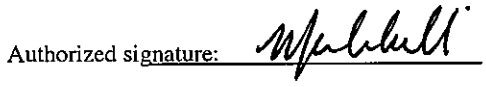
VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	3000	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	3000	µg/kg	**2770 J**
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	3000	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	3000	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	600	µg/kg	**1350**
Surrogate % Recovery (Trifluorotoluene) PID				97
Surrogate % Recovery (Trifluorotoluene) FID				97
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

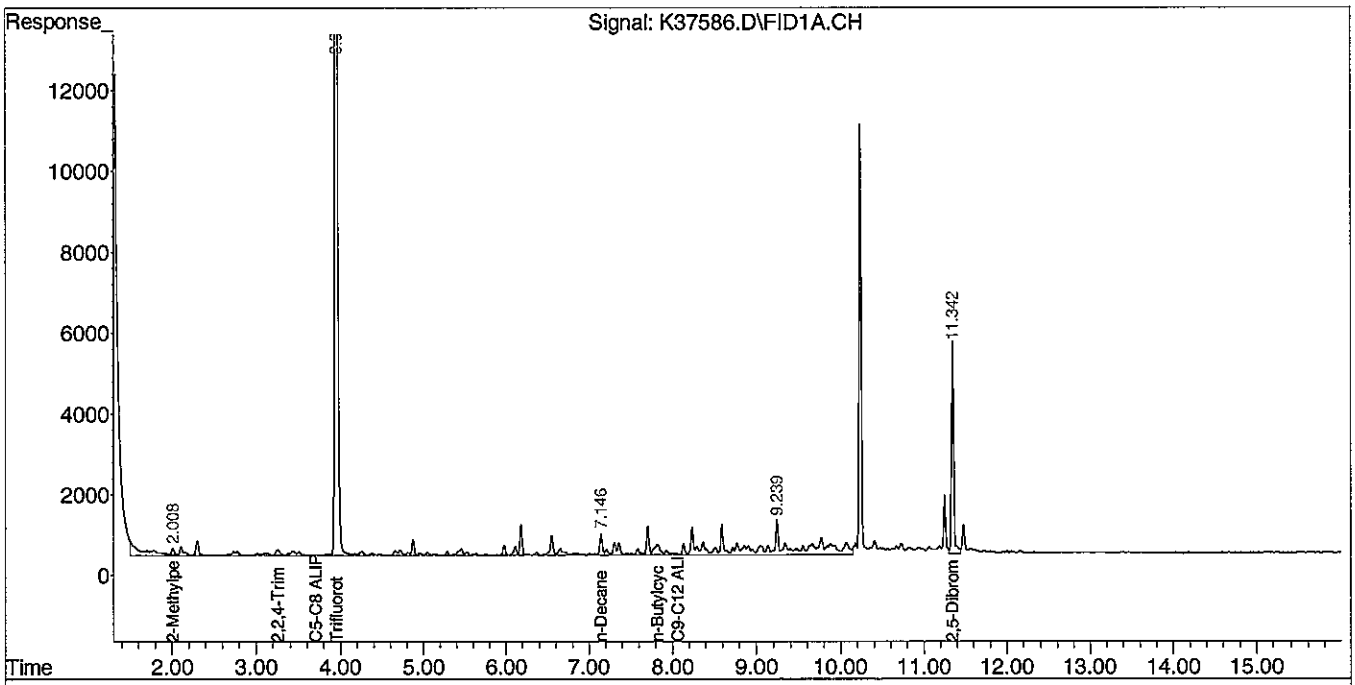
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

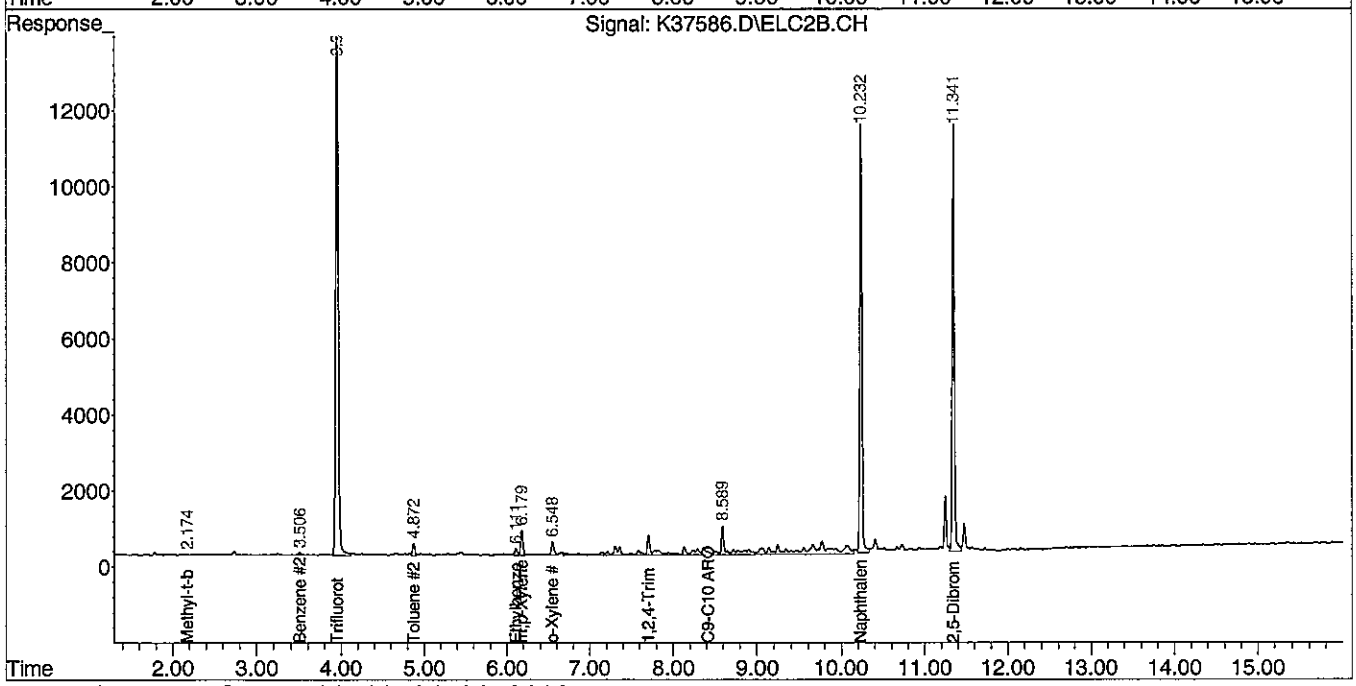
Authorized signature: 

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37586.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 7:19 pm
Operator : AR/JK
Sample : 73485-3
Misc : 100,8.86,SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 09:04:30 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B104-S3

SAMPLE DATA

Lab Sample ID: 73485-4
Matrix: Solid
Percent Solid: 88
Dilution Factor: 61
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	3050	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	3050	µg/kg	**14800**
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	3050	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	3050	µg/kg	**6370**
C9-C10 Aromatic Hydrocarbons[1]	N/A	610	µg/kg	**8340**
Surrogate % Recovery (Trifluorotoluene) PID				93
Surrogate % Recovery (Trifluorotoluene) FID				94
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

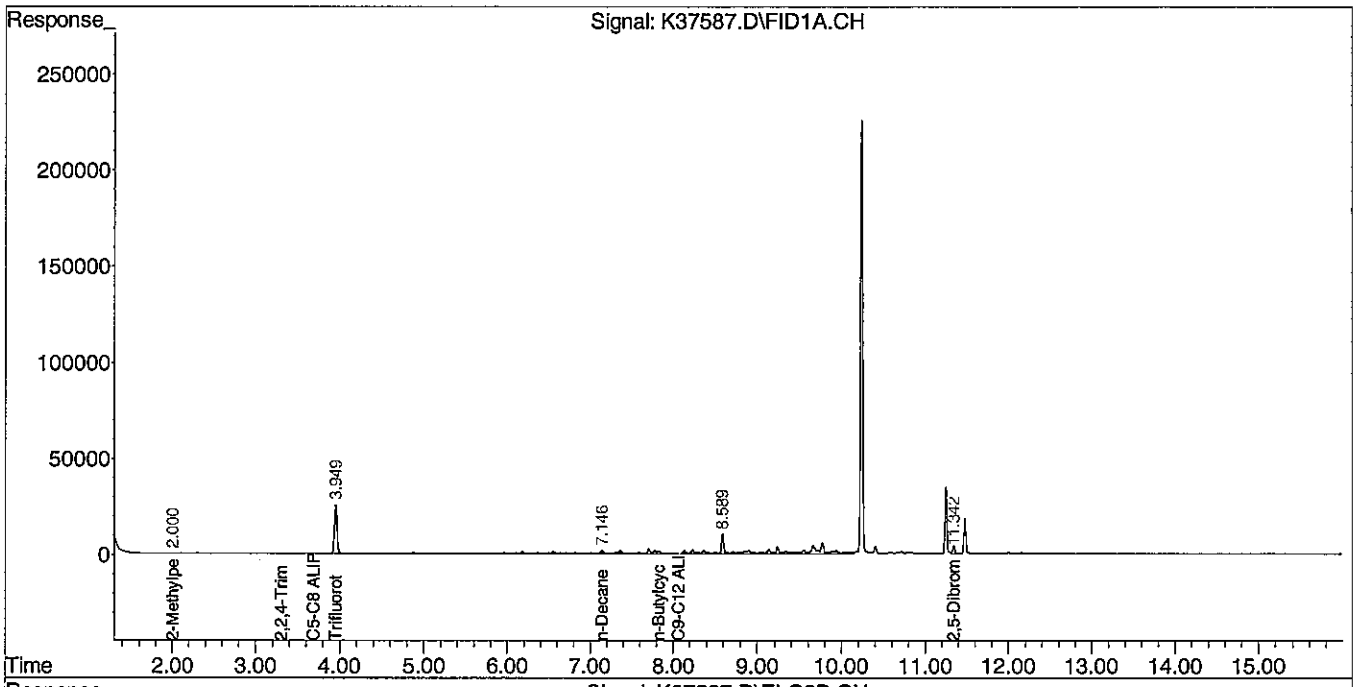
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

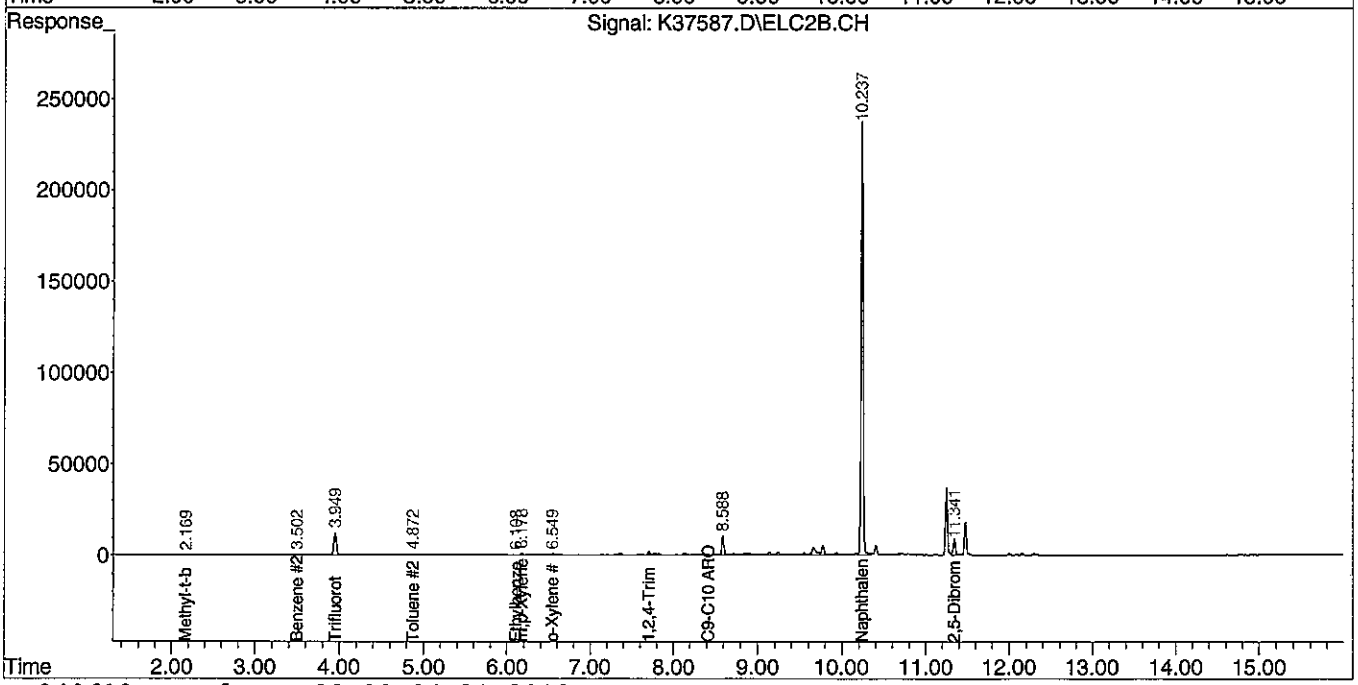
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37587.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 7:47 pm
Operator : AR/JK
Sample : 73485-4
Misc : 100,10.48,SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 09:04:31 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS101

SAMPLE DATA

Lab Sample ID: 73485-5
Matrix: Solid
Percent Solid: 94
Dilution Factor: 54
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2700	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2700	µg/kg	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2700	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2700	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	540	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				92
Surrogate % Recovery (Trifluorotoluene) FID				93
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

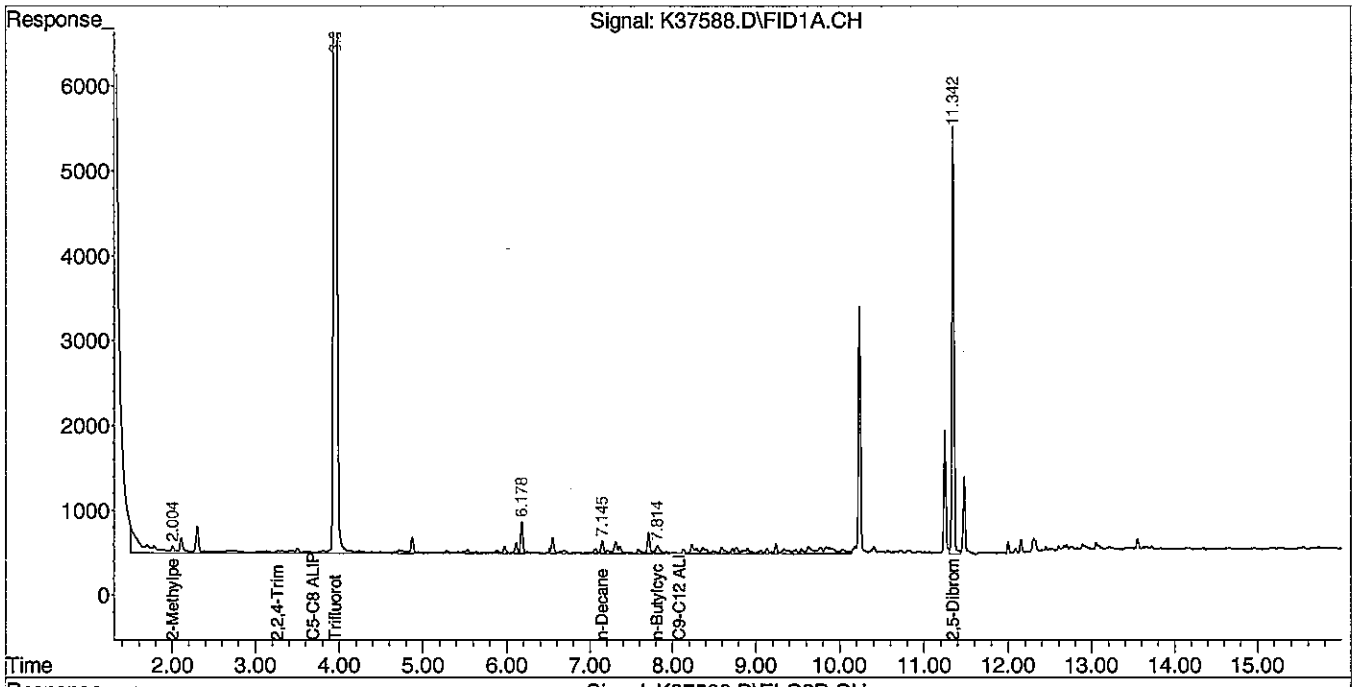
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

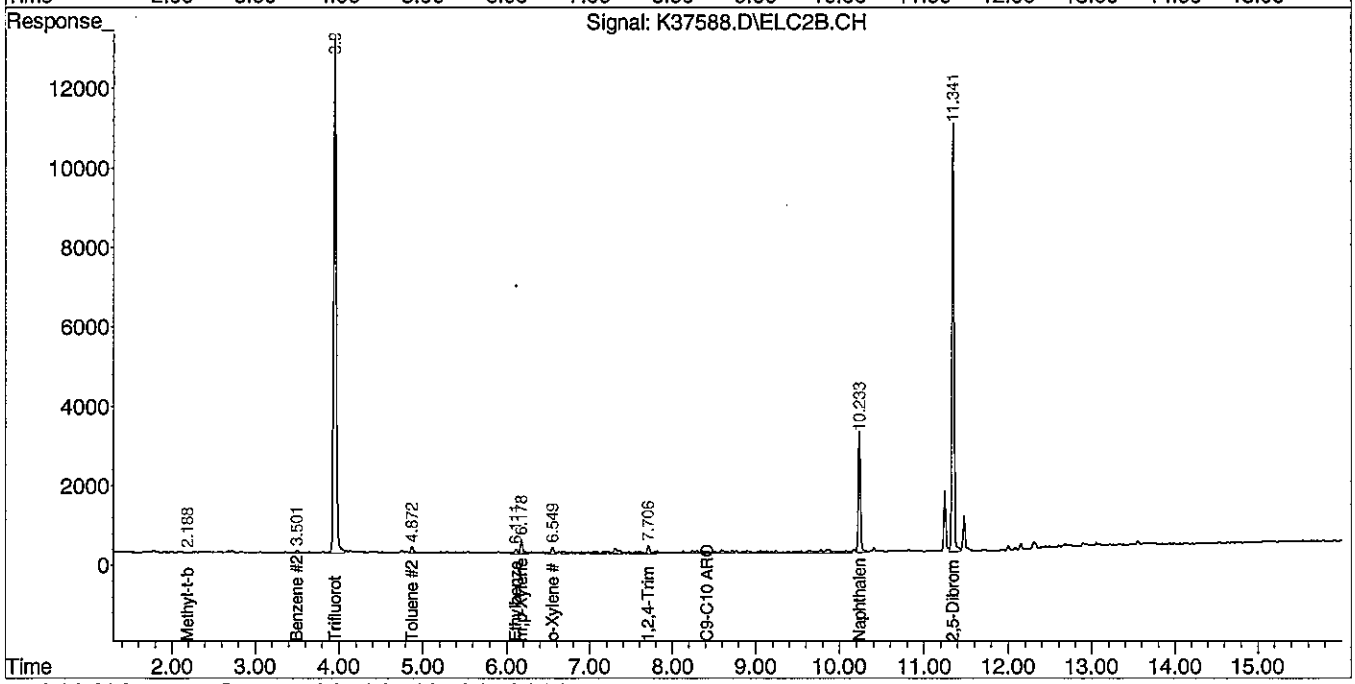
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37588.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 8:14 pm
Operator : AR/JK
Sample : 73485-5
Misc : 100,12.51,SOIL,,12 ML FV
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 10:43:10 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS102

SAMPLE DATA

Lab Sample ID: 73485-6
Matrix: Solid
Percent Solid: 91
Dilution Factor: 52
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2600	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2600	µg/kg	**1590 J**
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2600	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2600	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	520	µg/kg	**774**
Surrogate % Recovery (Trifluorotoluene) PID				96
Surrogate % Recovery (Trifluorotoluene) FID				95
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

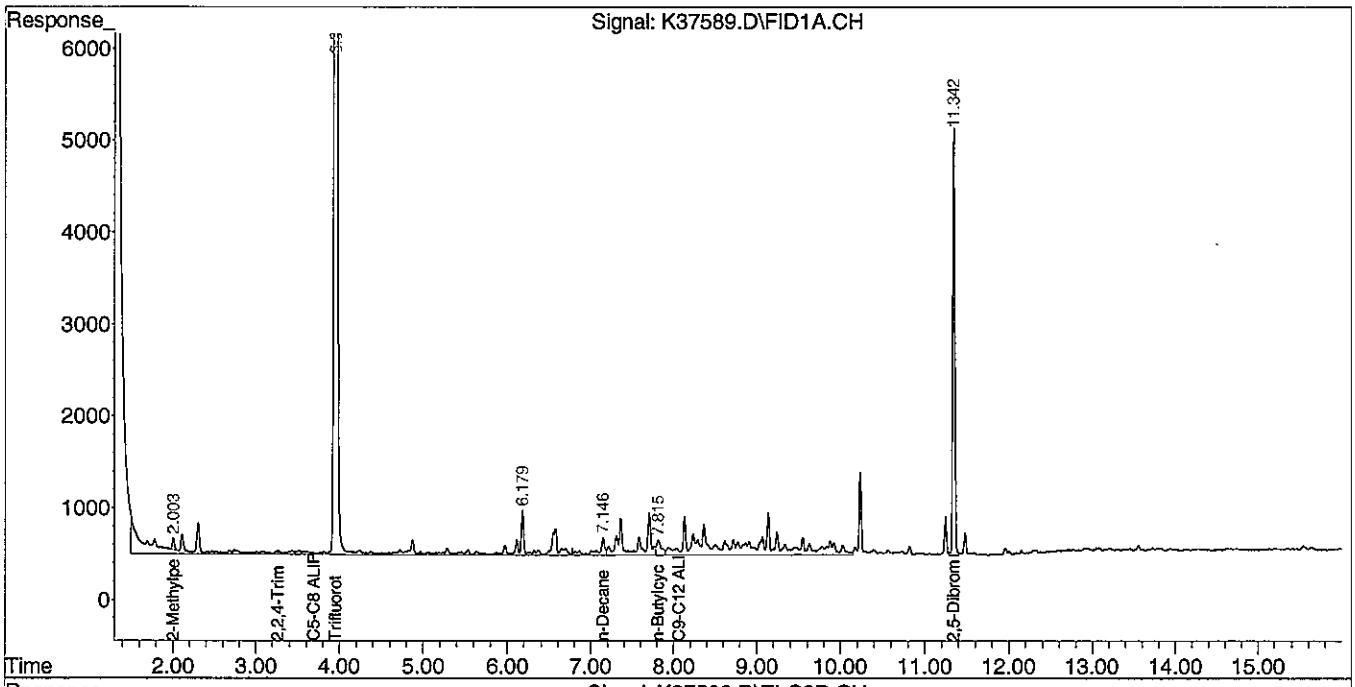
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

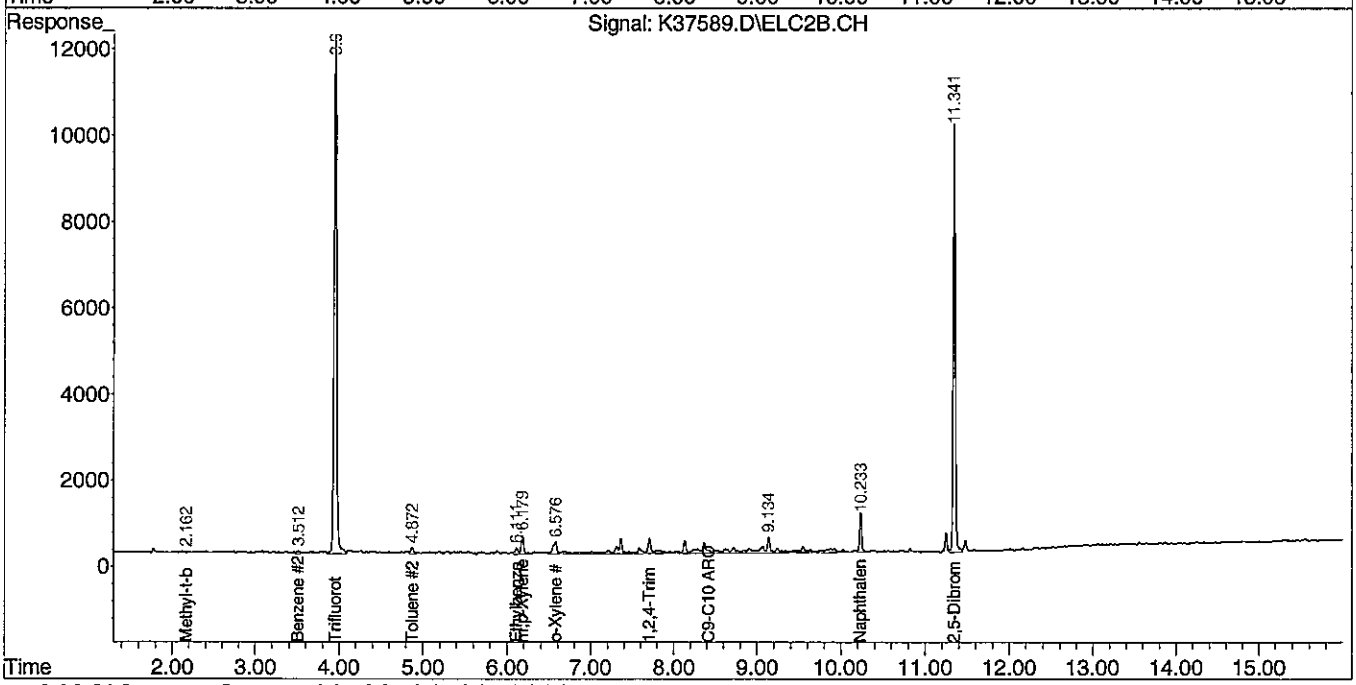
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37589.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 8:41 pm
Operator : AR/JK
Sample : 73485-6
Misc : 100,11.68,SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 09:04:33 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS103

SAMPLE DATA

Lab Sample ID: 73485-7
Matrix: Solid
Percent Solid: 95
Dilution Factor: 51
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2550	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2550	µg/kg	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2550	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2550	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	510	µg/kg	575
Surrogate % Recovery (Trifluorotoluene) PID				94
Surrogate % Recovery (Trifluorotoluene) FID				94
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

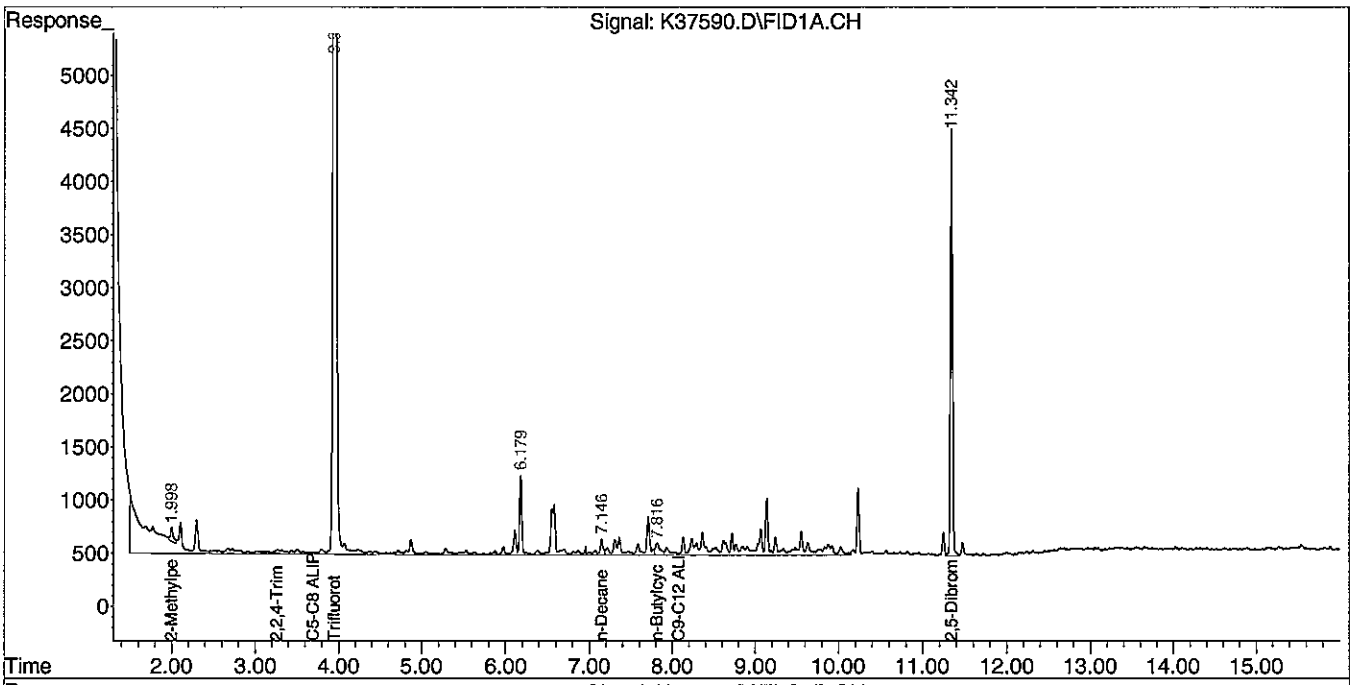
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

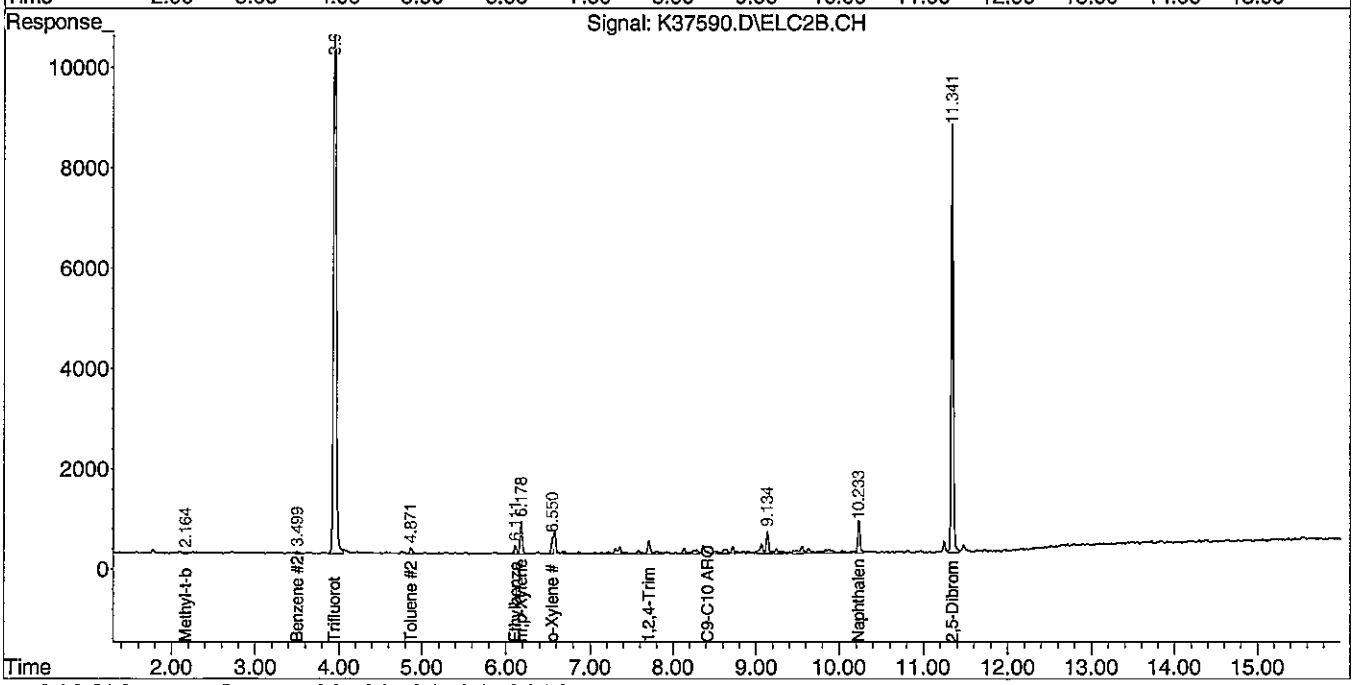
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37590.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 9:07 pm
Operator : AR/JK
Sample : 73485-7
Misc : 100,12.81,SOIL,,12 ML FV
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 09:04:34 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS104

SAMPLE DATA

Lab Sample ID: 73485-8
Matrix: Solid
Percent Solid: 94
Dilution Factor: 54
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2700	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2700	µg/kg	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2700	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2700	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	540	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				95
Surrogate % Recovery (Trifluorotoluene) FID				96
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

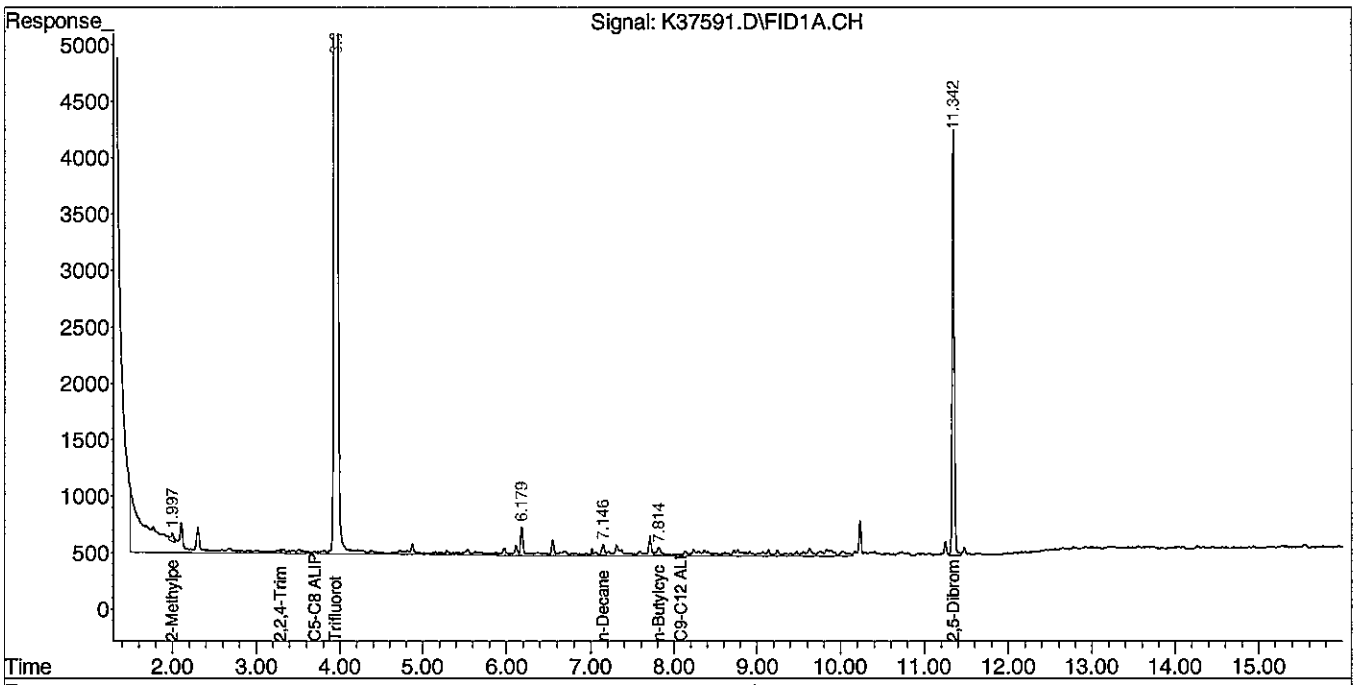
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

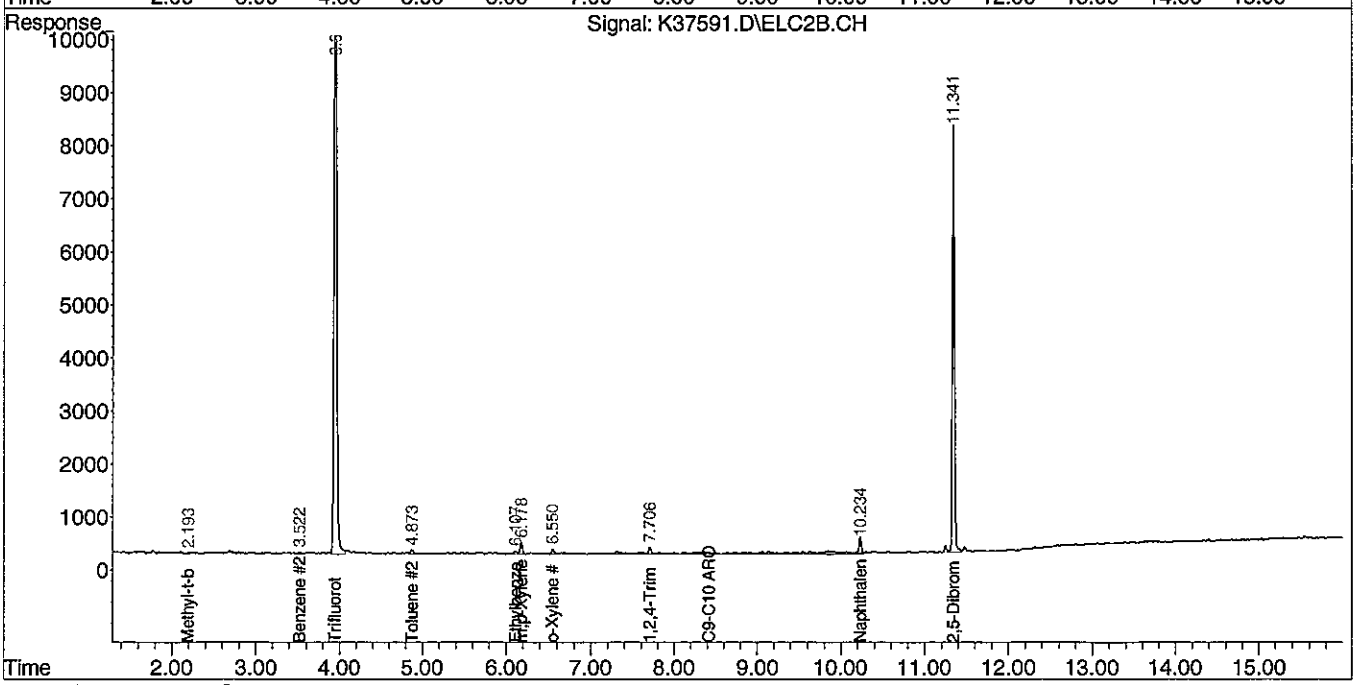
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37591.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 9:34 pm
Operator : AR/JK
Sample : 73485-8
Misc : 100,20.78,SOIL,,20 ML FV
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 09:04:35 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Mr. Peter Sherr
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400 Commercial Street Suite 404
Portland, ME 04101

August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS105

SAMPLE DATA

Lab Sample ID: 73485-9
Matrix: Solid
Percent Solid: 86
Dilution Factor: 64
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	3200	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	3200	µg/kg	**1650 J**
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	3200	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	3200	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	640	µg/kg	**802**
Surrogate % Recovery (Trifluorotoluene) PID				102
Surrogate % Recovery (Trifluorotoluene) FID				103
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

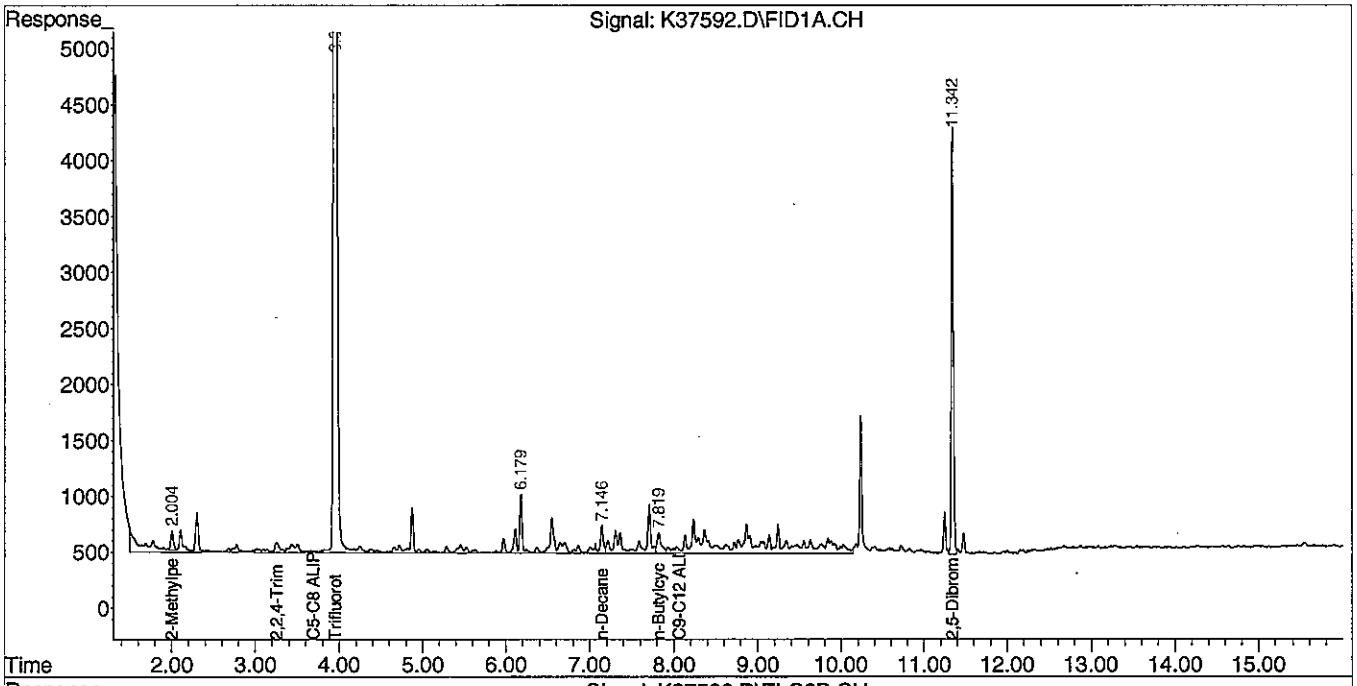
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

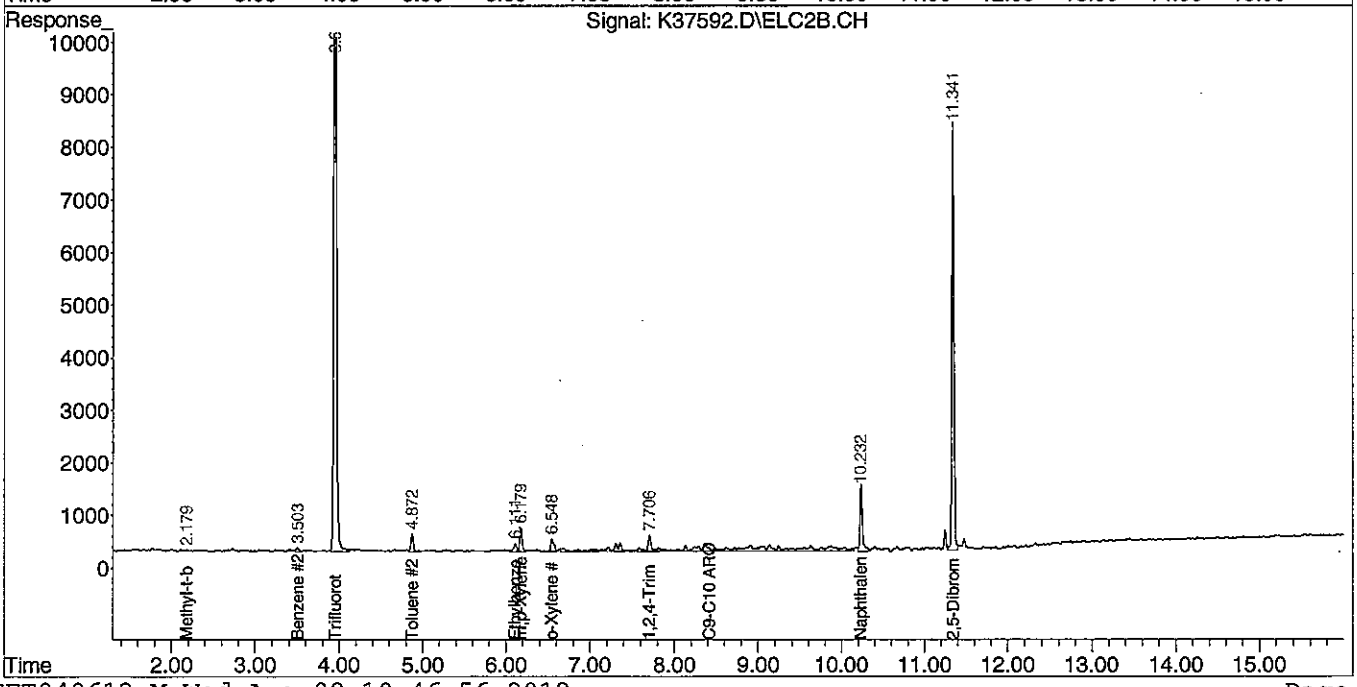
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37592.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 10:01 pm
Operator : AR/JK
Sample : 73485-9
Misc : 100,10.45,SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 10:46:46 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS10X

SAMPLE DATA

Lab Sample ID: 73485-10
Matrix: Solid
Percent Solid: 94
Dilution Factor: 50
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2500	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2500	µg/kg	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2500	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2500	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	500	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				93
Surrogate % Recovery (Trifluorotoluene) FID				93
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

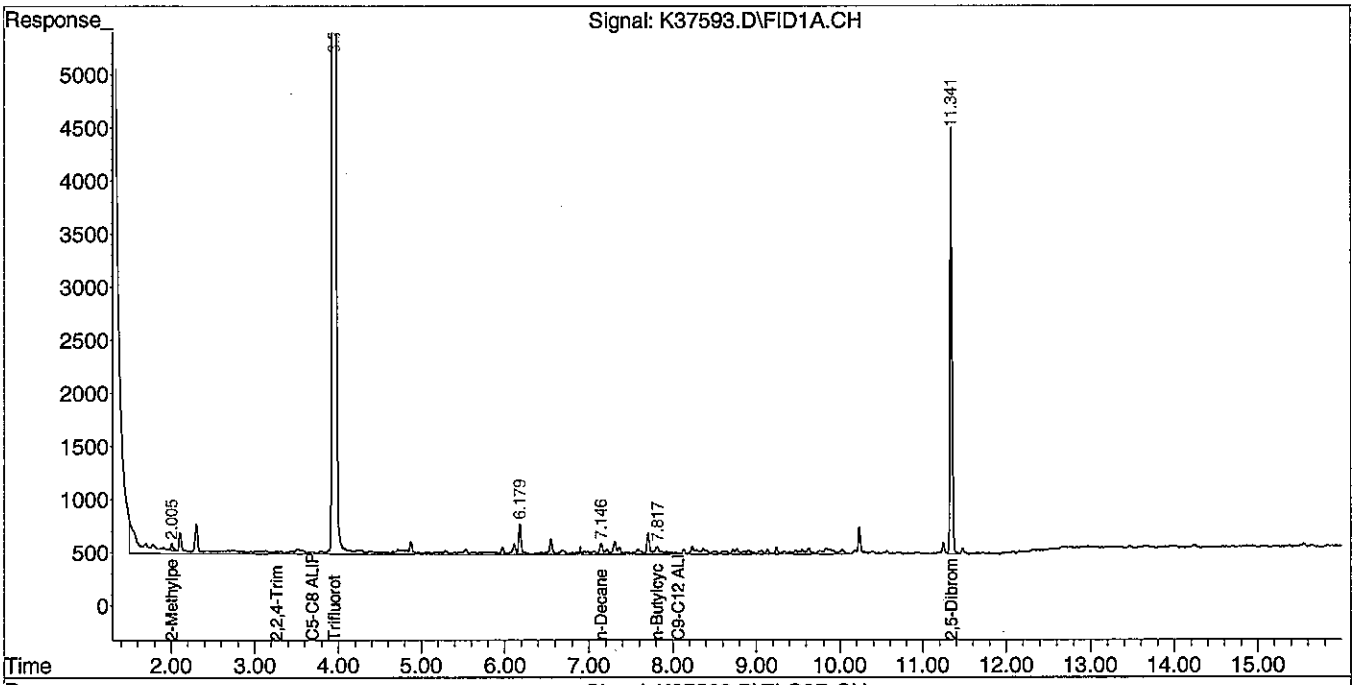
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

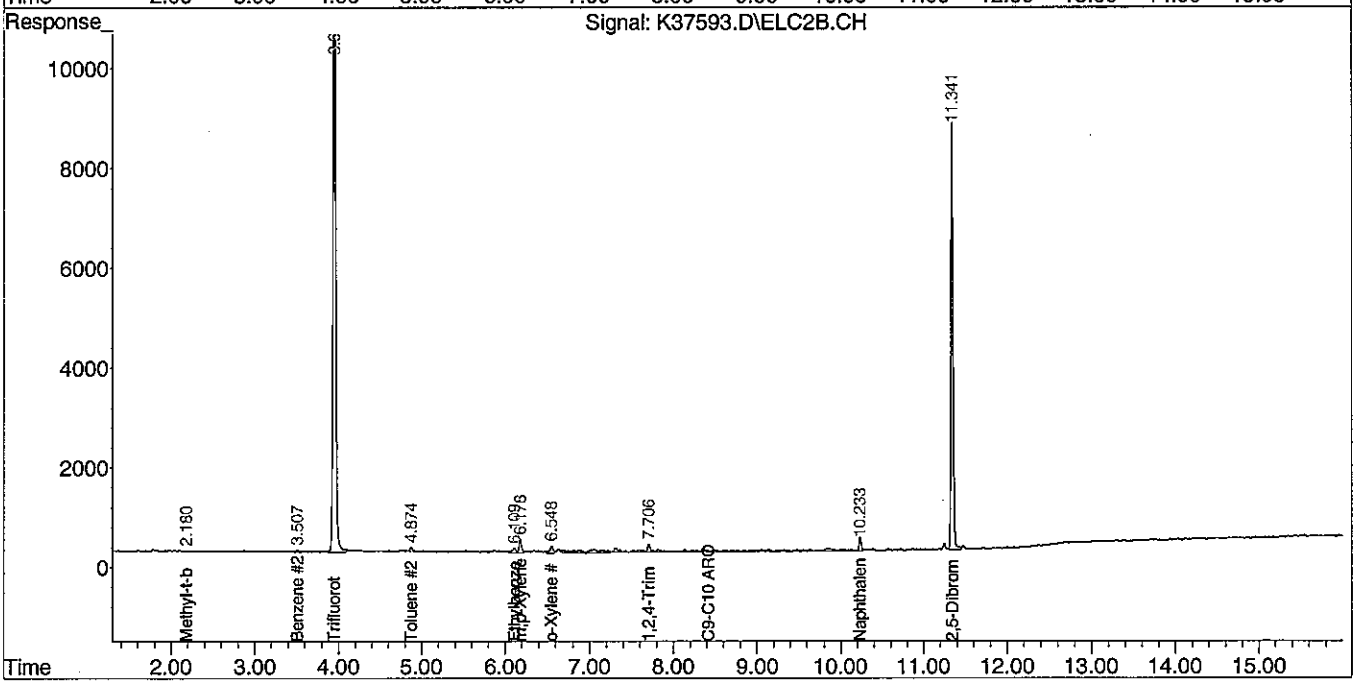
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37593.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 10:28 pm
Operator : AR/JK
Sample : 73485-10
Misc : 100,11.25,SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 10:47:36 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW101

SAMPLE DATA

Lab Sample ID: 73485-11
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (Trifluorotoluene) PID				116
Surrogate % Recovery (Trifluorotoluene) FID				116
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

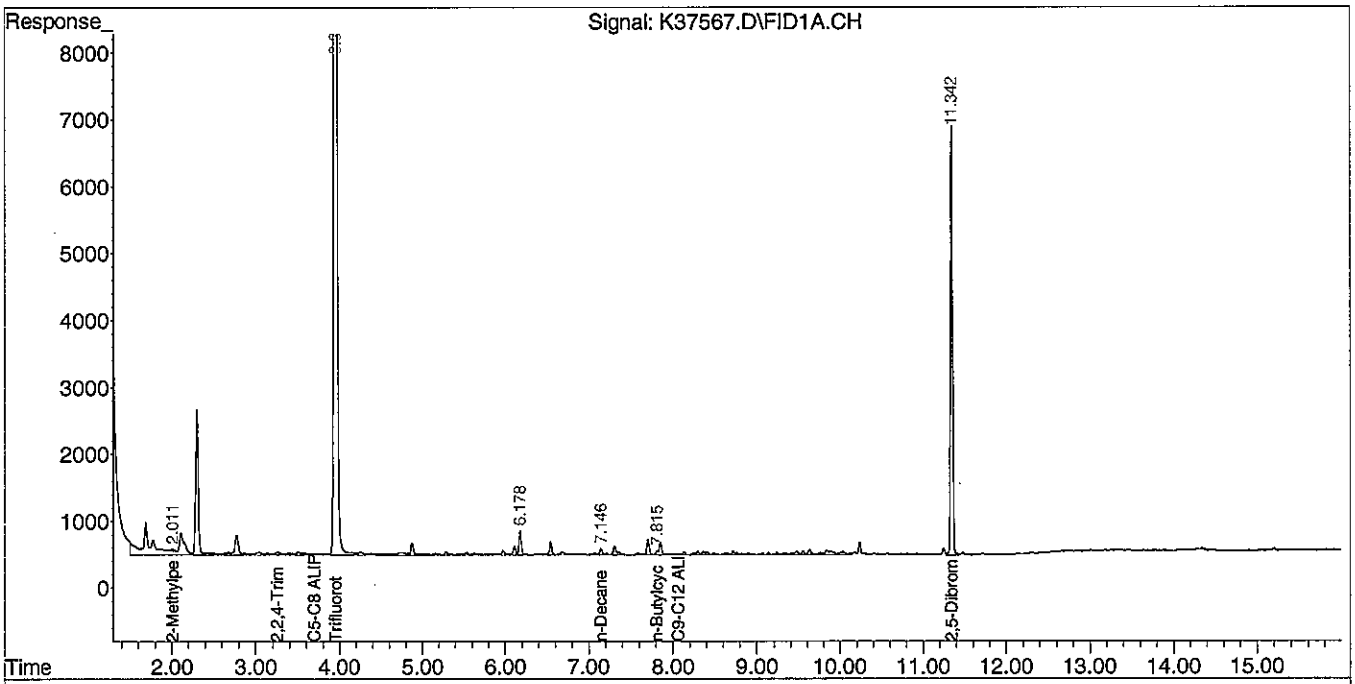
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

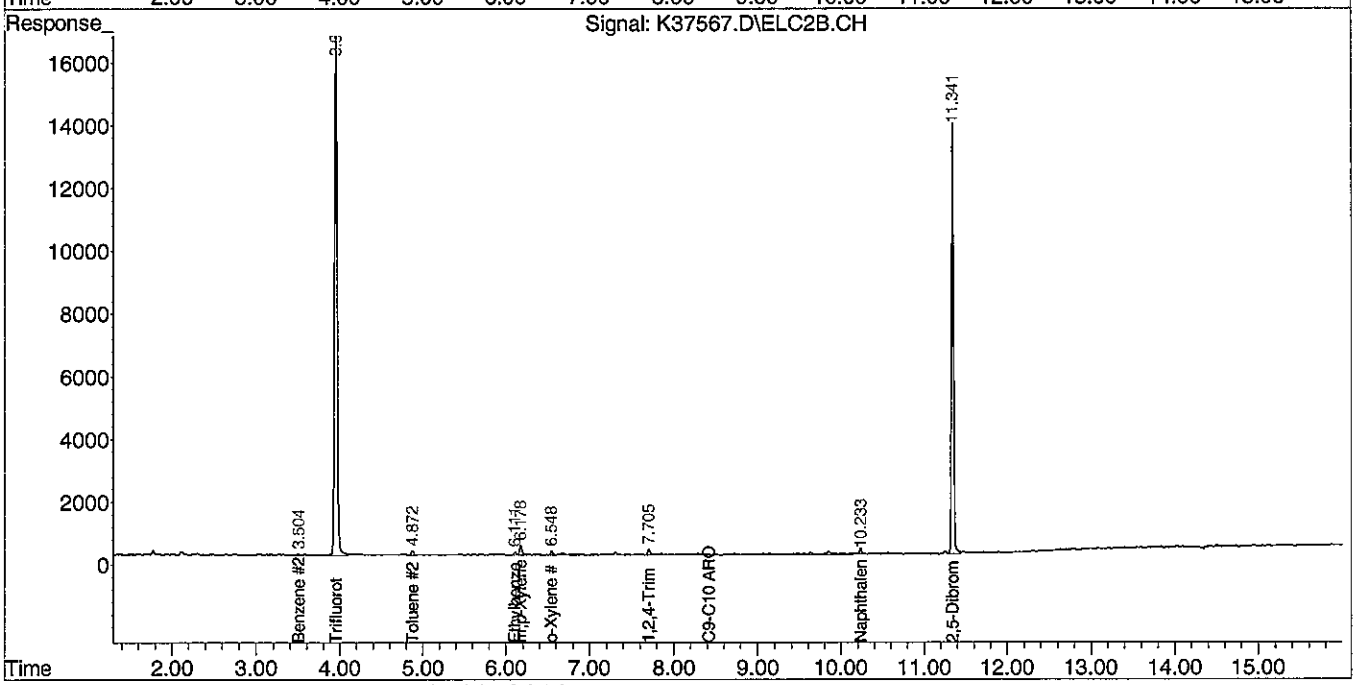
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37567.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 10:01 am
Operator : AR
Sample : 73485-11
Misc : 5000
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 10:23:09 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW102

SAMPLE DATA

Lab Sample ID: 73485-12
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	**11**
Surrogate % Recovery (Trifluorotoluene) PID				110
Surrogate % Recovery (Trifluorotoluene) FID				111
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

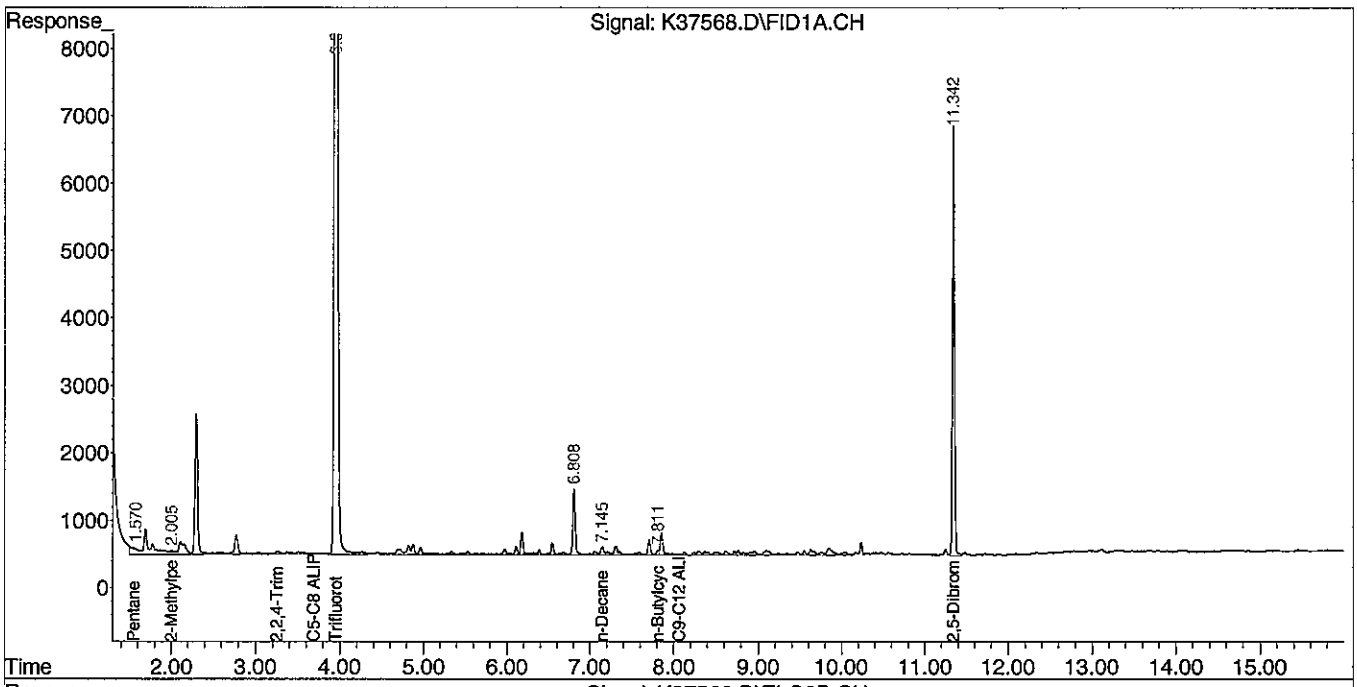
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

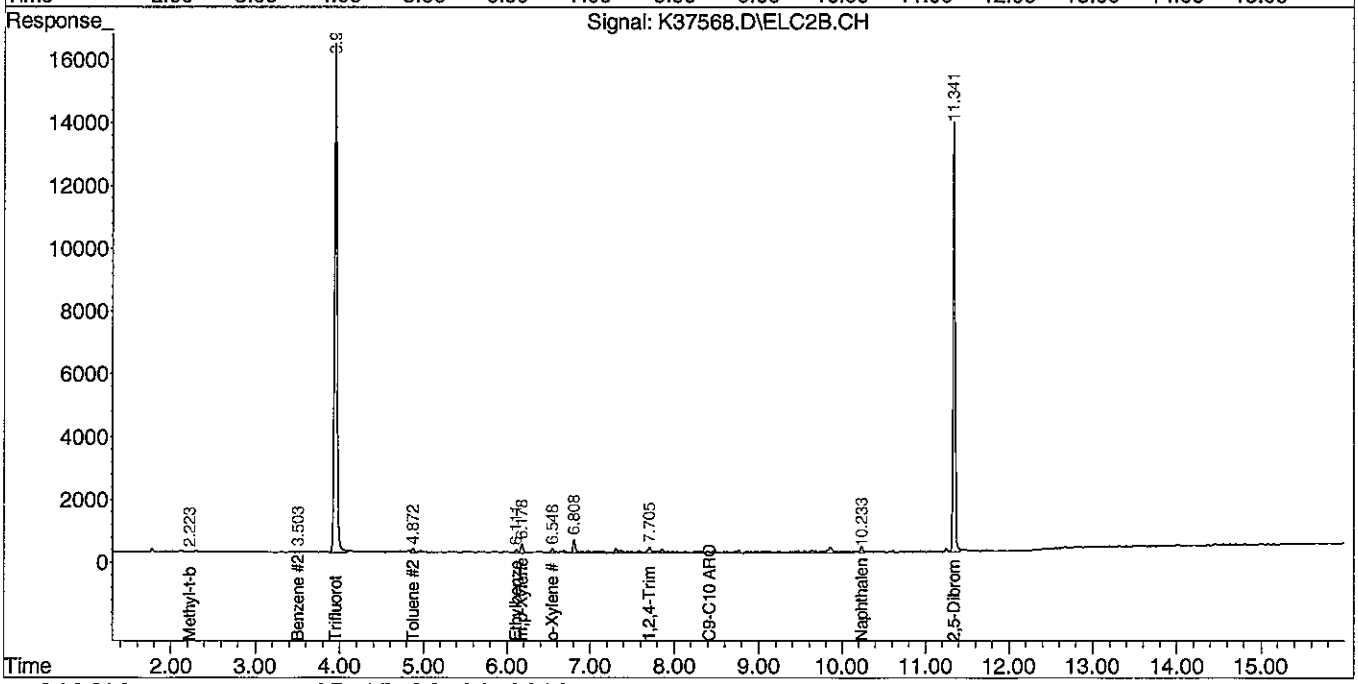
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37568.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 10:28 am
Operator : AR
Sample : 73485-12
Misc : 5000
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 15:37:56 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW103

SAMPLE DATA

Lab Sample ID: 73485-13
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (Trifluorotoluene) PID				110
Surrogate % Recovery (Trifluorotoluene) FID				111
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

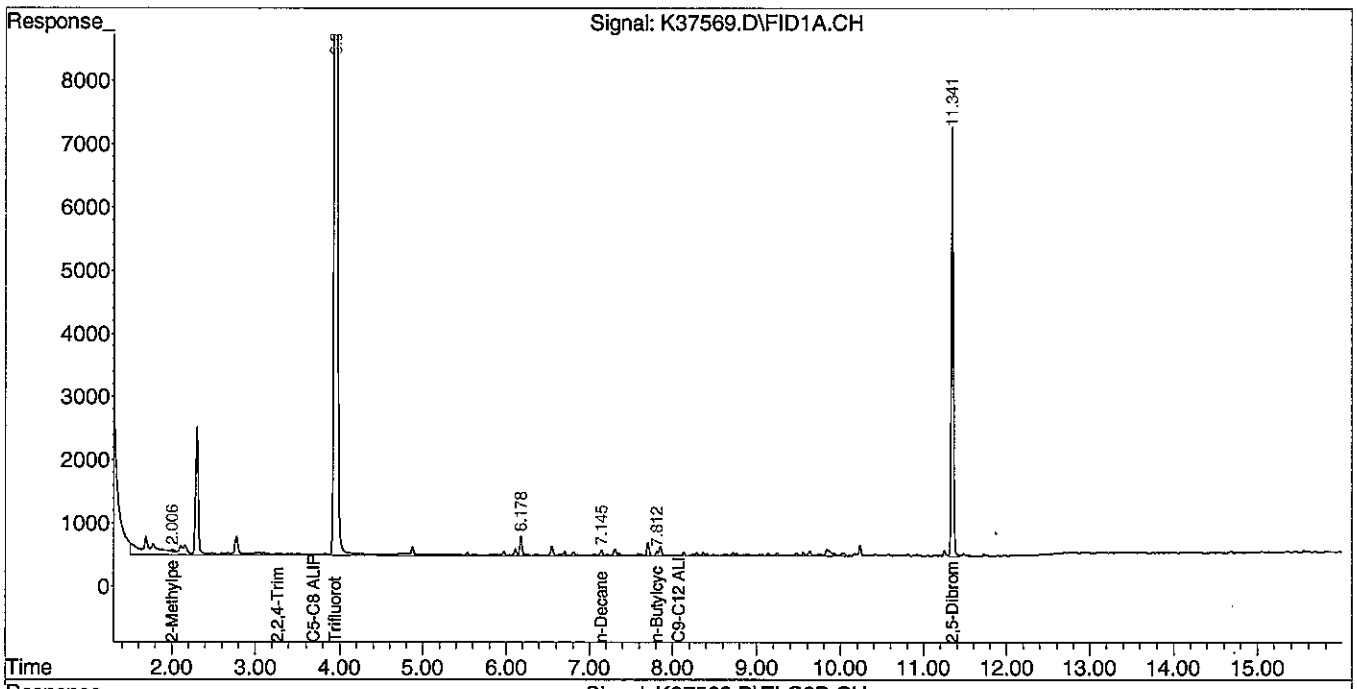
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

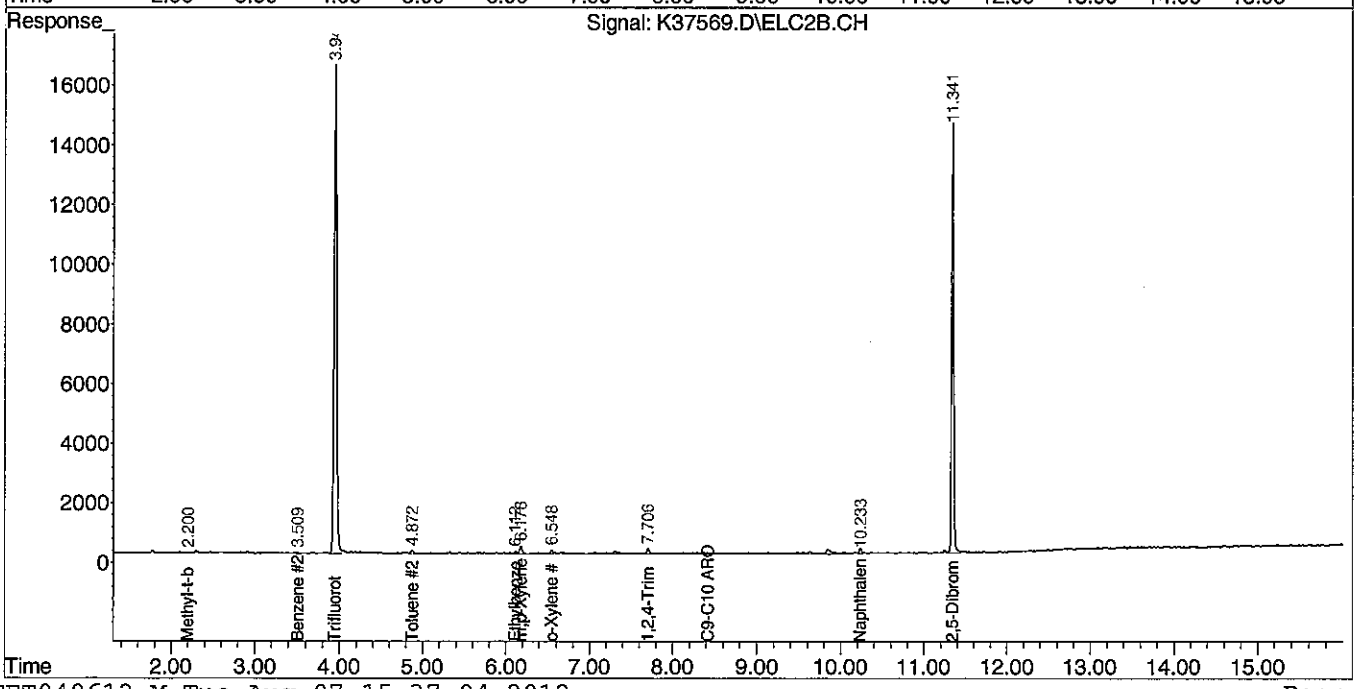
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37569.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 10:55 am
Operator : AR
Sample : 73485-13
Misc : 5000
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 15:37:04 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW104

SAMPLE DATA

Lab Sample ID: 73485-14
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	**12**
Surrogate % Recovery (Trifluorotoluene) PID				112
Surrogate % Recovery (Trifluorotoluene) FID				111
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

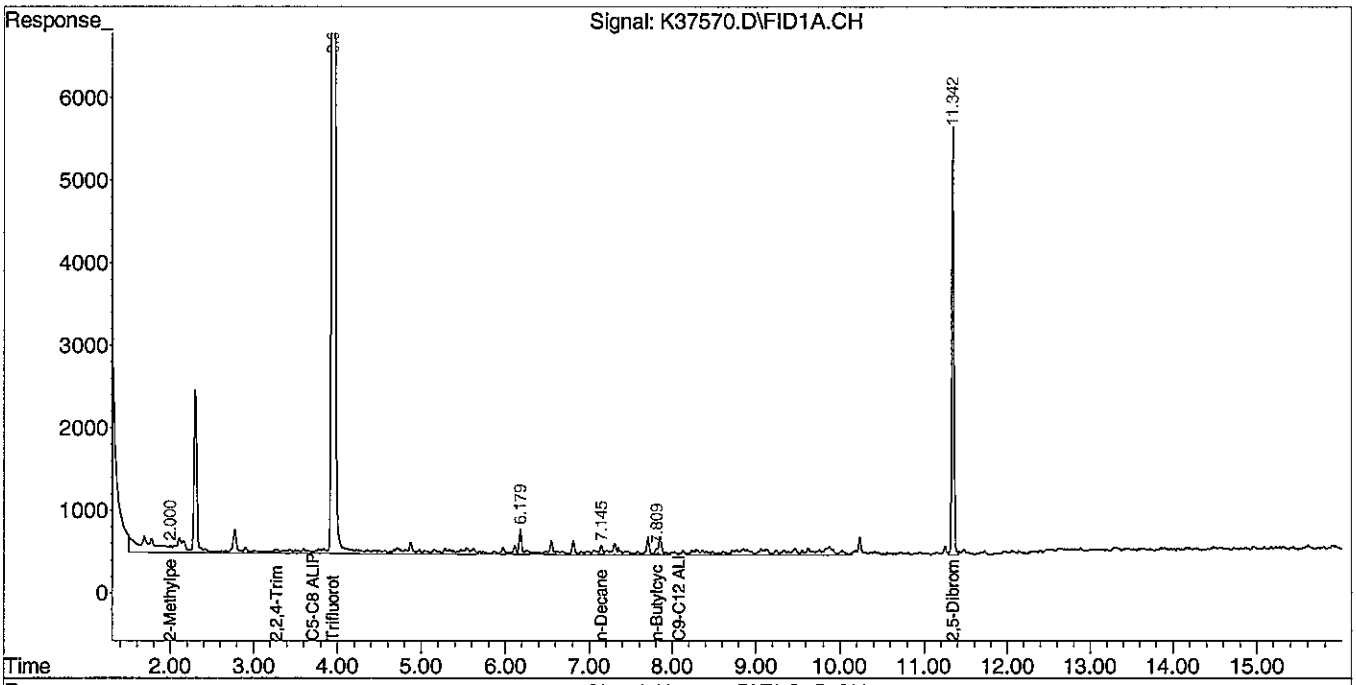
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

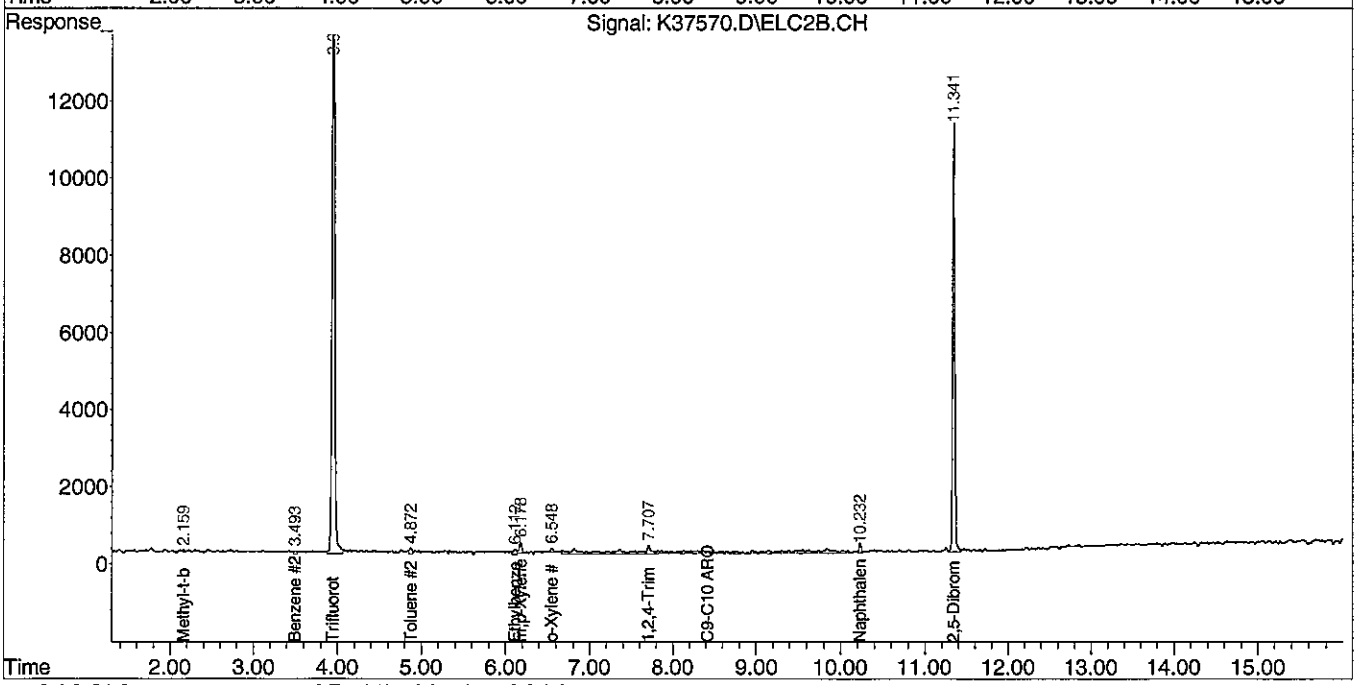
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37570.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 11:22 am
Operator : AR
Sample : 73485-14
Misc : 5000
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 15:40:38 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MWX

SAMPLE DATA

Lab Sample ID: 73485-15
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	14
Surrogate % Recovery (Trifluorotoluene) PID				113
Surrogate % Recovery (Trifluorotoluene) FID				110
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

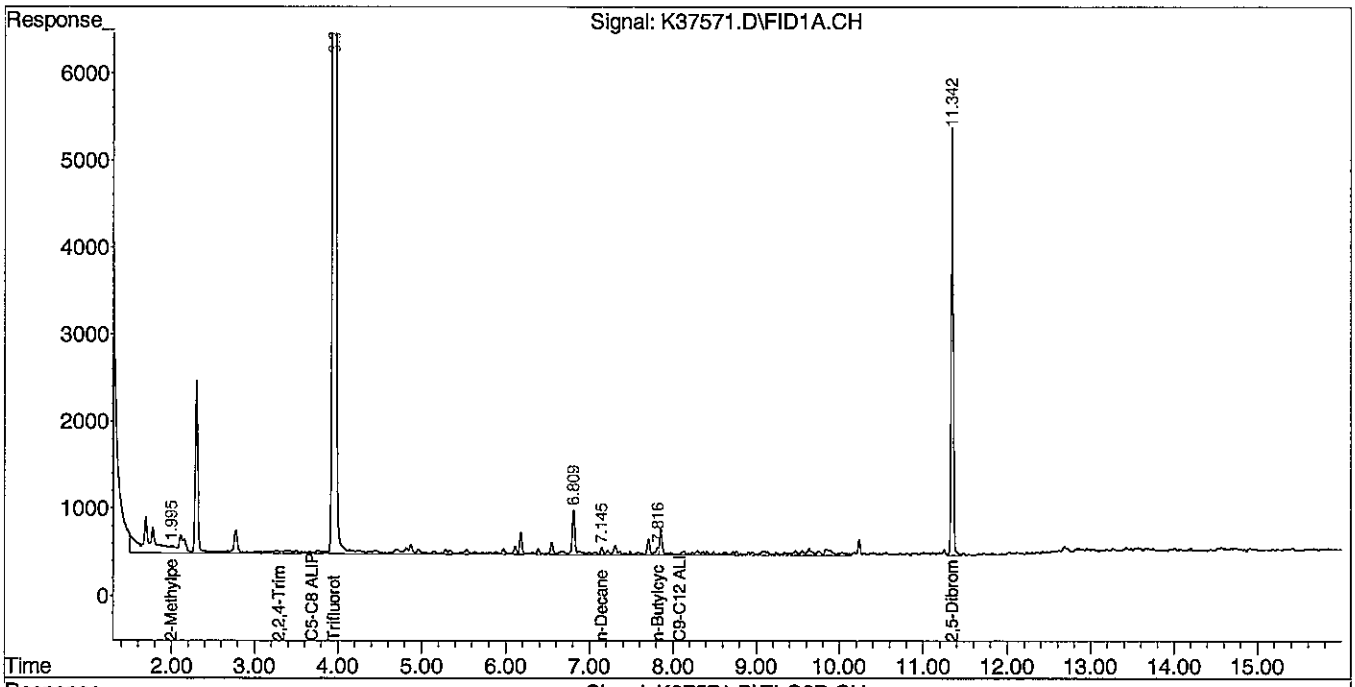
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

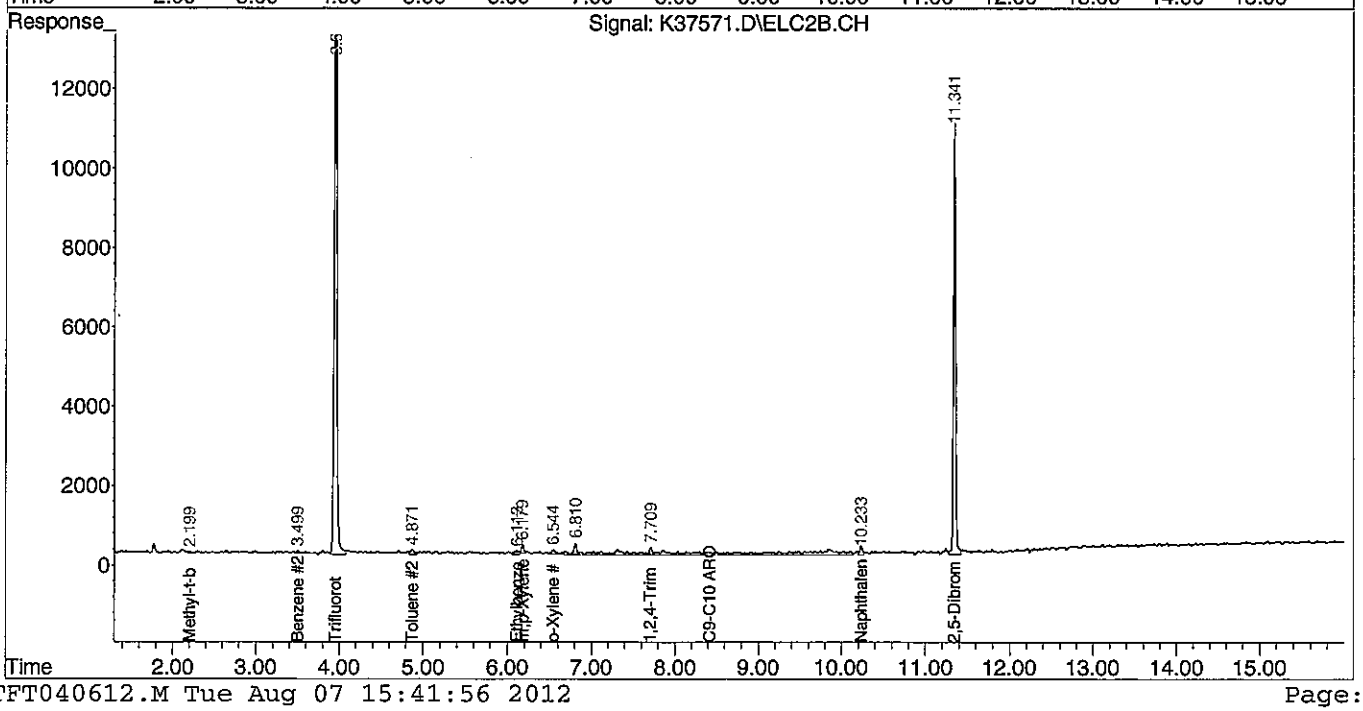
Authorized signature: 

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37571.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 11:49 am
Operator : AR
Sample : 73485-15
Misc : 5000
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 15:41:44 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





VPH
QC FORMS

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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: LabQC

SAMPLE DATA

Lab Sample ID: BV080612K4
Matrix: Aqueous
Percent Solid: NA
Dilution Factor: 1
Collection Date:
Lab Receipt Date:
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (Trifluorotoluene) PID				115
Surrogate % Recovery (Trifluorotoluene) FID				114
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

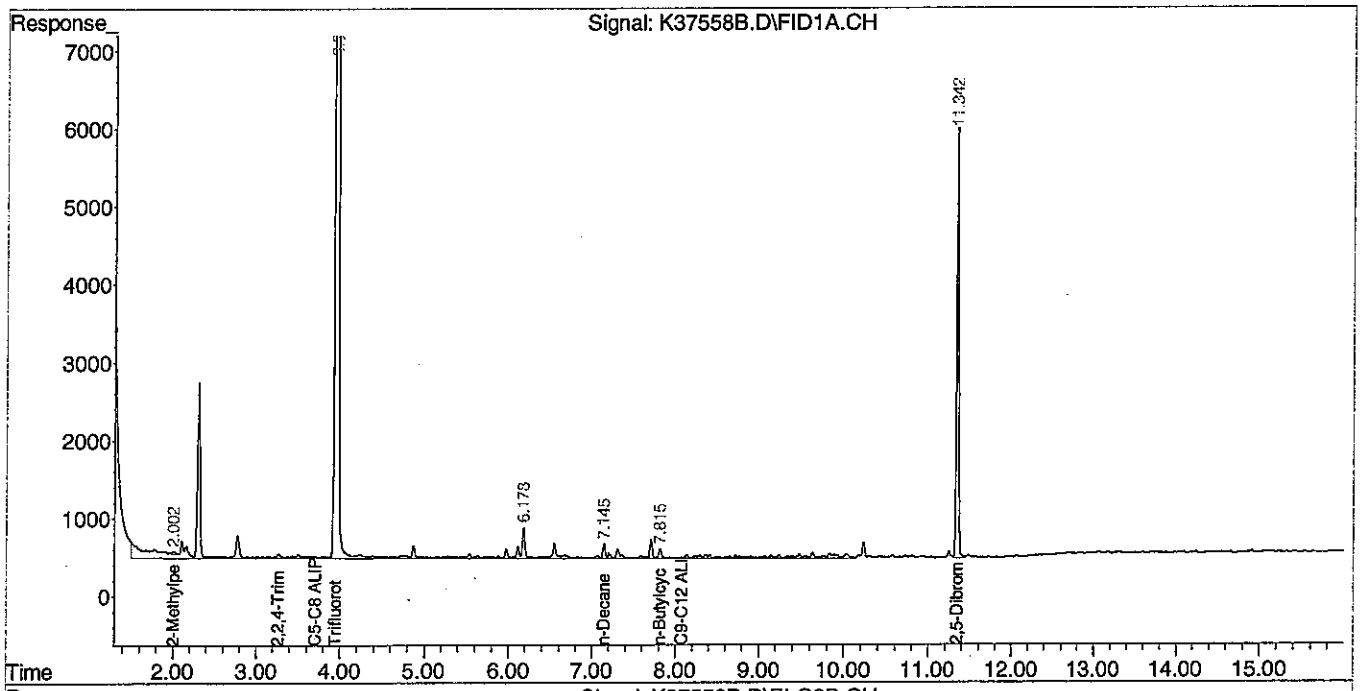
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

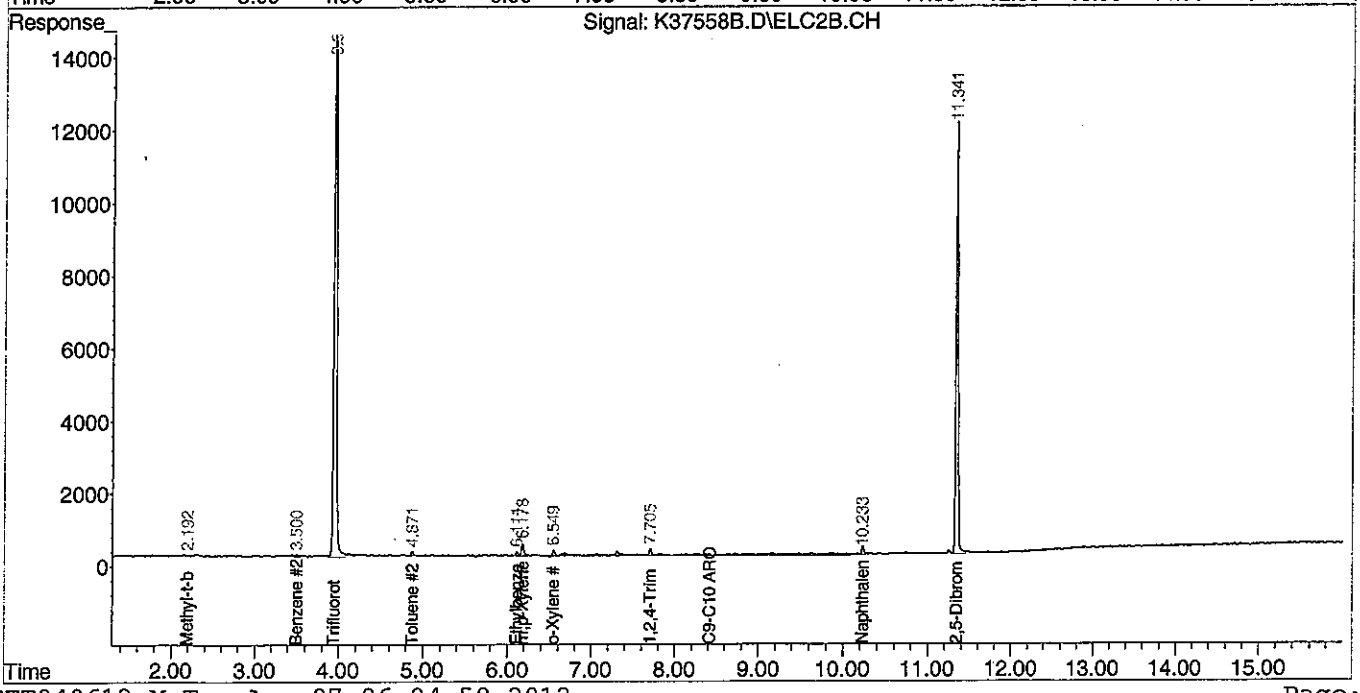
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37558B.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 5:44 am
Operator : AR
Sample : BV080612K4
Misc : 5000
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 06:04:47 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: LabQC

SAMPLE DATA

Lab Sample ID: MBV080712K
Matrix: Soil
Percent Solid: N/A
Dilution Factor: 50
Collection Date:
Lab Receipt Date:
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2500	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2500	µg/kg	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2500	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2500	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	500	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				90
Surrogate % Recovery (Trifluorotoluene) FID				90
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. 0f C9-C10 Aromatic Hydrocarbons.
*Recovery is outside the laboratory acceptance criteria. RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis,Revision 1.1 May 2004.

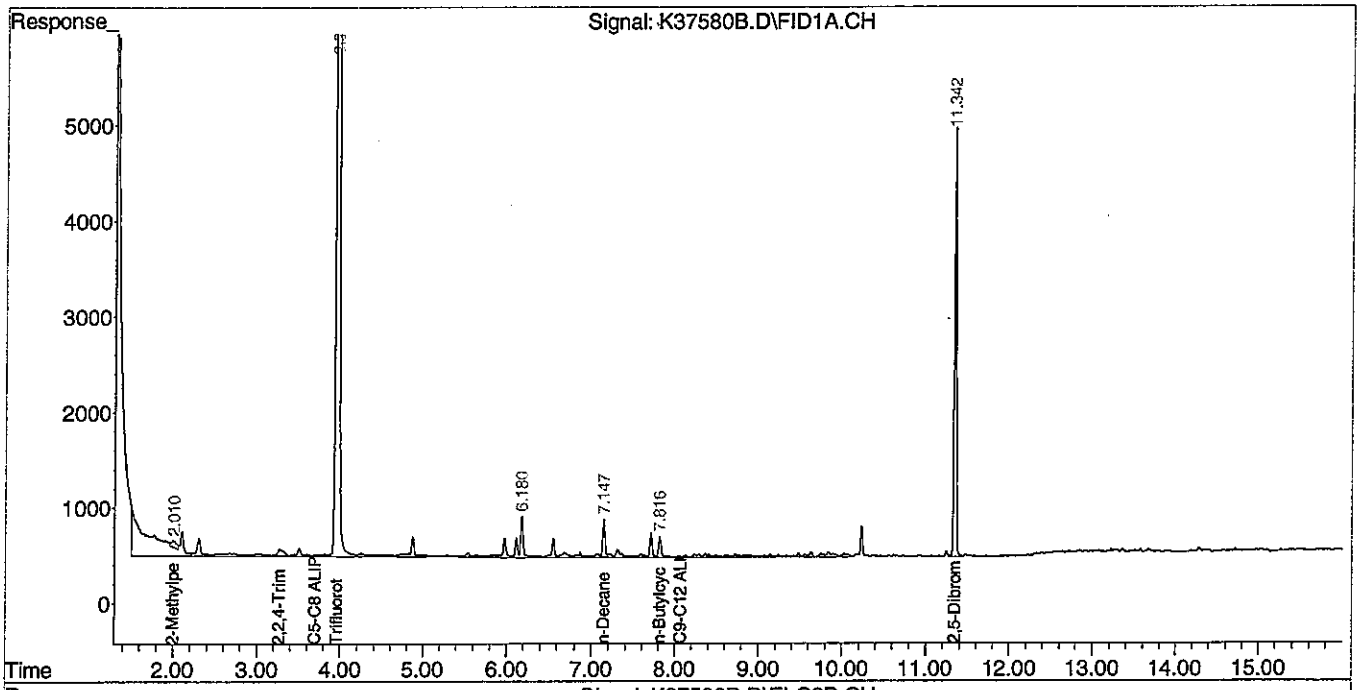
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

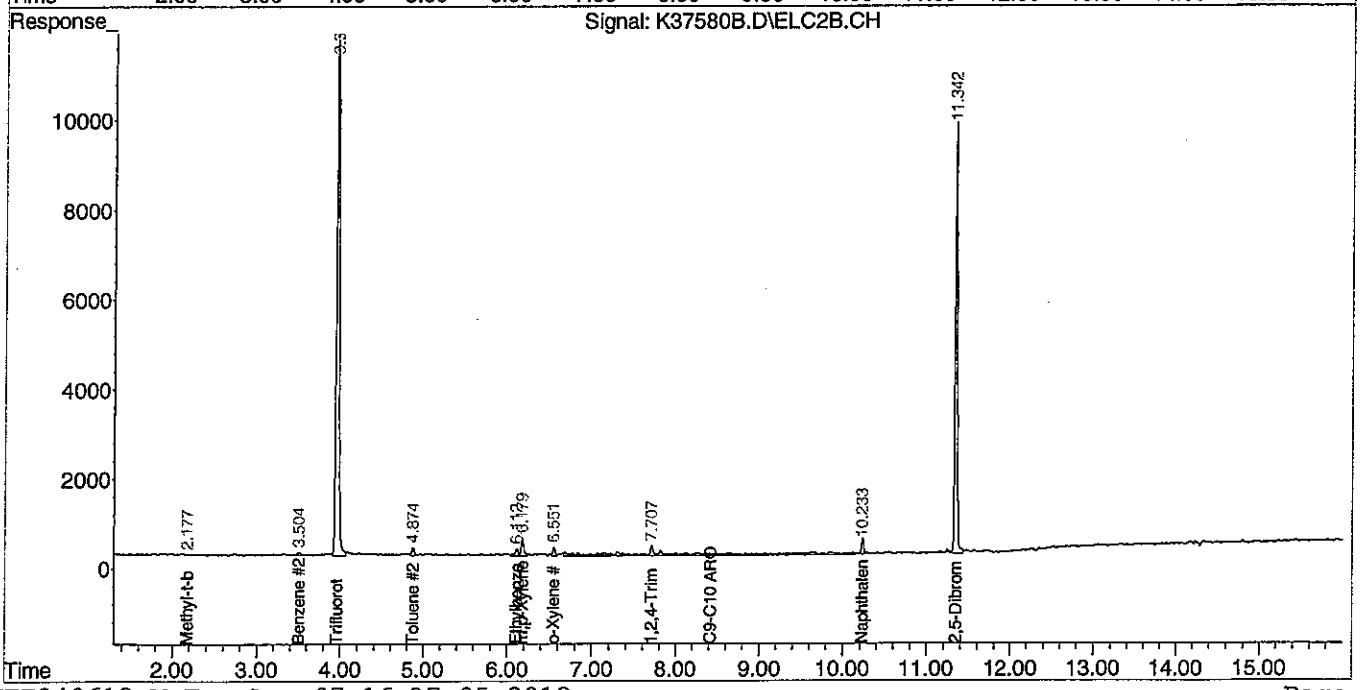
Authorized signature:

Data Path : C:\msdchem\1\DATA\080612-K\
Data File : K37580B.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 07 Aug 2012 4:20 pm
Operator : AR/JK
Sample : MBV080712K
Misc : 100,10.00,SOIL
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 16:37:04 2012
Quant Method : C:\msdchem\1\METHODS\VPHTFT040612.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Mon Apr 09 09:06:00 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





VOLATILE PETROLEUM HYDROCARBONS
LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: K
GC Column: RTX-502.2
Column ID: 0.25 mm

SDG:
Non-spiked sample: BV080612K4
Spike: LV080612K3
Spike duplicate: LV080612K4

COMPOUND	SPIKE ADDED	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
Pentane	100	70	130	25	0.0	107	107		103	103		4	
2-Methylpentane	100	70	130	25	0.0	105	105		100	100		5	
2,2,4-Trimethylpentane	100	70	130	25	0.0	108	108		101	101		8	
n-Decane	100	70	130	25	0.0	105	105		106	106		1	
n-Butylcyclohexane	100	70	130	25	0.0	89	89		87	87		2	
Methyl-t-butylether #2	100	70	130	25	0.0	103	103		98	98		5	
Benzene #2	100	70	130	25	0.0	107	107		100	100		7	
Toluene #2	100	70	130	25	0.0	106	106		100	100		6	
Ethylbenzene #2	100	70	130	25	0.0	104	104		97	97		7	
m,p-Xylene #2	200	70	130	25	0.0	213	106		199	99		7	
o-Xylene #2	100	70	130	25	0.0	106	106		98	98		7	
1,2,4-Trimethylbenzene #2	100	70	130	25	0.0	105	105		97	97		8	
Naphthalene #2	100	70	130	25	0.0	103	103		103	103		0	
C5-C8 Aliphatics	300	70	130	25	0.0	321	107		304	101		5	
C9-C12 Aliphatics	200	70	130	25	0.0	194	97		193	97		0	
C9-C10 Aromatics #2	100	70	130	25	0.0	105	105		97	97		8	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

VOLATILE PETROLEUM HYDROCARBONS SOIL
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: K
GC Column: RTX-502.2
Column ID: 0.25 mm

SDG:
Non-spiked sample: MBV080712K
Spike: LSV080712K
Spike duplicate: LSV080712K2

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
Pentane	5000	5000	70	130	25	0	4335	87		4228	85		2	
2-Methylpentane	5000	5000	70	130	25	0	4638	93		4447	89		4	
2,2,4-Trimethylpentane	5000	5000	70	130	25	0	5222	104		4928	99		6	
n-Decane	5000	5000	70	130	25	0	6203	124		5760	115		7	
n-Butylcyclohexane	5000	5000	70	130	25	0	5007	100		4599	92		8	
Methyl-t-butylether #2	5000	5000	70	130	25	0	6379	128		6140	123		4	
Benzene #2	5000	5000	70	130	25	0	6334	127		6045	121		5	
Toluene #2	5000	5000	70	130	25	0	6378	128		6037	121		6	
Ethylbenzene #2	5000	5000	70	130	25	0	6221	124		5944	119		5	
m,p-Xylene #2	10000	10000	70	130	25	0	12827	128		12119	121		6	
o-Xylene #2	5000	5000	70	130	25	0	6414	128		6116	122		5	
1,2,4-Trimethylbenzene #2	5000	5000	70	130	25	0	6228	125		5912	118		5	
Naphthalene #2	5000	5000	70	130	25	0	5935	119		5818	116		2	
C5-C8 Aliphatics	15000	15000	70	130	25	0	14195	95		13603	91		4	
C9-C12 Aliphatics	10000	10000	70	130	25	0	11209	112		10359	104		8	
C9-C10 Aromatics #2	5000	5000	70	130	25	0	6228	125		5912	118		5	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

analytics environmental laboratory LLC

EPH
DATA SUMMARIES

Analytics environmental laboratory LLC

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August 8, 2012

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CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B101-S1

SAMPLE DATA

Lab Sample ID: 73485-1
Matrix: Solid
Percent Solid: 95
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics [1]		13800	µg/kg	**8260 J**
Diesel PAH Analytes	Naphthalene	277	µg/kg	U
	2-Methylnaphthalene	277	µg/kg	U
	Phenanthrene	277	µg/kg	U
	Acenaphthene	277	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	277	µg/kg	U
	Fluorene	277	µg/kg	U
	Anthracene	277	µg/kg	U
	Fluoranthene	277	µg/kg	U
	Pyrene	277	µg/kg	U
	Benzo[a]anthracene	277	µg/kg	U
	Chrysene	277	µg/kg	U
	Benzo[b]fluoranthene	277	µg/kg	U
	Benzo[k]fluoranthene	277	µg/kg	U
	Benzo[a]pyrene	277	µg/kg	U
	Indeno[1,2,3-cd]pyrene	277	µg/kg	U
	Dibenzo[a,h]anthracene	277	µg/kg	U
	Benzo[g,h,i]perylene	277	µg/kg	U
C9-C18 Aliphatic Hydrocarbons [1]		13800	µg/kg	U
C19-C36 Aliphatic Hydrocarbons [1]		13800	µg/kg	**14300**
C11-C22 Aromatic Hydrocarbons [1,2]		13800	µg/kg	**8260 J**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				76
Aromatic Surrogate % Recovery (O-Terphenyl)				85
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				88
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				82
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

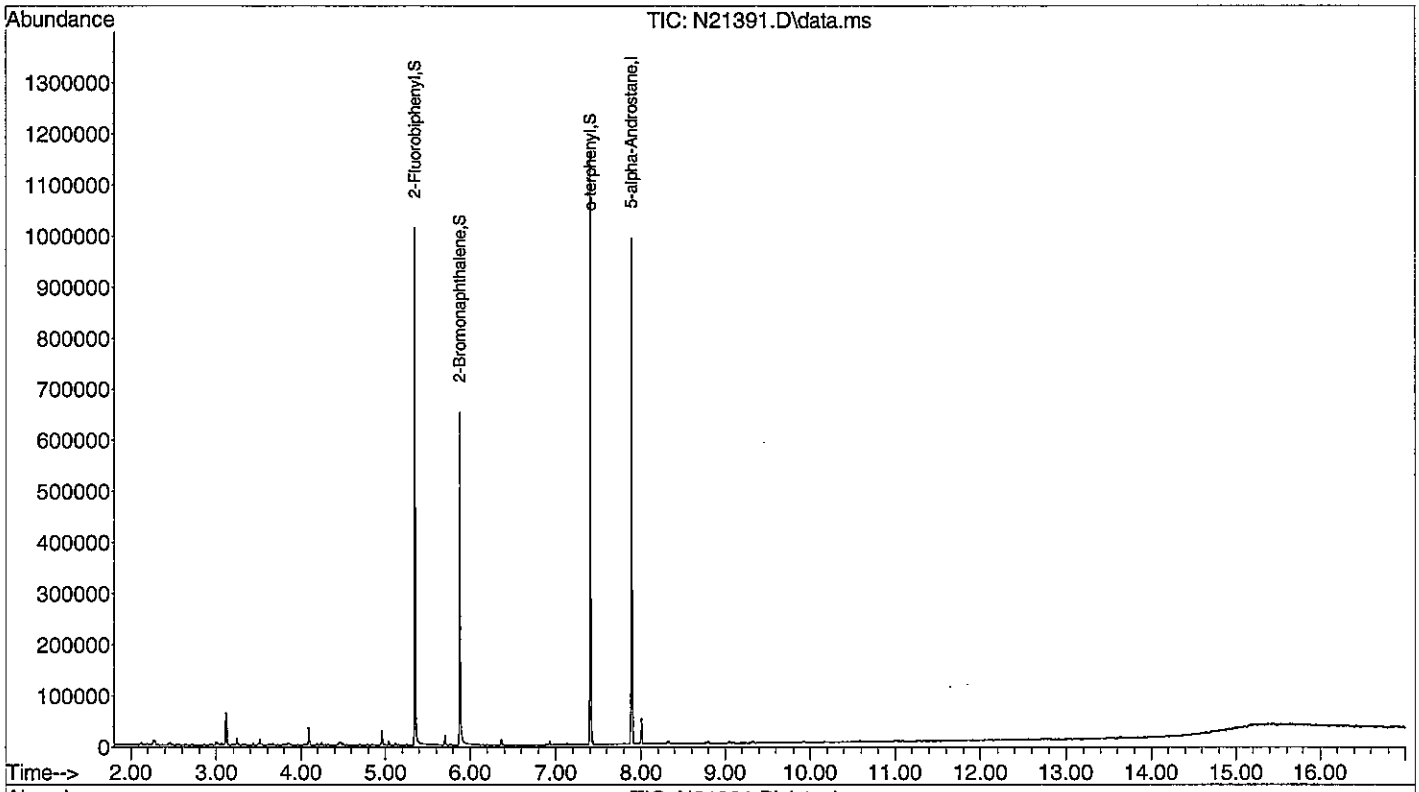
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

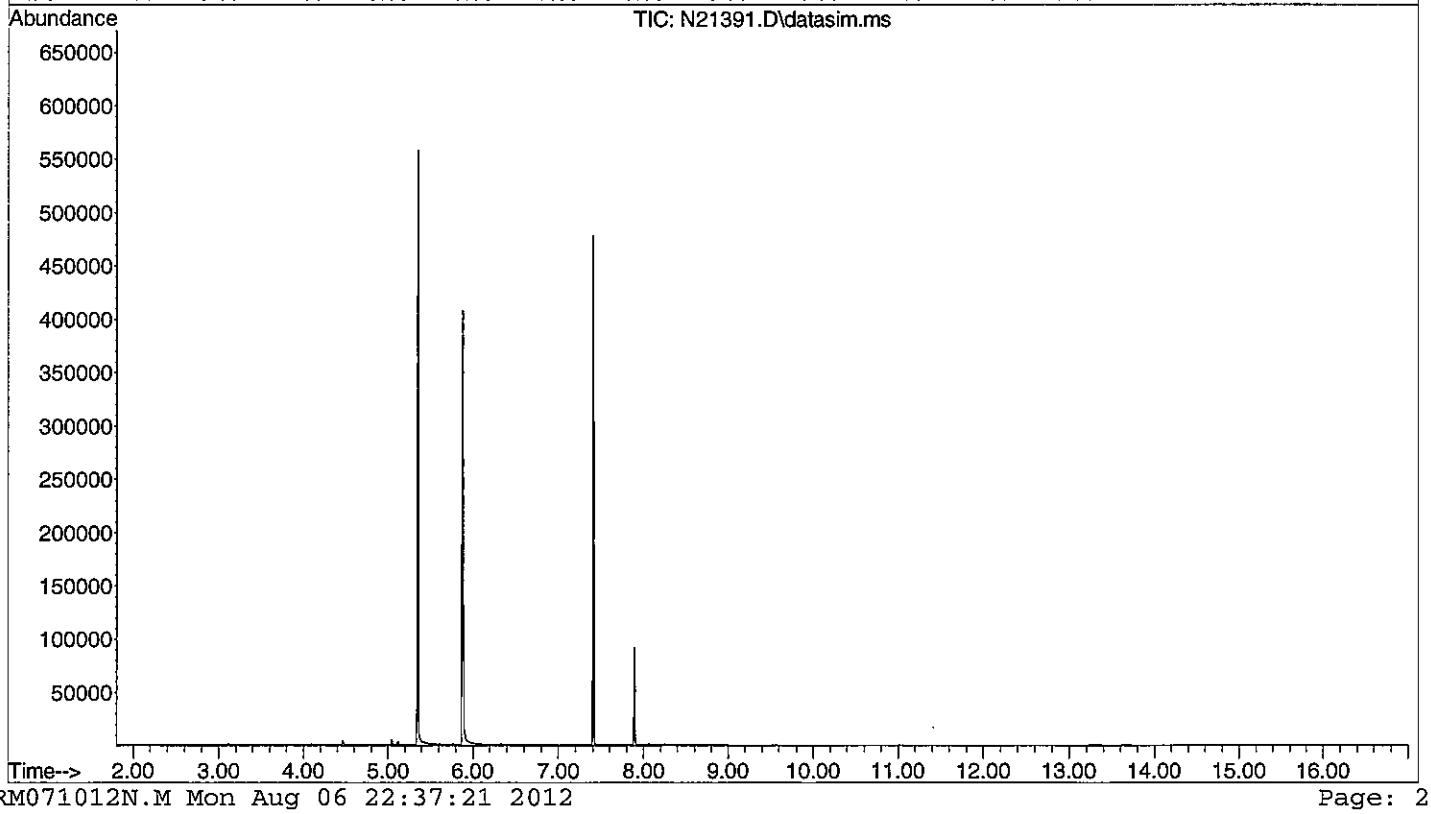
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21391.D
Acq On : 6 Aug 2012 6:09 pm
Operator : AR
Sample : 73485-1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 06 22:37:21 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

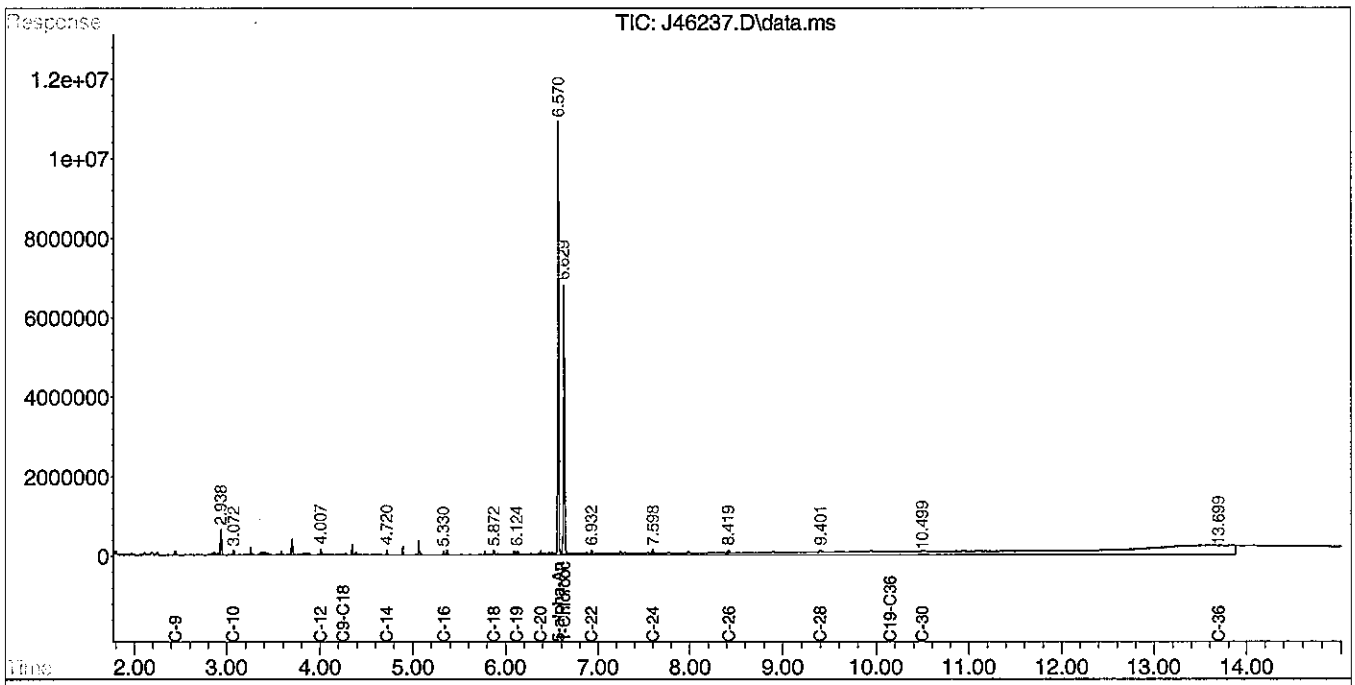


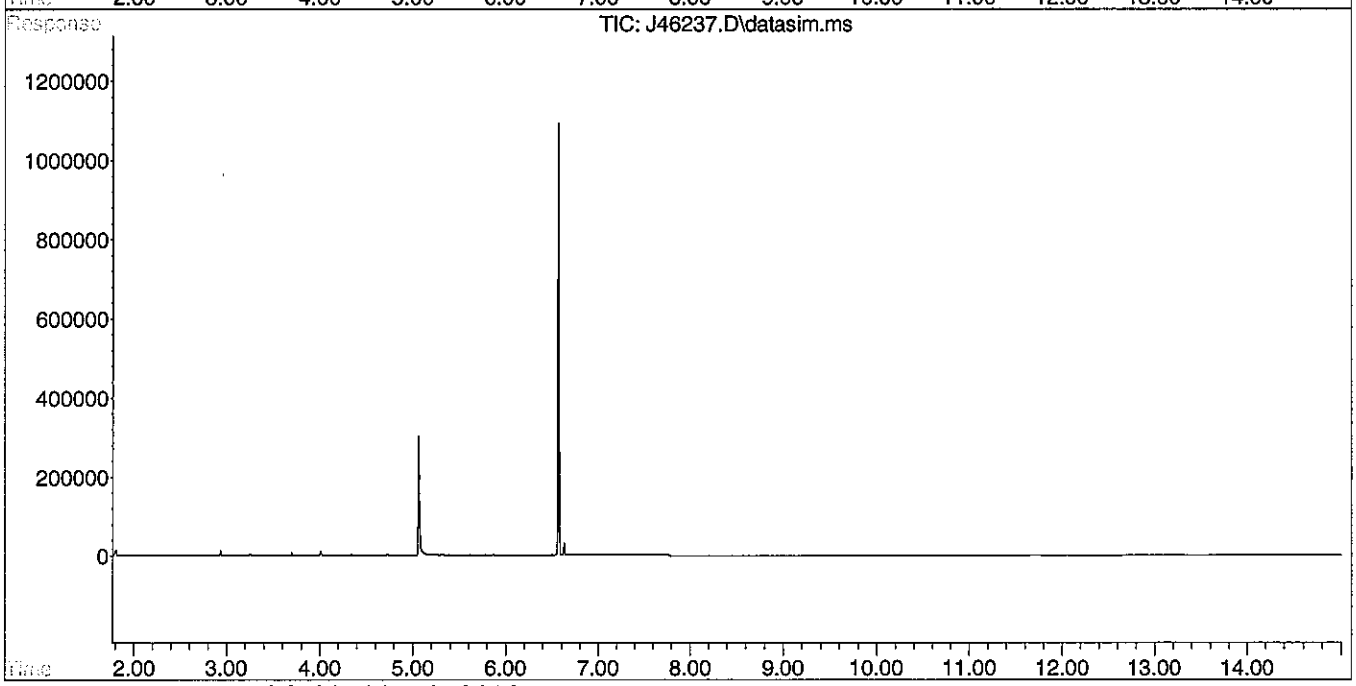


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46237.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 5:26 pm
Operator : AR
Sample : 73485-1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:05:33 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
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CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B102-S5

SAMPLE DATA

Lab Sample ID: 73485-2
Matrix: Solid
Percent Solid: 76
Dilution Factor: 1.3
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		17500	µg/kg	**194000**
Diesel PAH Analytes	Naphthalene	351	µg/kg	**891**
	2-Methylnaphthalene	351	µg/kg	**484**
	Phenanthrene	351	µg/kg	**14600**
	Acenaphthene	351	µg/kg	**990**
Other Target PAH Analytes	Acenaphthylene	351	µg/kg	**707**
	Fluorene	351	µg/kg	**1610**
	Anthracene	351	µg/kg	**1990**
	Fluoranthene	351	µg/kg	**14200**
	Pyrene	351	µg/kg	**11900**
	Benzo[a]anthracene	351	µg/kg	**5350**
	Chrysene	351	µg/kg	**6070**
	Benzo[b]fluoranthene	351	µg/kg	**8040**
	Benzo[k]fluoranthene	351	µg/kg	**2340**
	Benzo[a]pyrene	351	µg/kg	**5910**
	Indeno[1,2,3-cd]pyrene	351	µg/kg	**5060**
	Dibenzo[a,h]anthracene	351	µg/kg	**930**
	Benzo[g,h,i]perylene	351	µg/kg	**4350**
C9-C18 Aliphatic Hydrocarbons[1]		17500	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		17500	µg/kg	**40600**
C11-C22 Aromatic Hydrocarbons[1,2]		17500	µg/kg	**109000**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				77
Aromatic Surrogate % Recovery (O-Terphenyl)				66
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				69
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				69
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

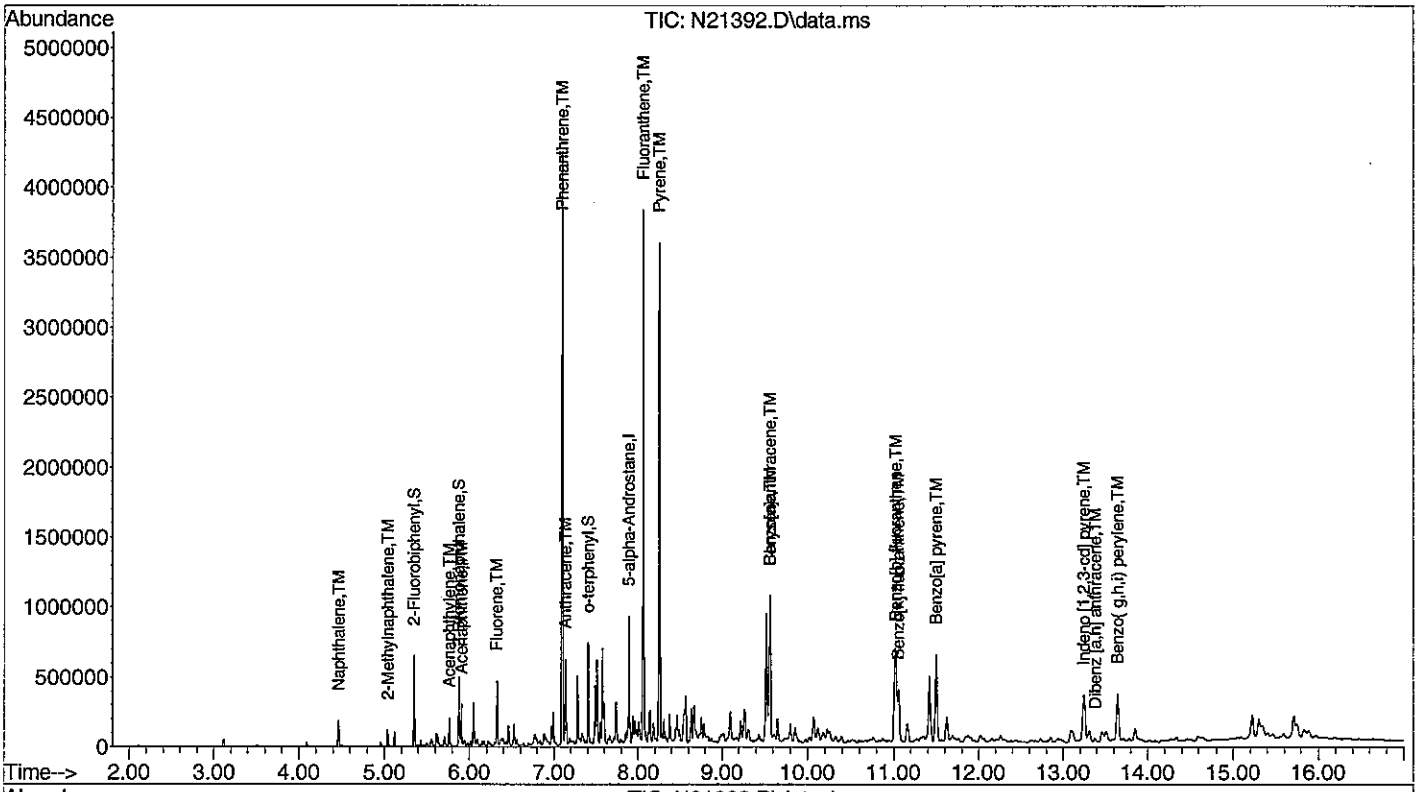
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

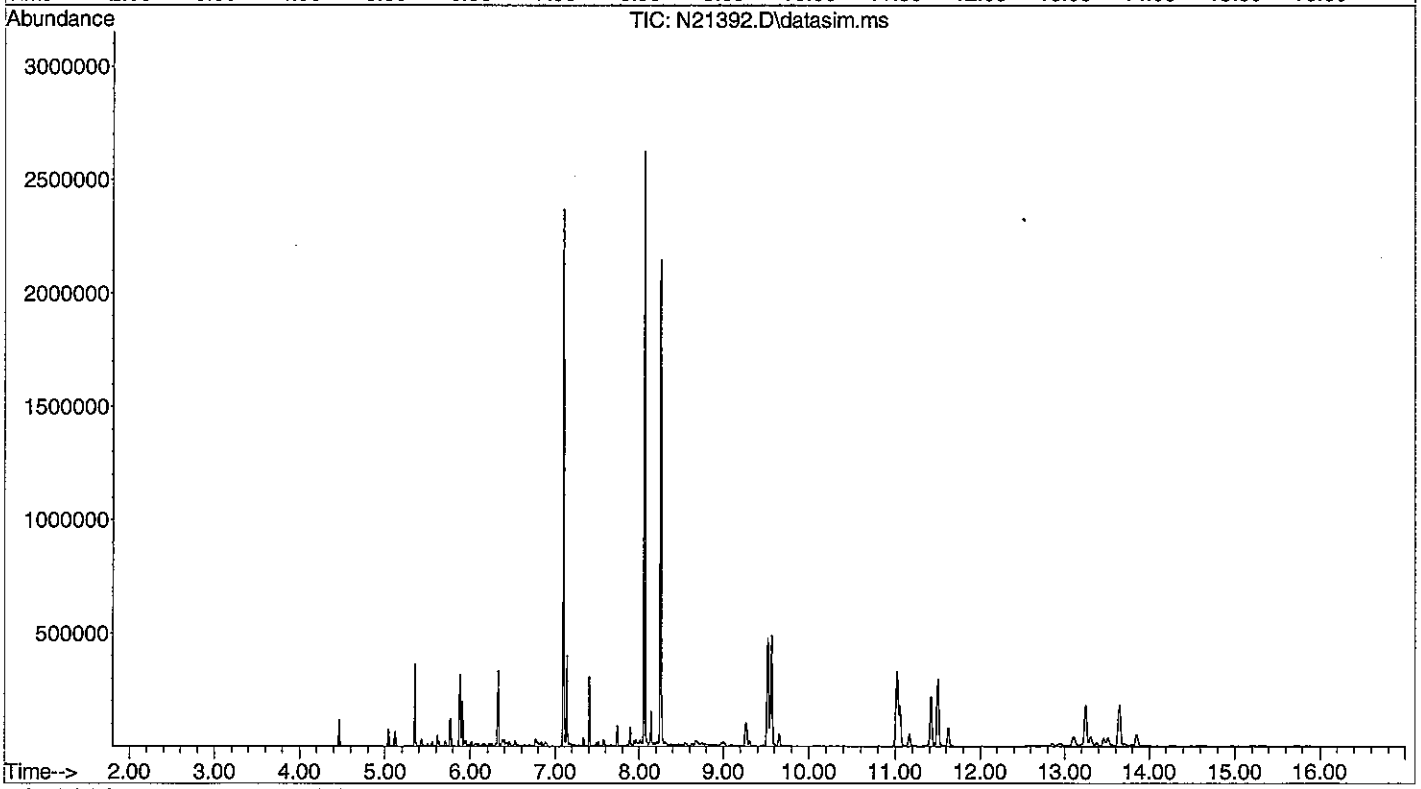
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21392.D
Acq On : 6 Aug 2012 6:30 pm
Operator : AR
Sample : 73485-2
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 06 22:37:23 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

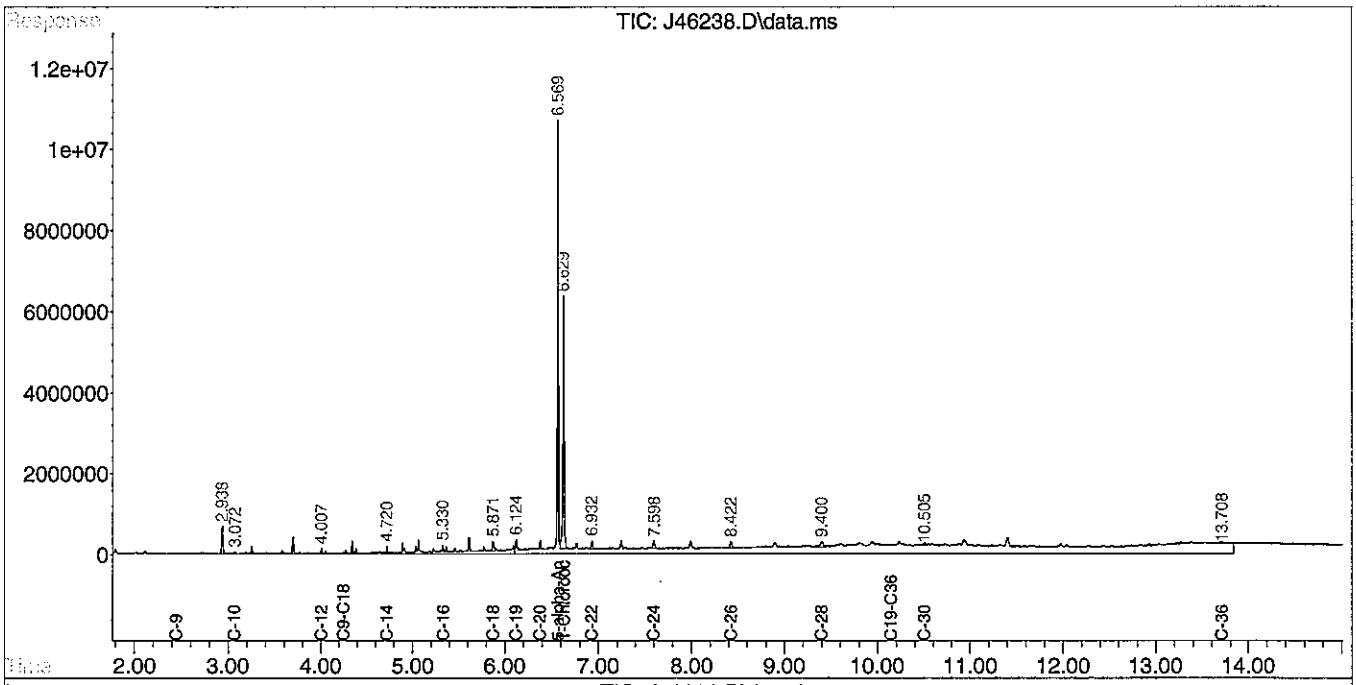


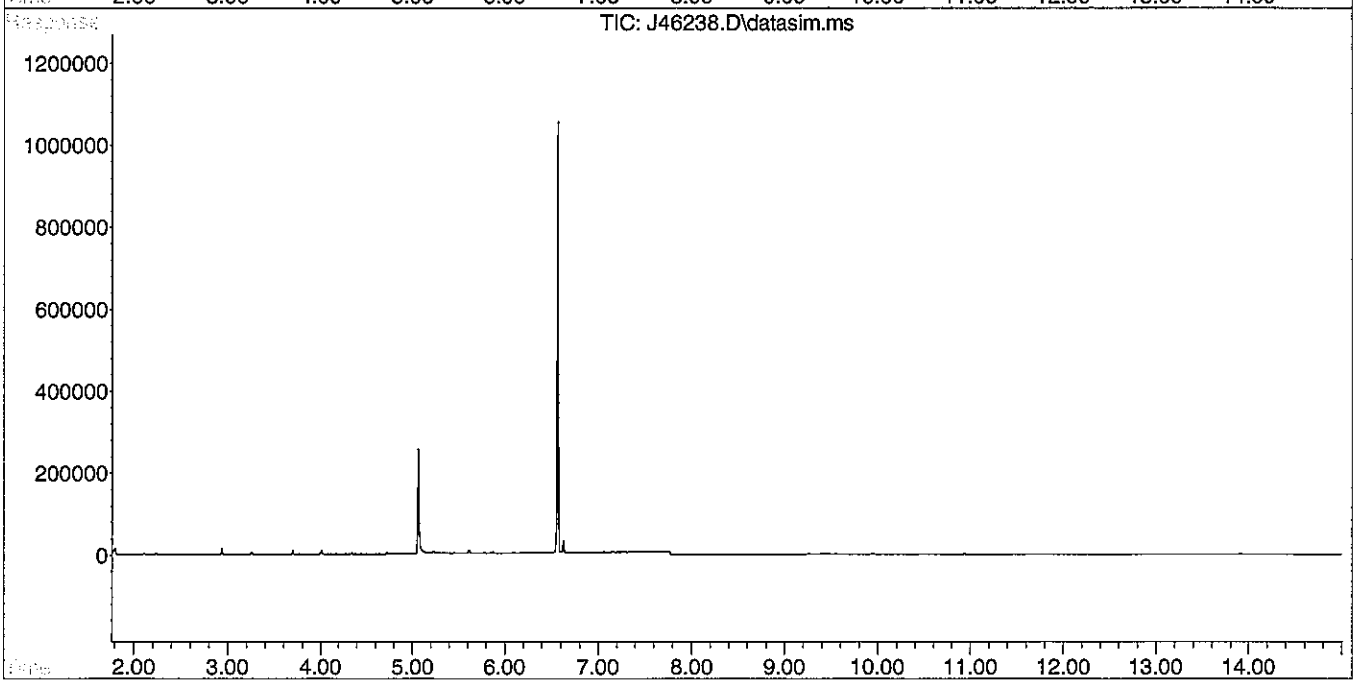


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46238.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 5:47 pm
Operator : AR
Sample : 73485-2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:06:32 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
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400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B103-S1

SAMPLE DATA

Lab Sample ID: 73485-3
Matrix: Solid
Percent Solid: 97
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		13800	µg/kg	**133000**
Diesel PAH Analytes	Naphthalene	275	µg/kg	**324**
	2-Methylnaphthalene	275	µg/kg	**365**
	Phenanthrene	275	µg/kg	**2360**
	Acenaphthene	275	µg/kg	**150 J**
Other Target PAH Analytes	Acenaphthylene	275	µg/kg	**257 J**
	Fluorene	275	µg/kg	**164 J**
	Anthracene	275	µg/kg	**421**
	Fluoranthene	275	µg/kg	**4010**
	Pyrene	275	µg/kg	**3410**
	Benzo[a]anthracene	275	µg/kg	**2500**
	Chrysene	275	µg/kg	**2720**
	Benzo[b]fluoranthene	275	µg/kg	**3930**
	Benzo[k]fluoranthene	275	µg/kg	**1300**
	Benzo[a]pyrene	275	µg/kg	**2630**
	Indeno[1,2,3-cd]pyrene	275	µg/kg	**2270**
	Dibenzo[a,h]anthracene	275	µg/kg	**535**
	Benzo[g,h,i]perylene	275	µg/kg	**1960**
C9-C18 Aliphatic Hydrocarbons[1]		13800	µg/kg	**20300**
C19-C36 Aliphatic Hydrocarbons[1]		13800	µg/kg	**76400**
C11-C22 Aromatic Hydrocarbons[1,2]		13800	µg/kg	**103000**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				80
Aromatic Surrogate % Recovery (O-Terphenyl)				80
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				85
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				83
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

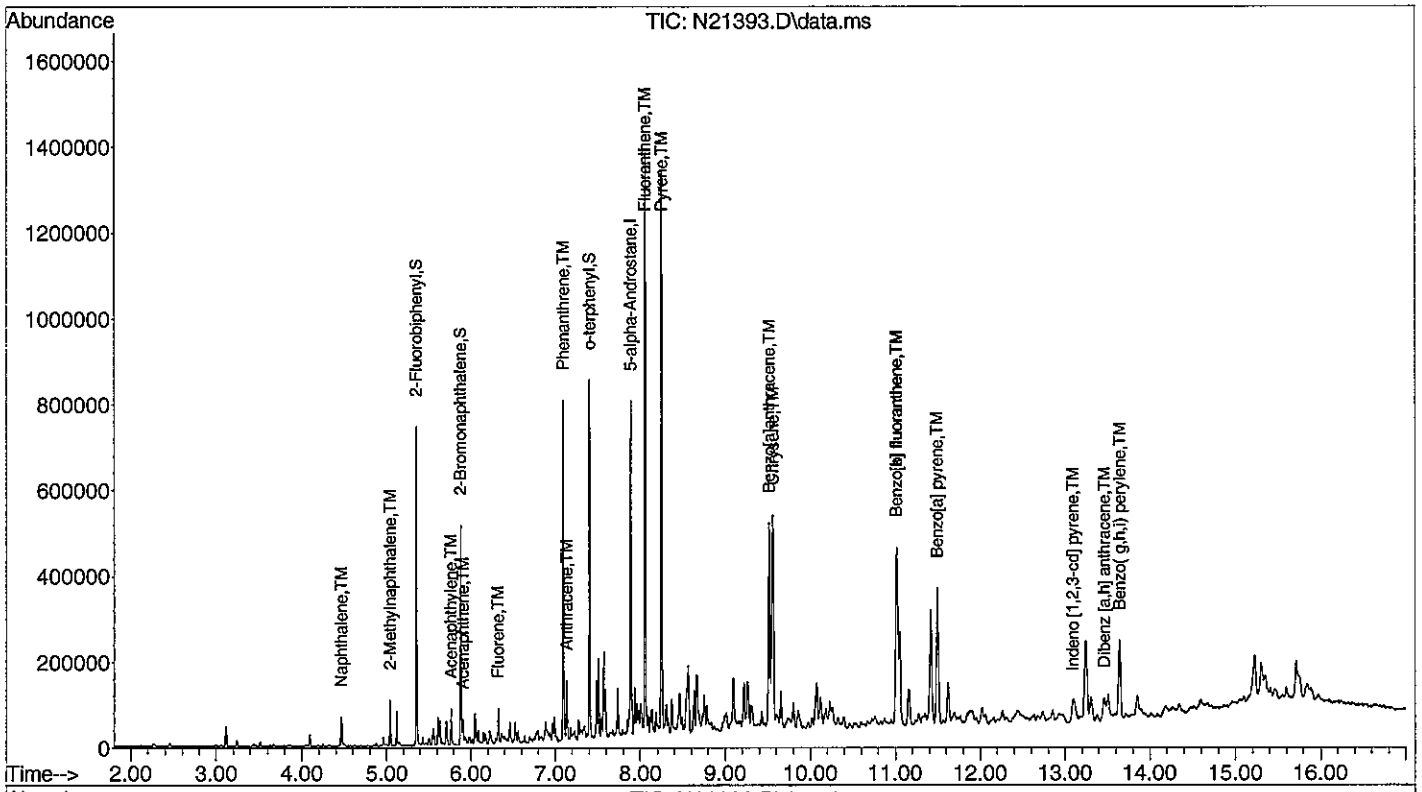
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

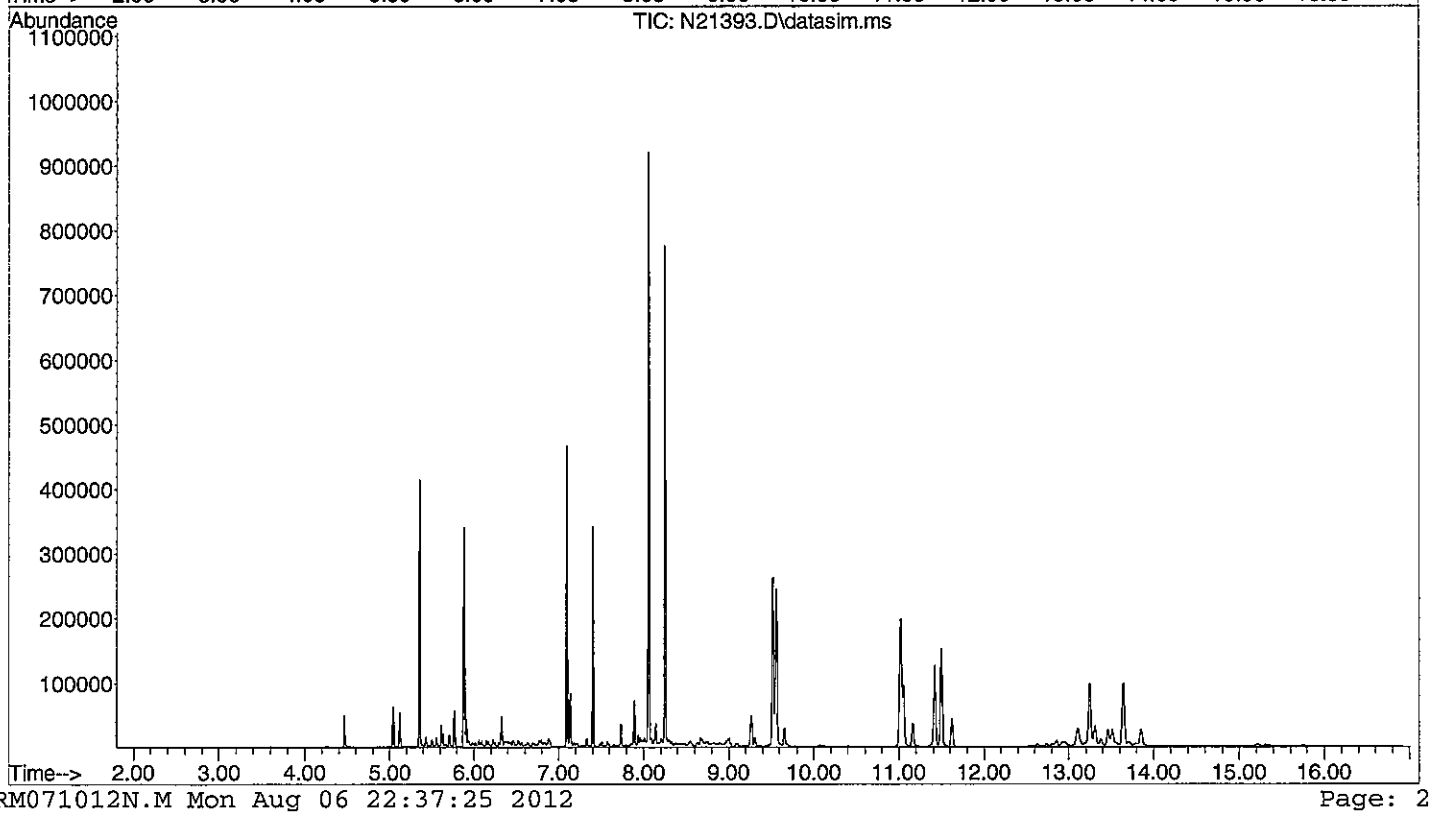
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21393.D
Acq On : 6 Aug 2012 6:50 pm
Operator : AR
Sample : 73485-3
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 06 22:37:25 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration





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August 8, 2012

Mr. Peter Sherr
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400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: B104-S3

SAMPLE DATA

Lab Sample ID: 73485-4
Matrix: Solid
Percent Solid: 88
Dilution Factor: 1.1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		14300	µg/kg	**41200**
Diesel PAH Analytes	Naphthalene	285	µg/kg	U
	2-Methylnaphthalene	285	µg/kg	U
	Phenanthrene	285	µg/kg	**528**
	Acenaphthene	285	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	285	µg/kg	U
	Fluorene	285	µg/kg	U
	Anthracene	285	µg/kg	**164 J**
	Fluoranthene	285	µg/kg	**882**
	Pyrene	285	µg/kg	**775**
	Benzo[a]anthracene	285	µg/kg	**535**
	Chrysene	285	µg/kg	**649**
	Benzo[b]fluoranthene	285	µg/kg	**902**
	Benzo[k]fluoranthene	285	µg/kg	**291**
	Benzo[a]pyrene	285	µg/kg	**702**
	Indeno[1,2,3-cd]pyrene	285	µg/kg	**648**
	Dibenzo[a,h]anthracene	285	µg/kg	U
	Benzo[g,h,i]perylene	285	µg/kg	**520**
C9-C18 Aliphatic Hydrocarbons[1]		14300	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		14300	µg/kg	**35700**
C11-C22 Aromatic Hydrocarbons[1,2]		14300	µg/kg	**34600**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				73
Aromatic Surrogate % Recovery (O-Terphenyl)				75
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				92
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				87
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

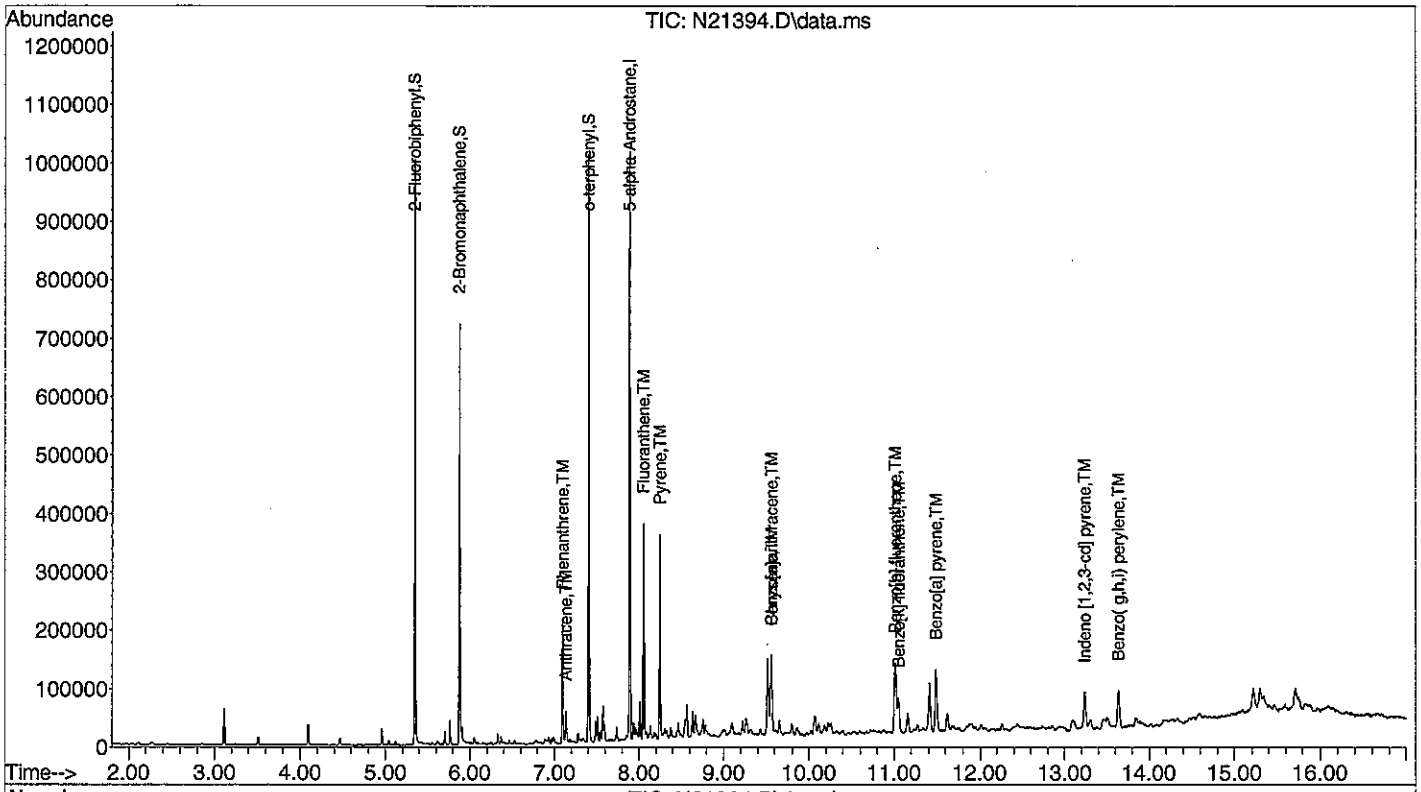
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

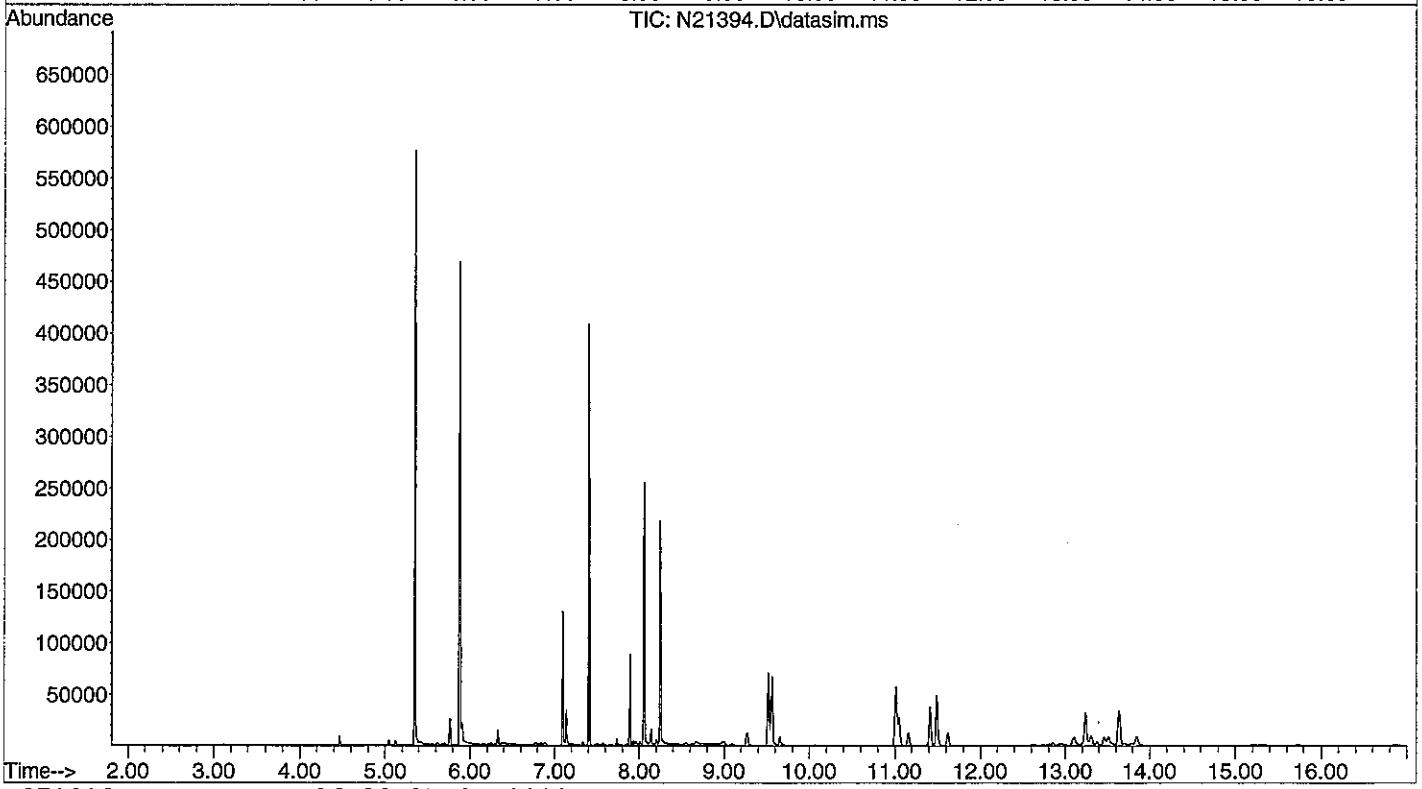
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: _____

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21394.D
Acq On : 6 Aug 2012 7:11 pm
Operator : AR
Sample : 73485-4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 22:37:27 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

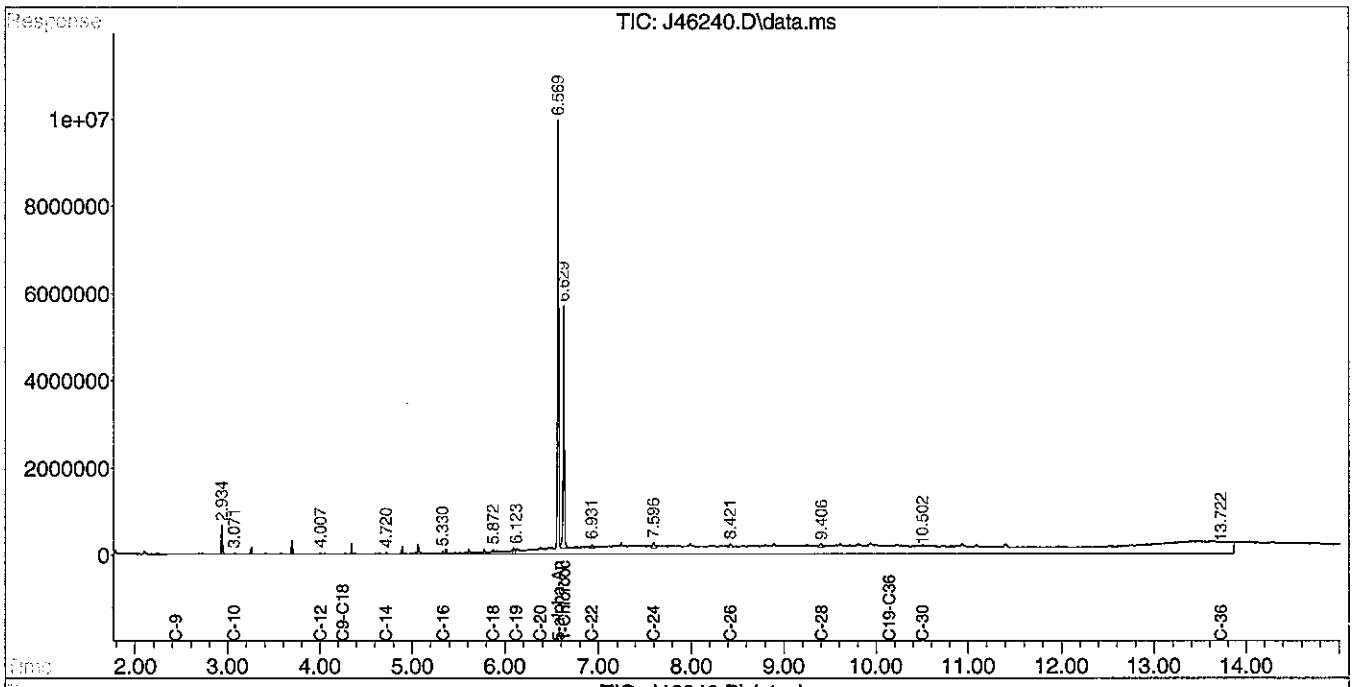


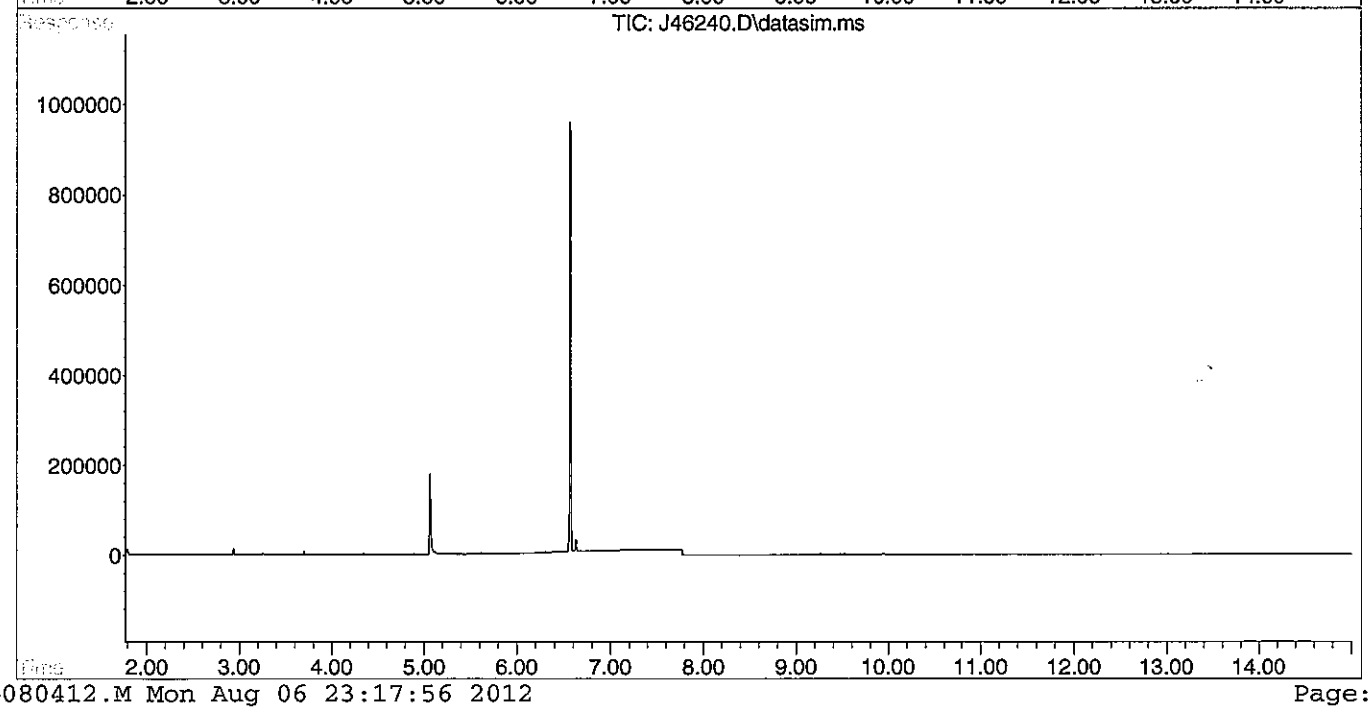


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46240.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 6:28 pm
Operator : AR
Sample : 73485-4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:07:53 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
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Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS101

SAMPLE DATA

Lab Sample ID: 73485-5
Matrix: Solid
Percent Solid: 94
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		13400	µg/kg	**15300**
Diesel PAH Analytes	Naphthalene	268	µg/kg	U
	2-Methylnaphthalene	268	µg/kg	U
	Phenanthrene	268	µg/kg	**302**
	Acenaphthene	268	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	268	µg/kg	U
	Fluorene	268	µg/kg	U
	Anthracene	268	µg/kg	U
	Fluoranthene	268	µg/kg	**356**
	Pyrene	268	µg/kg	**310**
	Benzo[a]anthracene	268	µg/kg	**181 J**
	Chrysene	268	µg/kg	**177 J**
	Benzo[b]fluoranthene	268	µg/kg	**230 J**
	Benzo[k]fluoranthene	268	µg/kg	U
	Benzo[a]pyrene	268	µg/kg	**181 J**
	Indeno[1,2,3-cd]pyrene	268	µg/kg	**139 J**
	Dibenzo[a,h]anthracene	268	µg/kg	U
	Benzo[g,h,i]perylene	268	µg/kg	U
C9-C18 Aliphatic Hydrocarbons[1]		13400	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		13400	µg/kg	**49400**
C11-C22 Aromatic Hydrocarbons[1,2]		13400	µg/kg	**13400**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				78
Aromatic Surrogate % Recovery (O-Terphenyl)				83
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				85
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				80
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

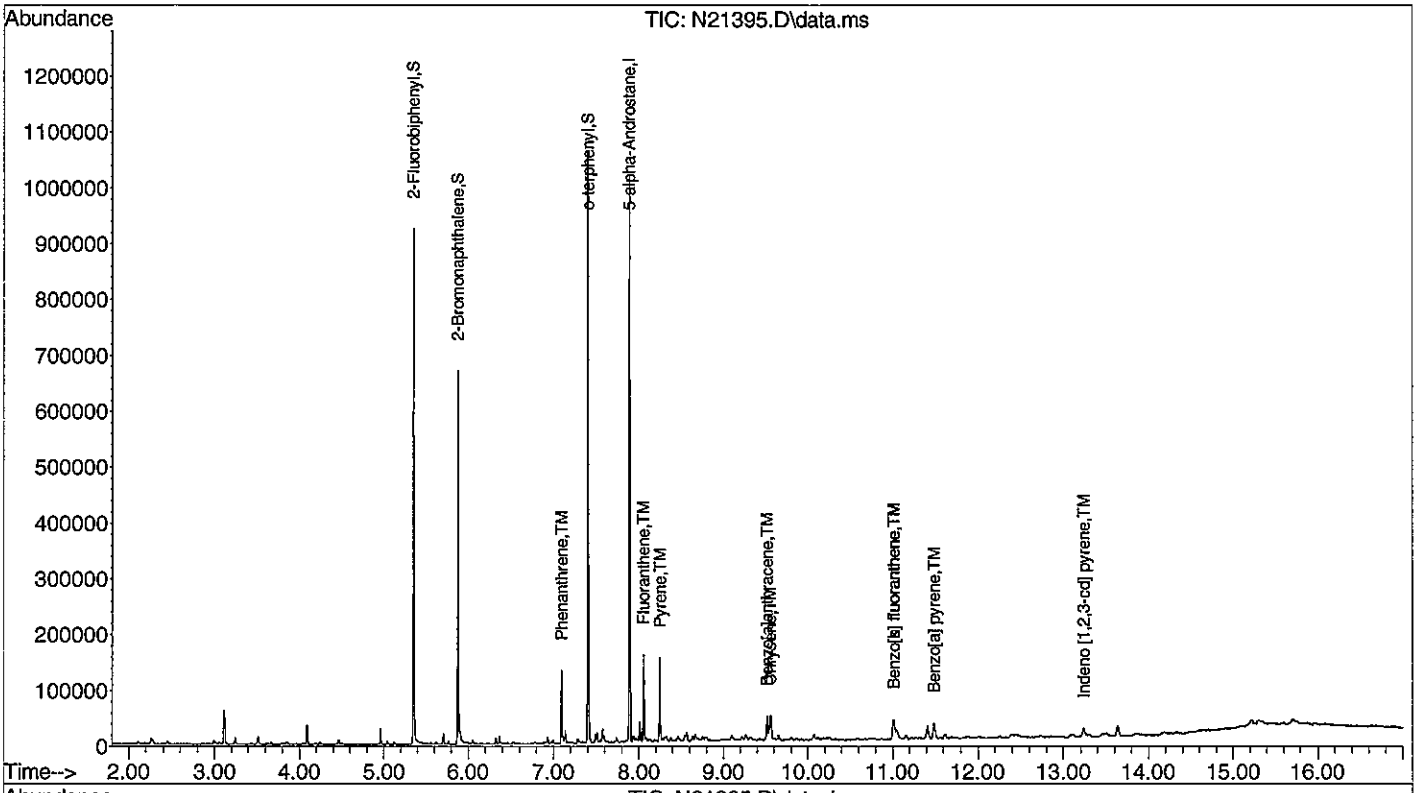
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

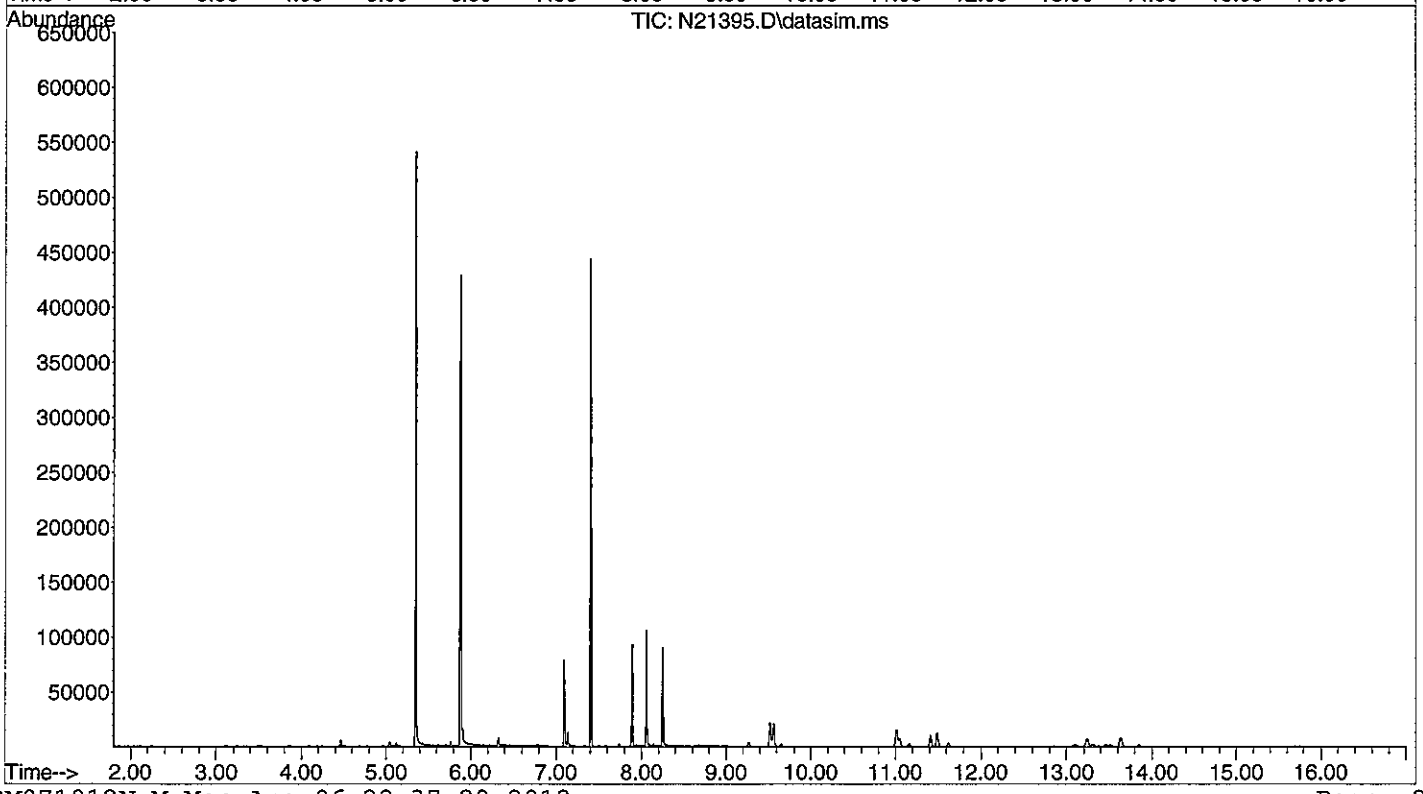
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21395.D
Acq On : 6 Aug 2012 7:31 pm
Operator : AR
Sample : 73485-5
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 22:37:29 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

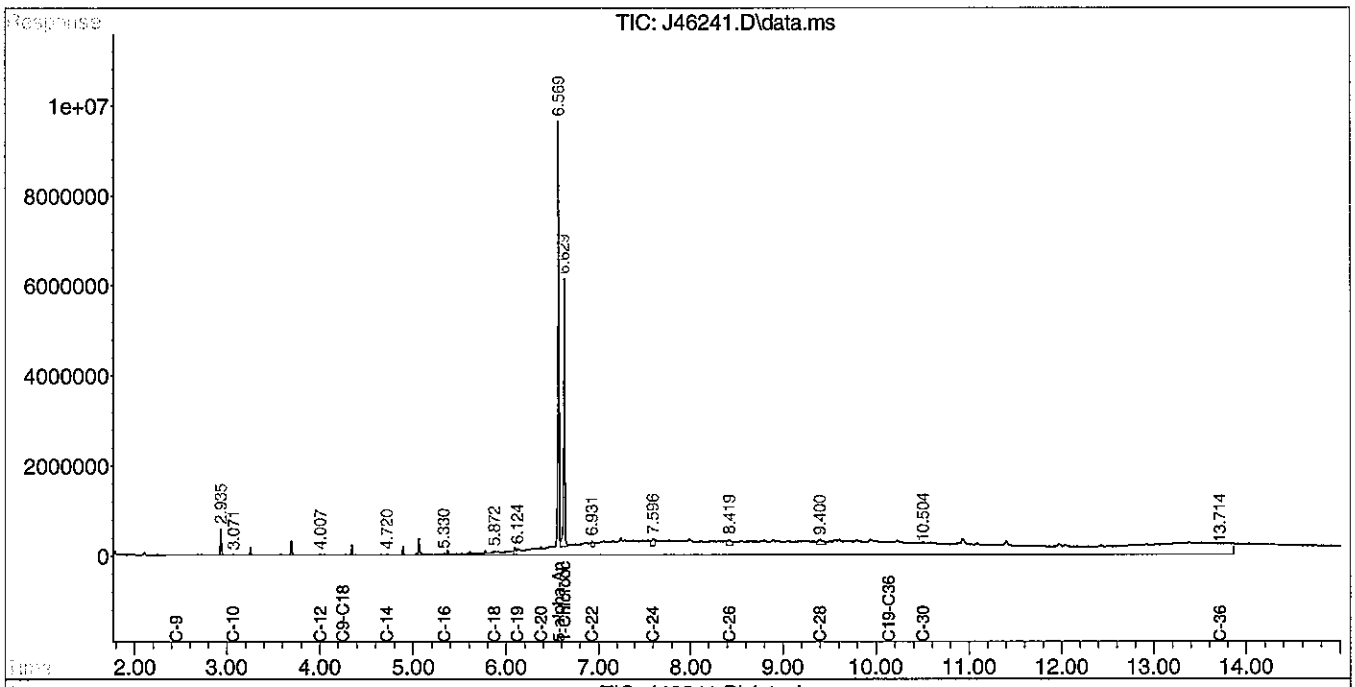


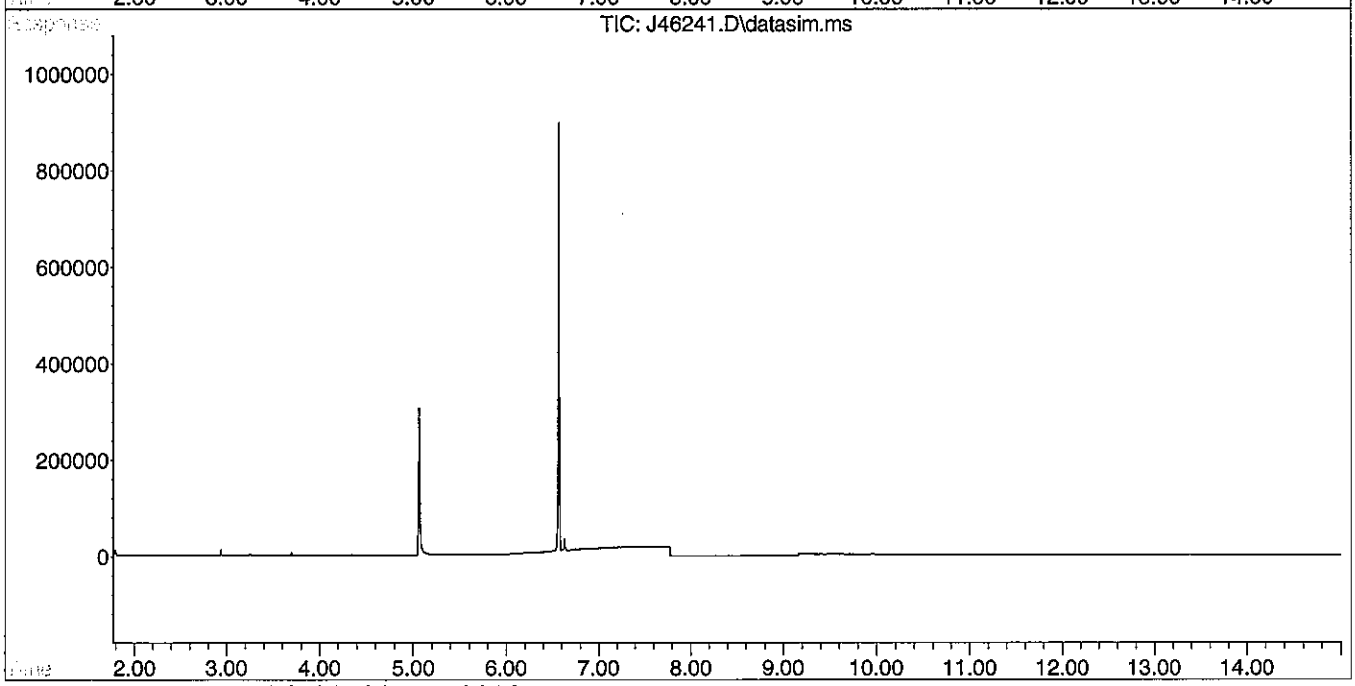


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46241.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 6:48 pm
Operator : AR
Sample : 73485-5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:22:44 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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800-929-9906

August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS102

SAMPLE DATA

Lab Sample ID: 73485-6
Matrix: Solid
Percent Solid: 91
Dilution Factor: 1.1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		14500	µg/kg	**92200**
Diesel PAH Analytes	Naphthalene	291	µg/kg	U
	2-Methylnaphthalene	291	µg/kg	U
	Phenanthrene	291	µg/kg	**831**
	Acenaphthene	291	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	291	µg/kg	U
	Fluorene	291	µg/kg	U
	Anthracene	291	µg/kg	**179 J**
	Fluoranthene	291	µg/kg	**1280**
	Pyrene	291	µg/kg	**1150**
	Benzo[a]anthracene	291	µg/kg	**788**
	Chrysene	291	µg/kg	**869**
	Benzo[b]fluoranthene	291	µg/kg	**1260**
	Benzo[k]fluoranthene	291	µg/kg	**385**
	Benzo[a]pyrene	291	µg/kg	**912**
	Indeno[1,2,3-cd]pyrene	291	µg/kg	**760**
	Dibenzo[a,h]anthracene	291	µg/kg	U
	Benzo[g,h,i]perylene	291	µg/kg	**704**
C9-C18 Aliphatic Hydrocarbons[1]		58100	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		58100	µg/kg	**194000**
C11-C22 Aromatic Hydrocarbons[1,2]		14500	µg/kg	**83000**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				85
Aromatic Surrogate % Recovery (O-Terphenyl)				77
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				76
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				67
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

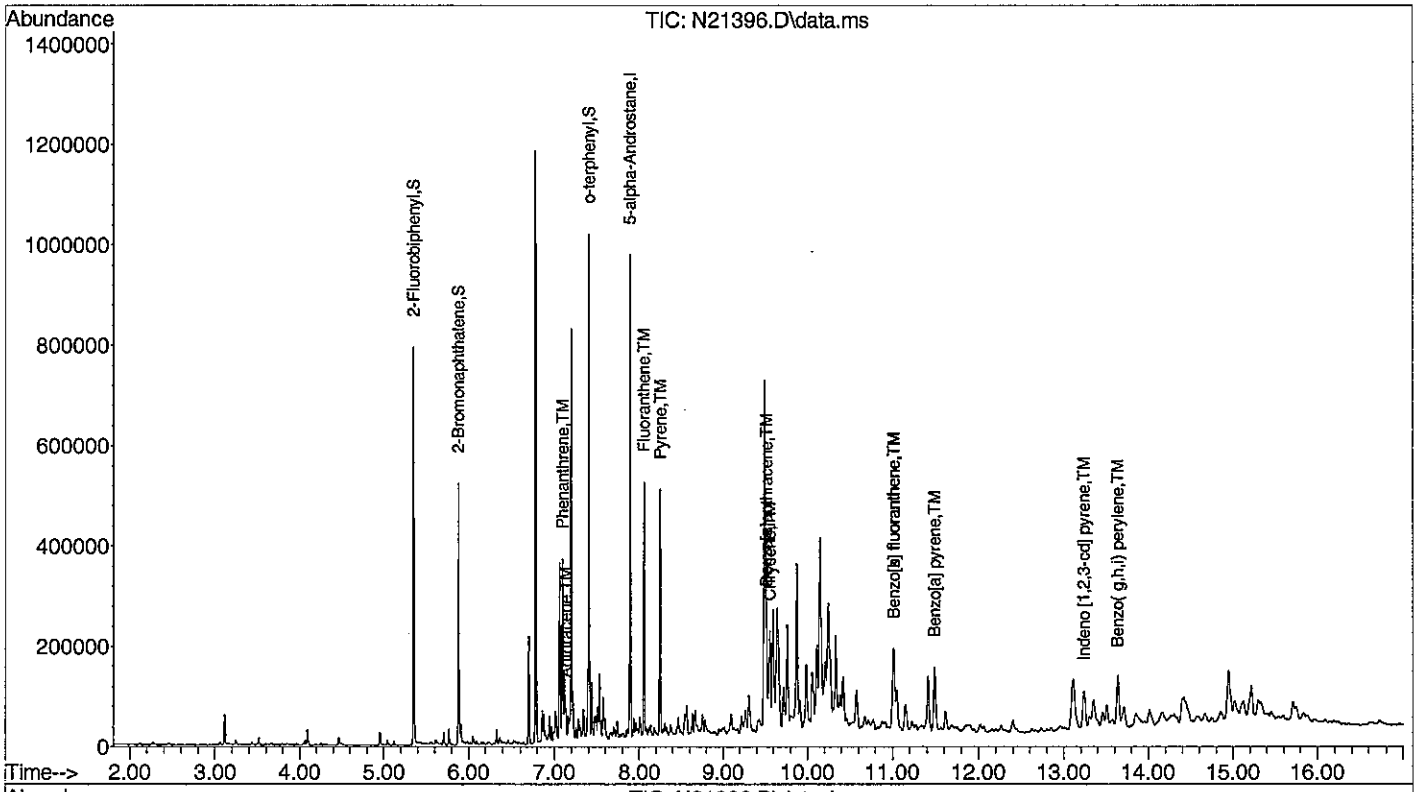
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

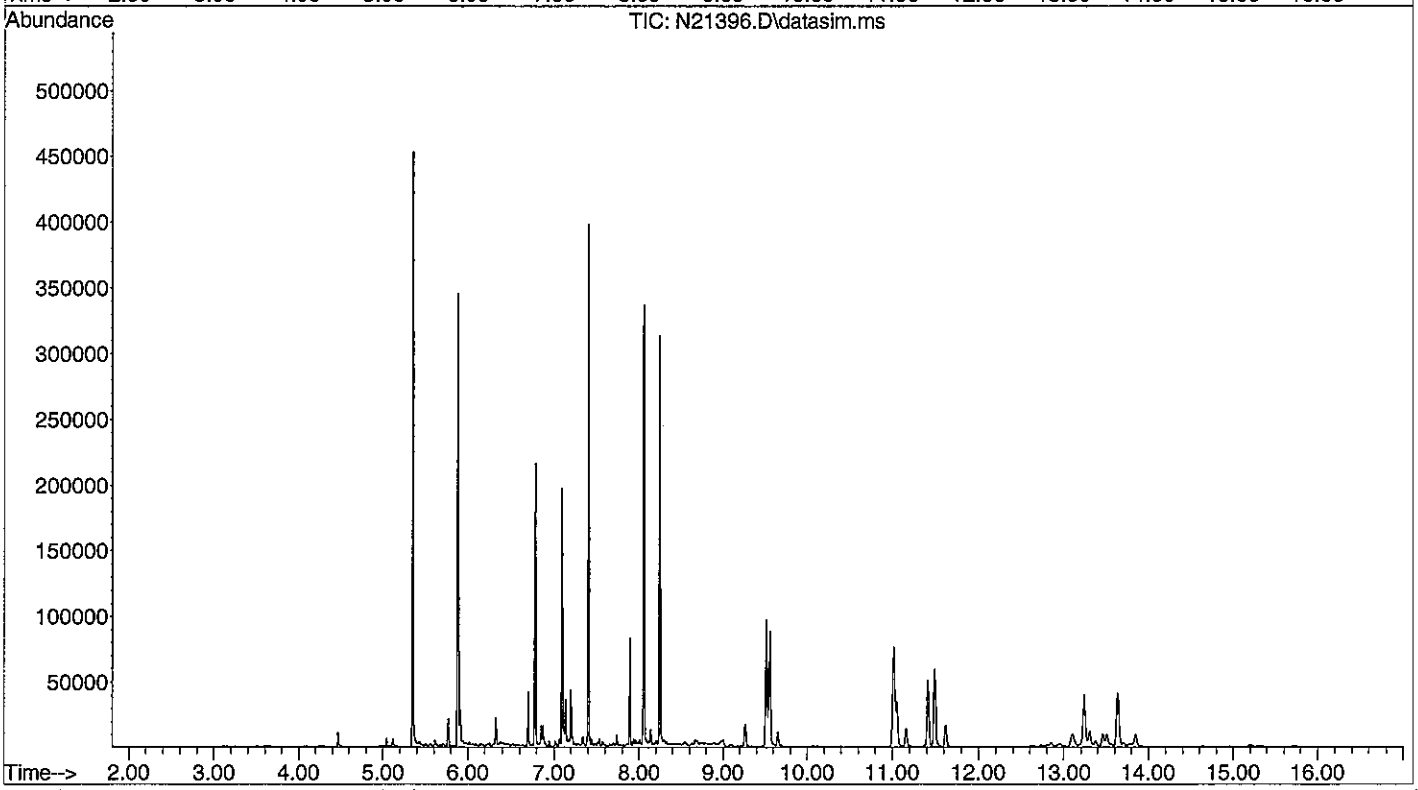
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21396.D
Acq On : 6 Aug 2012 7:52 pm
Operator : AR
Sample : 73485-6
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 22:37:31 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

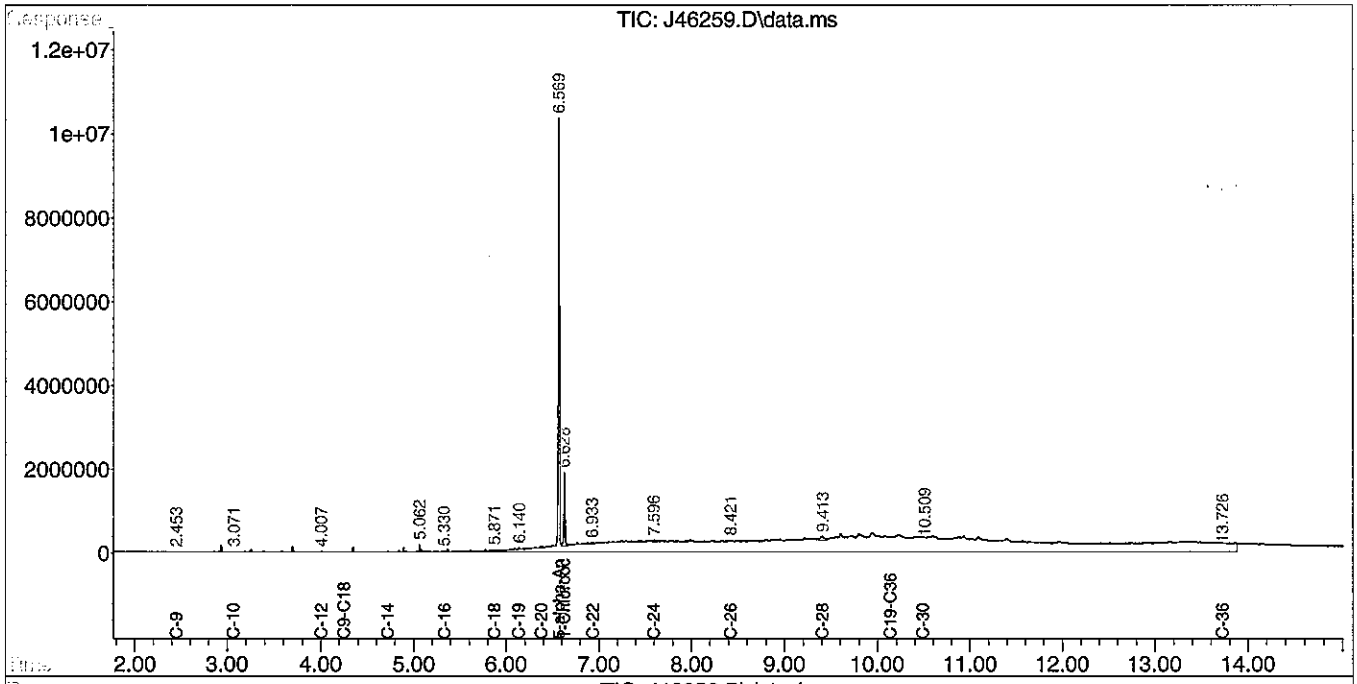


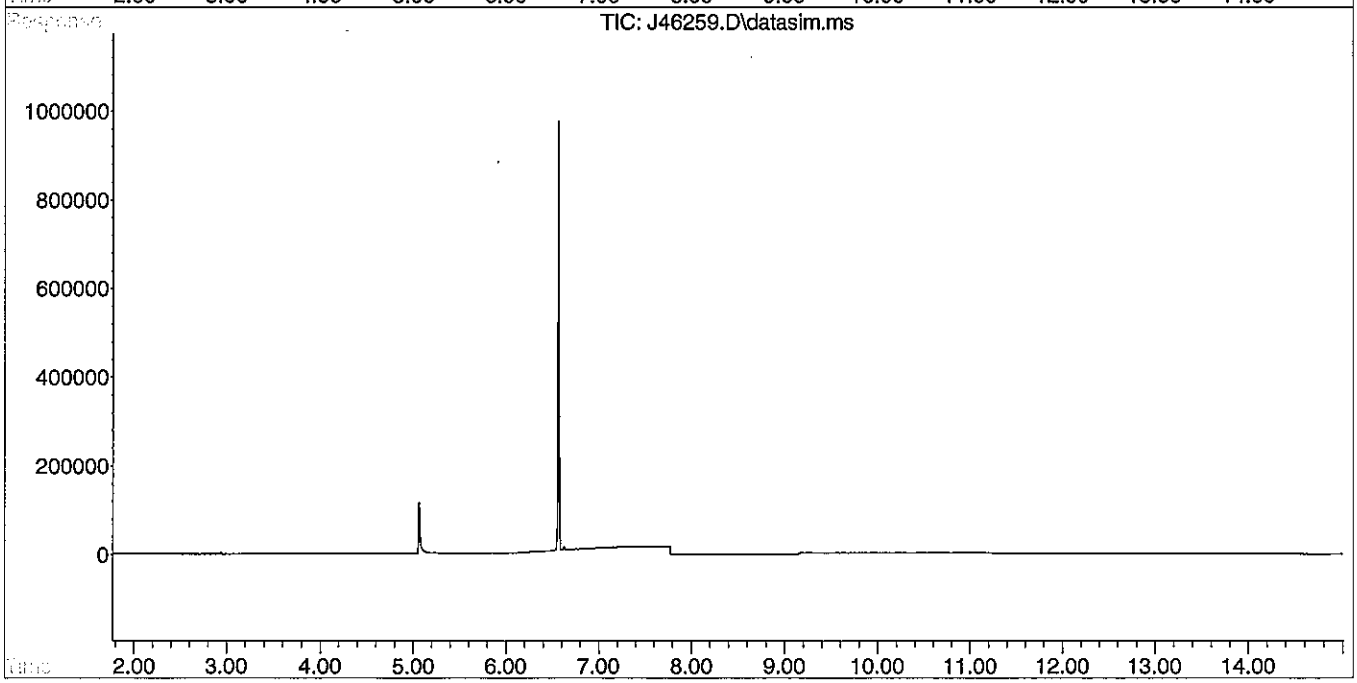


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46259.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 4:44 am
Operator : AR
Sample : 73485-6,,1:4
Misc : SOIL,ALI
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 11:42:35 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS103

SAMPLE DATA

Lab Sample ID: 73485-7
Matrix: Solid
Percent Solid: 95
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		13400	µg/kg	**27700**
Diesel PAH Analytes	Naphthalene	268	µg/kg	U
	2-Methylnaphthalene	268	µg/kg	U
	Phenanthrene	268	µg/kg	**516**
	Acenaphthene	268	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	268	µg/kg	U
	Fluorene	268	µg/kg	U
	Anthracene	268	µg/kg	U
	Fluoranthene	268	µg/kg	**777**
	Pyrene	268	µg/kg	**649**
	Benzo[a]anthracene	268	µg/kg	**420**
	Chrysene	268	µg/kg	**440**
	Benzo[b]fluoranthene	268	µg/kg	**618**
	Benzo[k]fluoranthene	268	µg/kg	**168 J**
	Benzo[a]pyrene	268	µg/kg	**419**
	Indeno[1,2,3-cd]pyrene	268	µg/kg	**386**
	Dibenzo[a,h]anthracene	268	µg/kg	U
	Benzo[g,h,i]perylene	268	µg/kg	**282**
C9-C18 Aliphatic Hydrocarbons[1]		13400	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		13400	µg/kg	**90600**
C11-C22 Aromatic Hydrocarbons[1,2]		13400	µg/kg	**23000**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				78
Aromatic Surrogate % Recovery (O-Terphenyl)				82
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				84
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				78
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

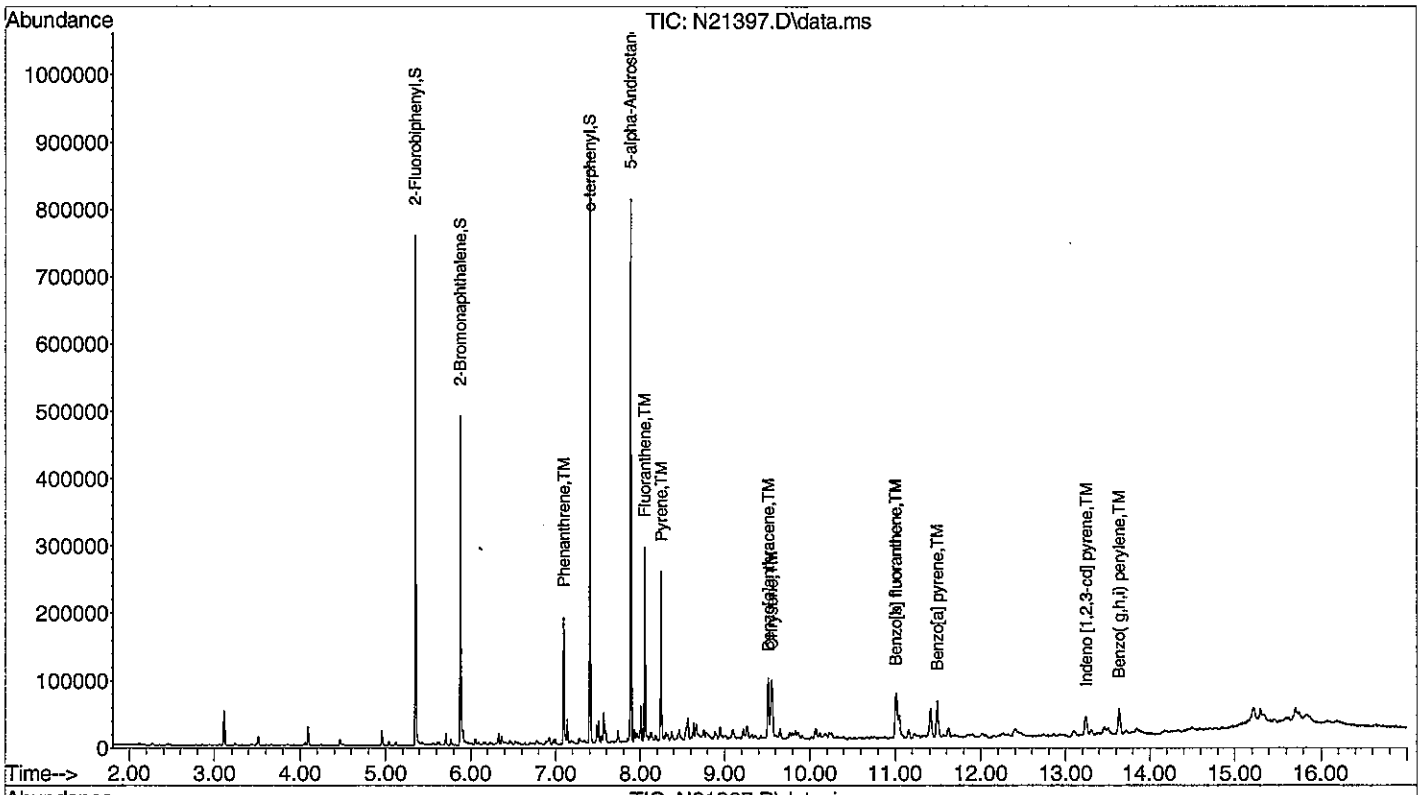
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

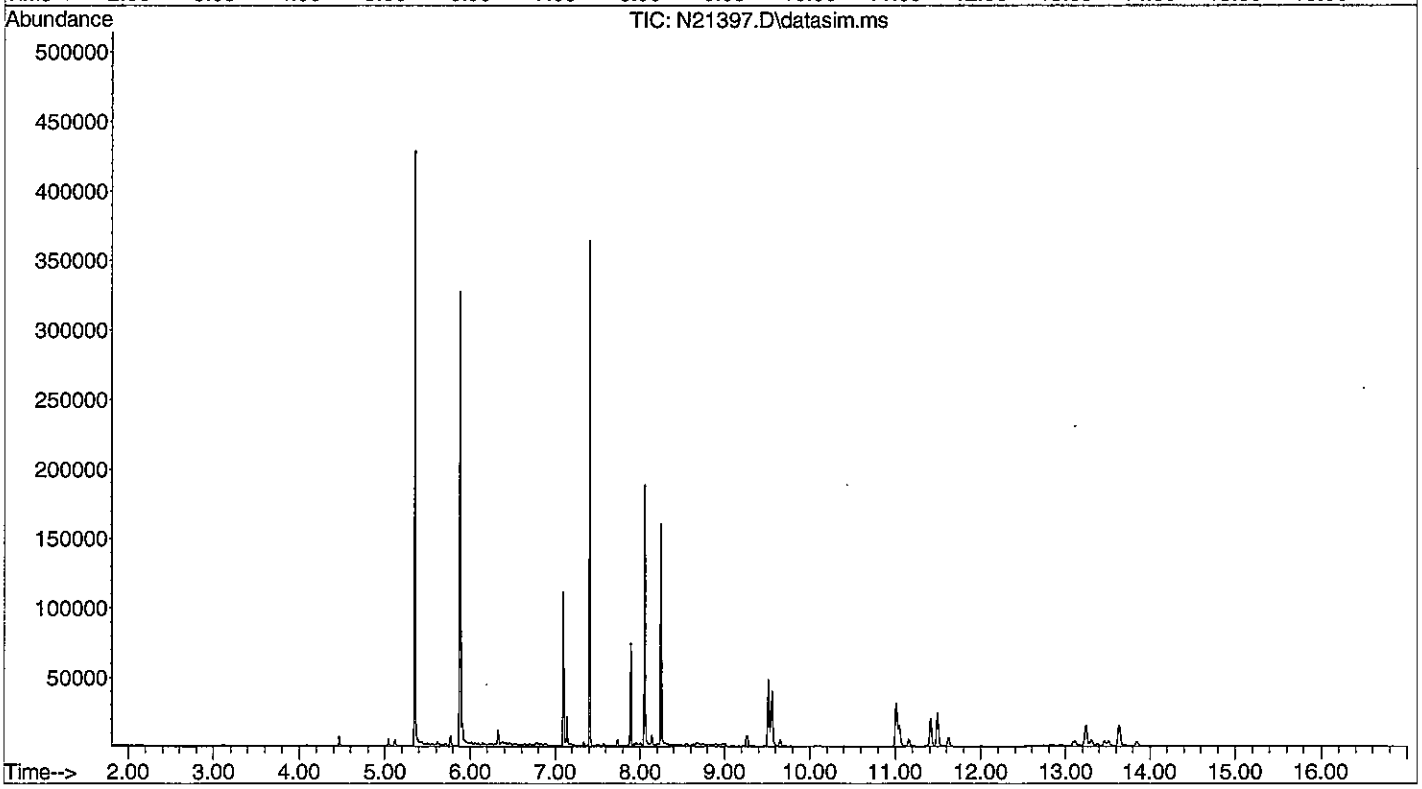
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21397.D
Acq On : 6 Aug 2012 8:12 pm
Operator : AR
Sample : 73485-7
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 22:37:33 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

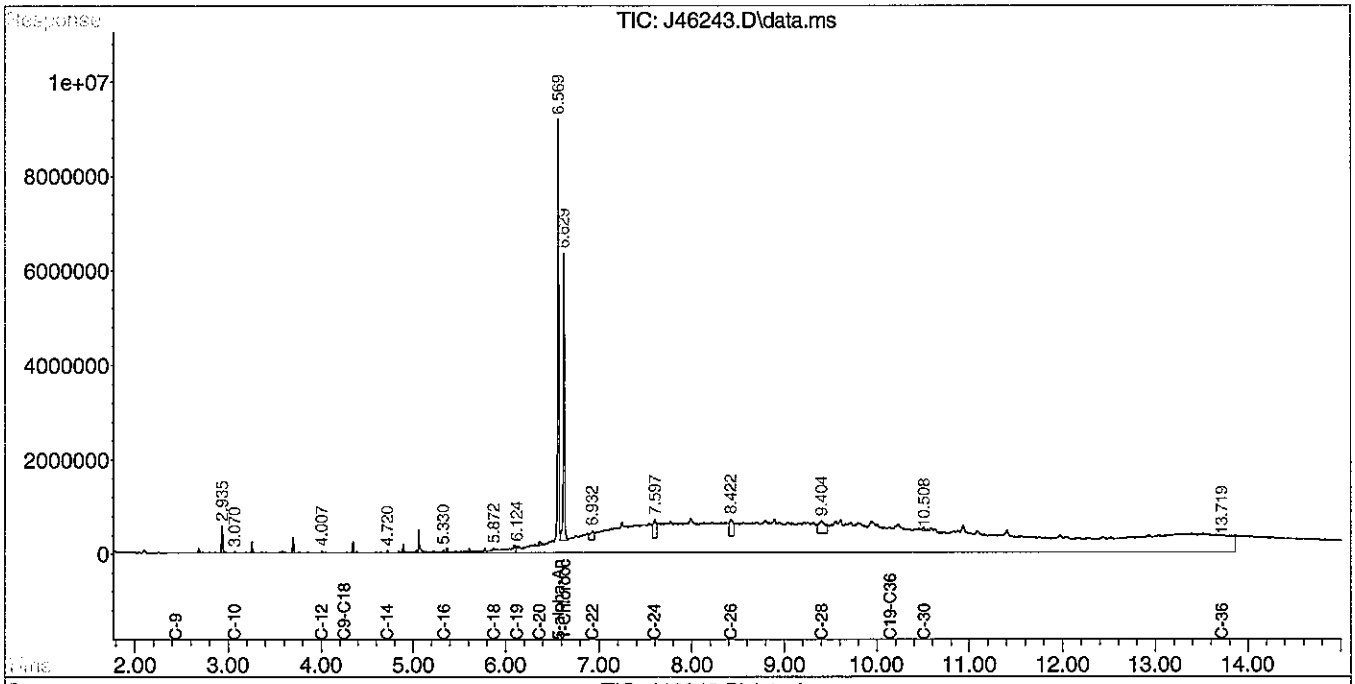


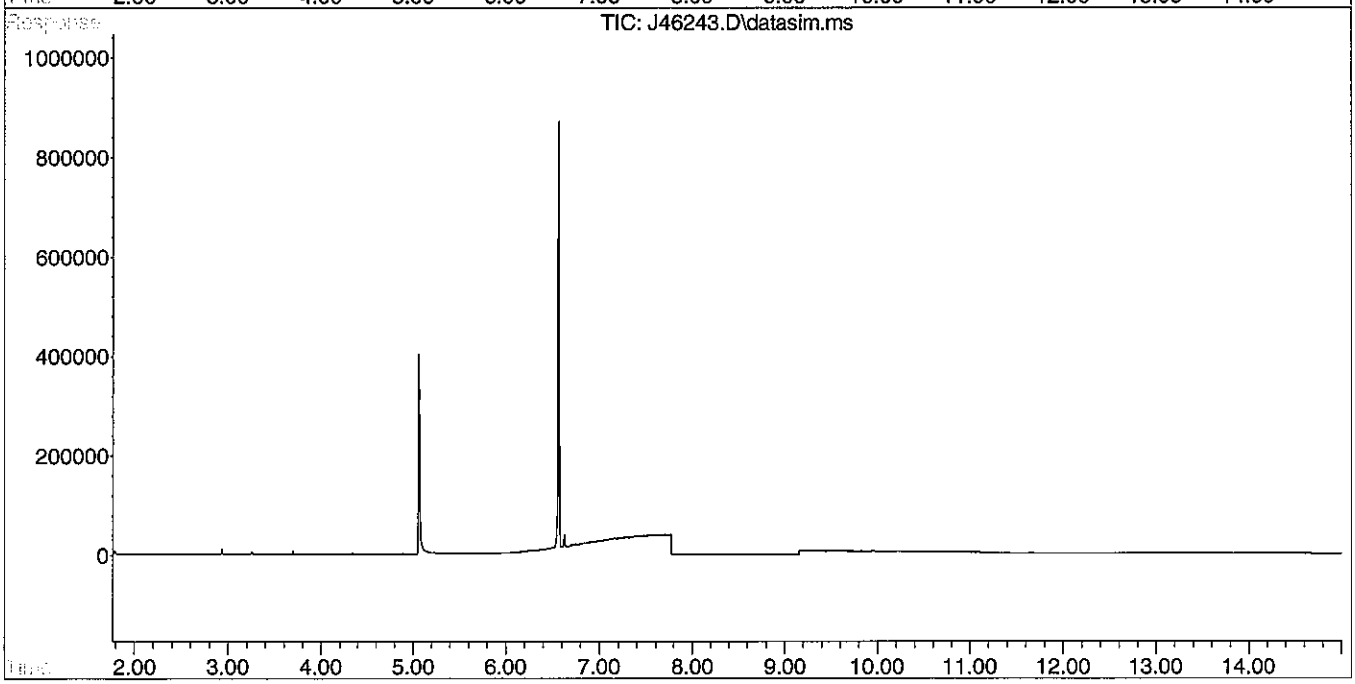


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46243.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 7:30 pm
Operator : AR
Sample : 73485-7
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:24:35 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
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400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS104

SAMPLE DATA

Lab Sample ID: 73485-8
Matrix: Solid
Percent Solid: 94
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		13900	µg/kg	**8980 J**
Diesel PAH Analytes	Naphthalene	279	µg/kg	U
	2-Methylnaphthalene	279	µg/kg	U
	Phenanthrene	279	µg/kg	U
	Acenaphthene	279	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	279	µg/kg	U
	Fluorene	279	µg/kg	U
	Anthracene	279	µg/kg	U
	Fluoranthene	279	µg/kg	U
	Pyrene	279	µg/kg	U
	Benzo[a]anthracene	279	µg/kg	U
	Chrysene	279	µg/kg	U
	Benzo[b]fluoranthene	279	µg/kg	U
	Benzo[k]fluoranthene	279	µg/kg	U
	Benzo[a]pyrene	279	µg/kg	U
	Indeno[1,2,3-cd]pyrene	279	µg/kg	U
	Dibenzo[a,h]anthracene	279	µg/kg	U
	Benzo[g,h,i]perylene	279	µg/kg	U
C9-C18 Aliphatic Hydrocarbons[1]		13900	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		13900	µg/kg	**32900**
C11-C22 Aromatic Hydrocarbons[1,2]		13900	µg/kg	**8980 J**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				87
Aromatic Surrogate % Recovery (O-Terphenyl)				83
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				84
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				76
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

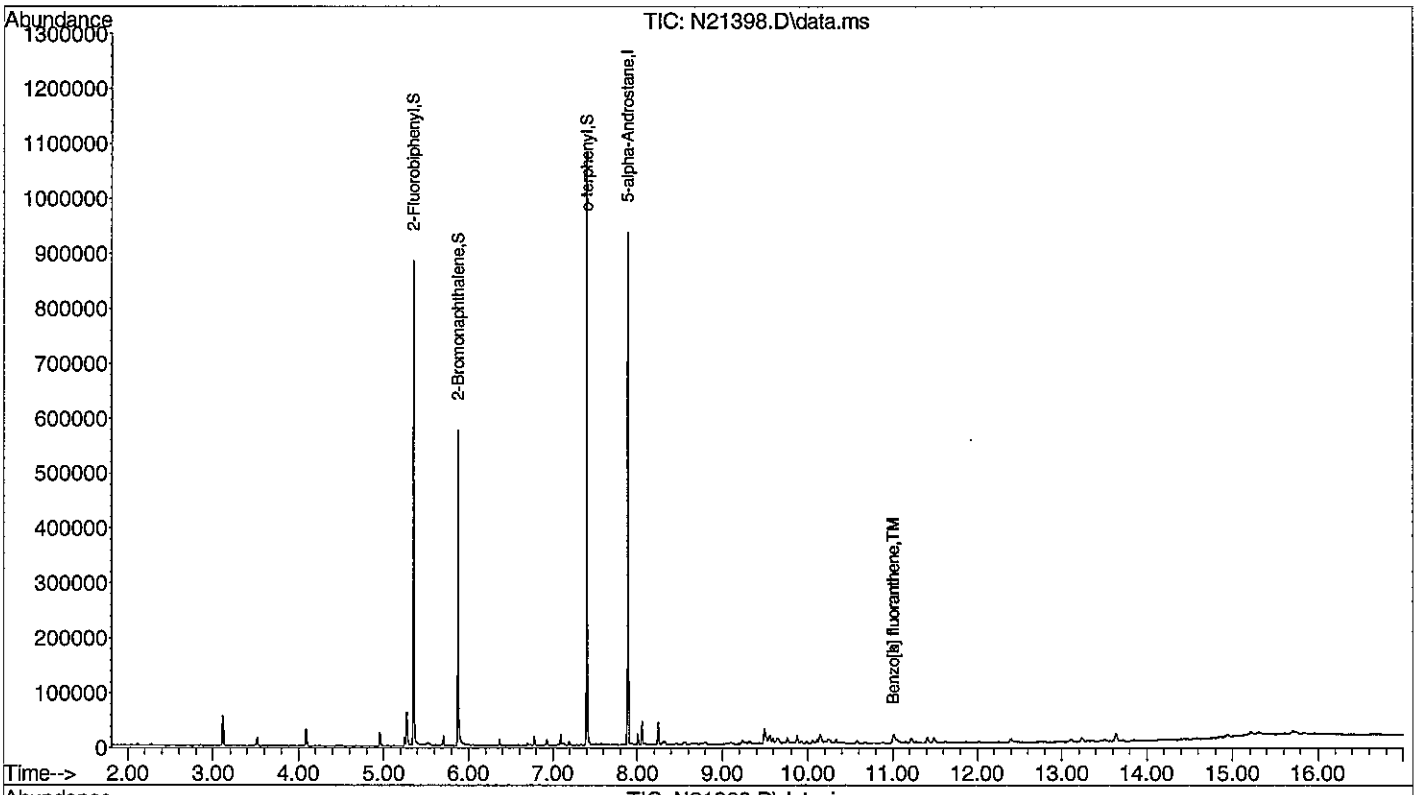
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

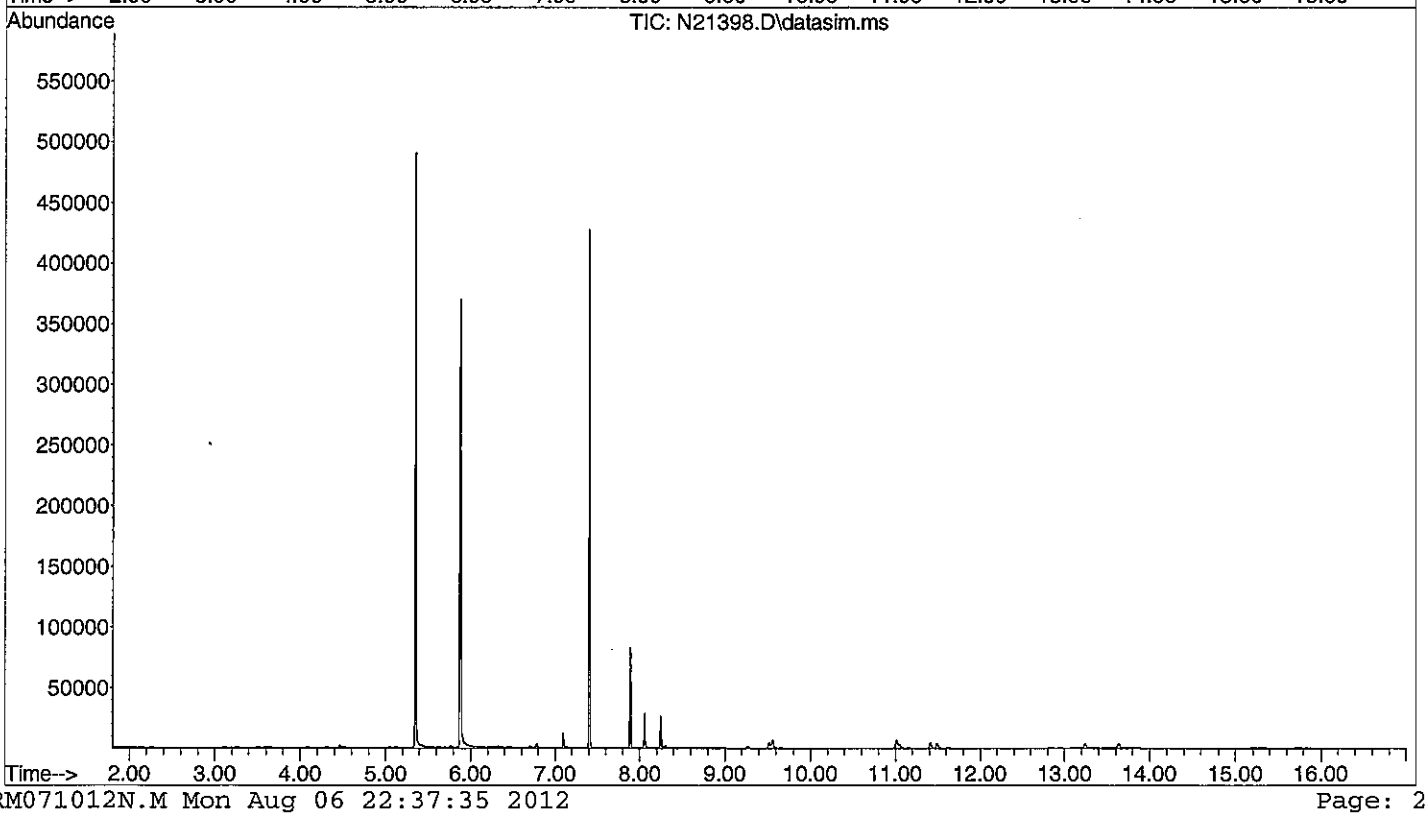
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21398.D
Acq On : 6 Aug 2012 8:33 pm
Operator : AR
Sample : 73485-8
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 22:37:35 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

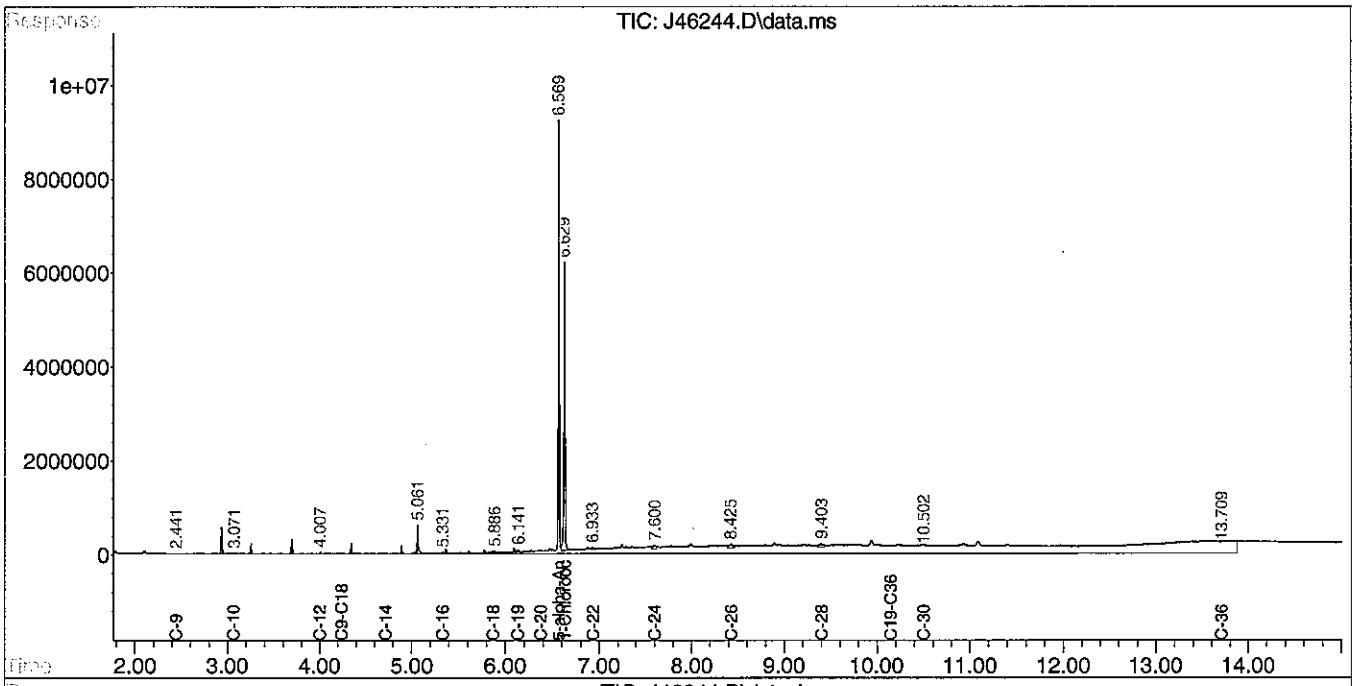


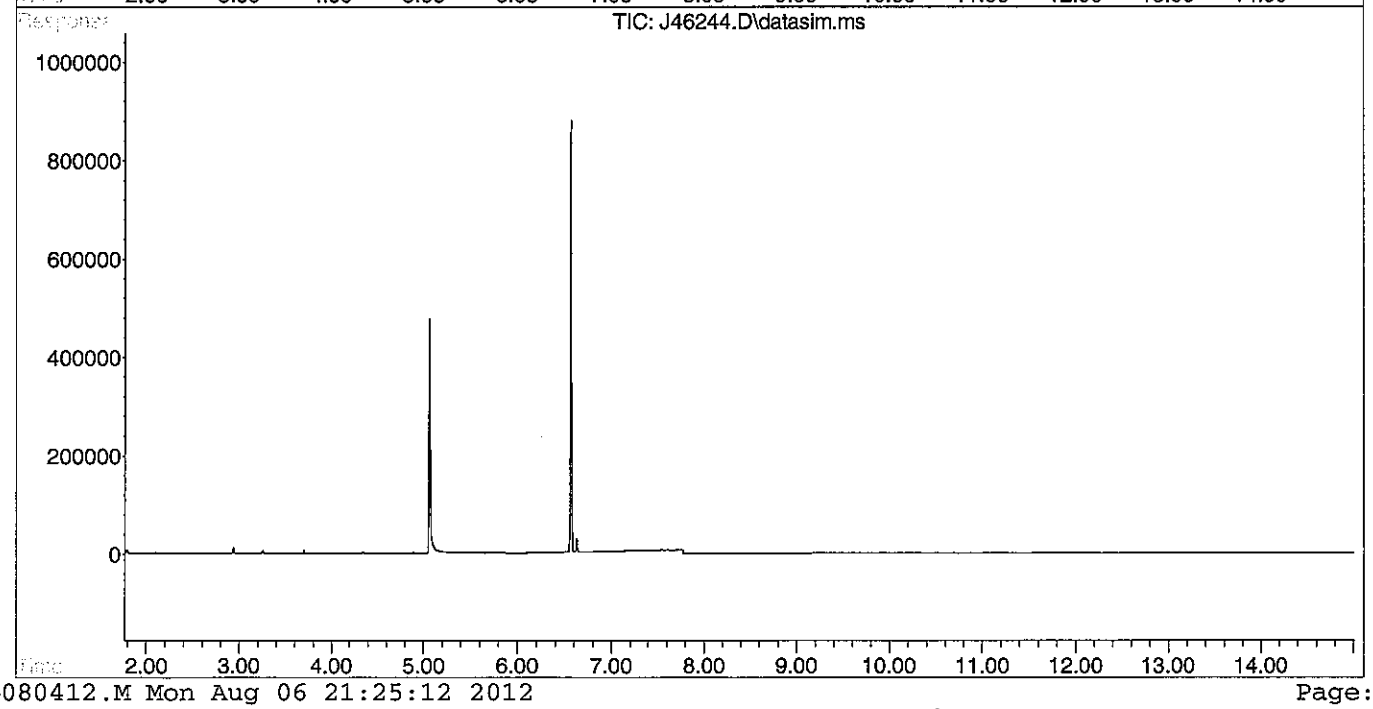


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46244.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 7:50 pm
Operator : AR
Sample : 73485-8
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:05:40 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS105

SAMPLE DATA

Lab Sample ID: 73485-9
Matrix: Solid
Percent Solid: 86
Dilution Factor: 6
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/07/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		76500	µg/kg	**623000**
Diesel PAH Analytes	Naphthalene	1530	µg/kg	**2520**
	2-Methylnaphthalene	1530	µg/kg	**1620**
	Phenanthrene	1530	µg/kg	**37400**
	Acenaphthene	1530	µg/kg	**3940**
Other Target PAH Analytes	Acenaphthylene	1530	µg/kg	**860 J**
	Fluorene	1530	µg/kg	**4550**
	Anthracene	1530	µg/kg	**7160**
	Fluoranthene	1530	µg/kg	**34200**
	Pyrene	1530	µg/kg	**29400**
	Benzo[a]anthracene	1530	µg/kg	**16800**
	Chrysene	1530	µg/kg	**15600**
	Benzo[b]fluoranthene	1530	µg/kg	**19800**
	Benzo[k]fluoranthene	1530	µg/kg	**6540**
	Benzo[a]pyrene	1530	µg/kg	**15500**
	Indeno[1,2,3-cd]pyrene	1530	µg/kg	**10500**
	Dibenzo[a,h]anthracene	1530	µg/kg	**2630**
	Benzo[g,h,i]perylene	1530	µg/kg	**8960**
C9-C18 Aliphatic Hydrocarbons[1]		153000	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		153000	µg/kg	**512000**
C11-C22 Aromatic Hydrocarbons[1,2]		76500	µg/kg	**405000**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				77
Aromatic Surrogate % Recovery (O-Terphenyl)				71
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				74
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				70
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

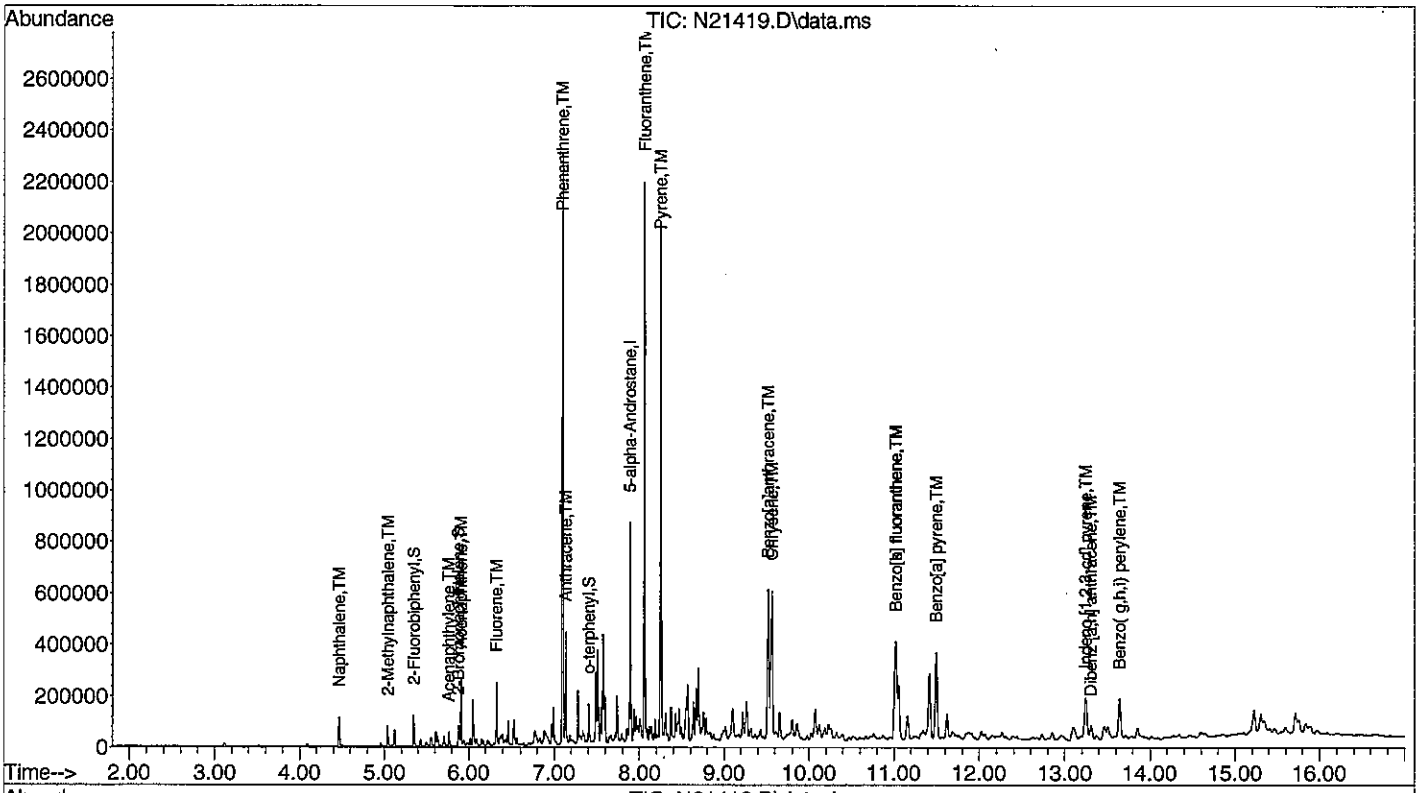
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

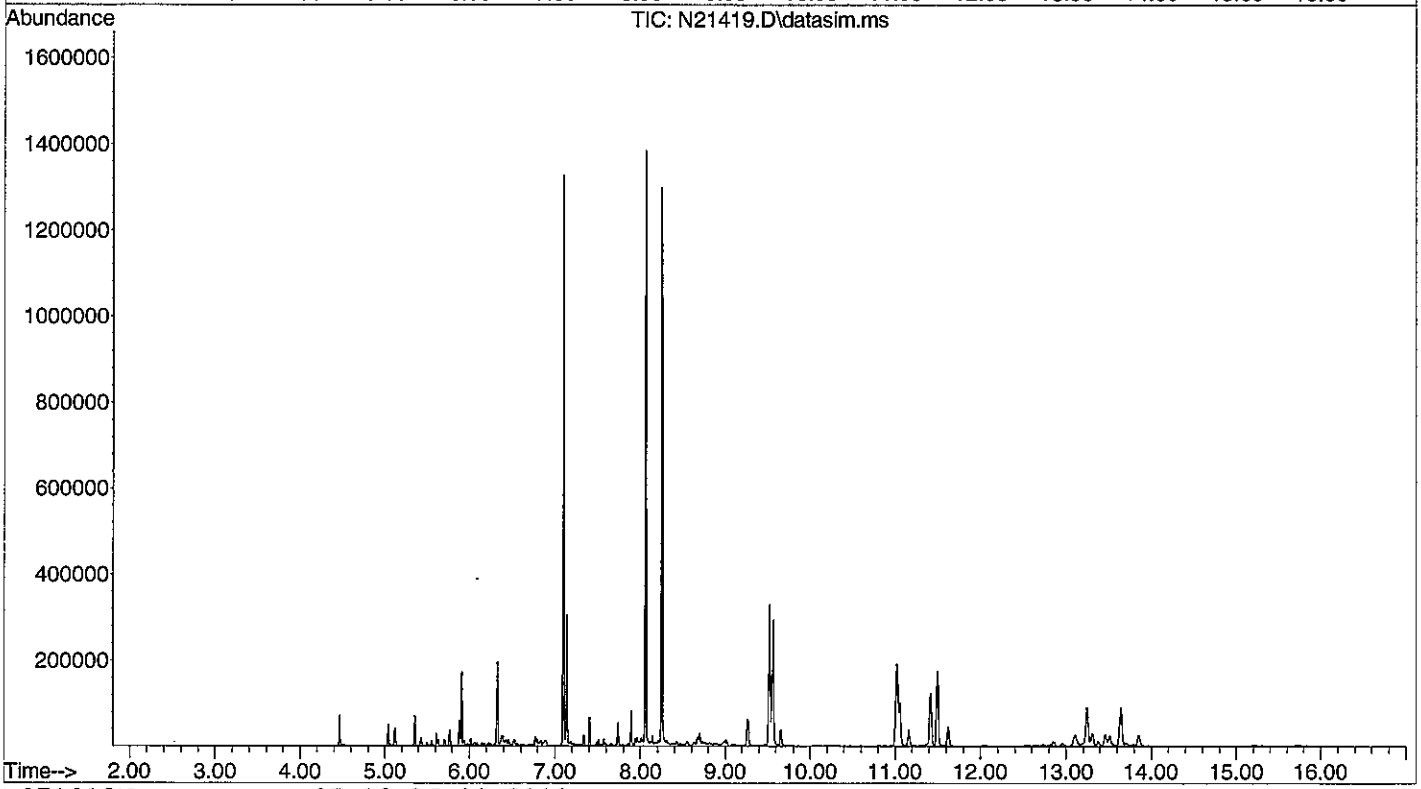
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: Mitchell

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21419.D
Acq On : 7 Aug 2012 9:11 am
Operator : AR
Sample : 73485-9,,1:5
Misc : SOIL,ARO
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Aug 07 10:36:00 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

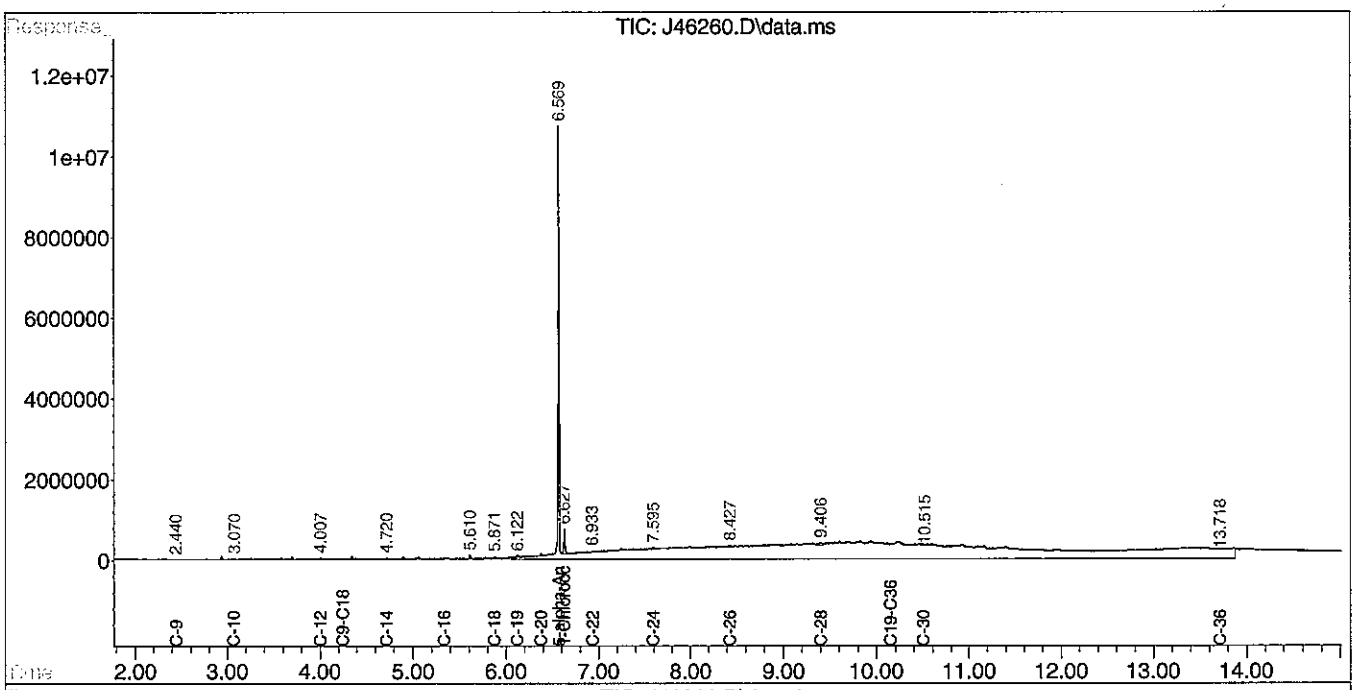


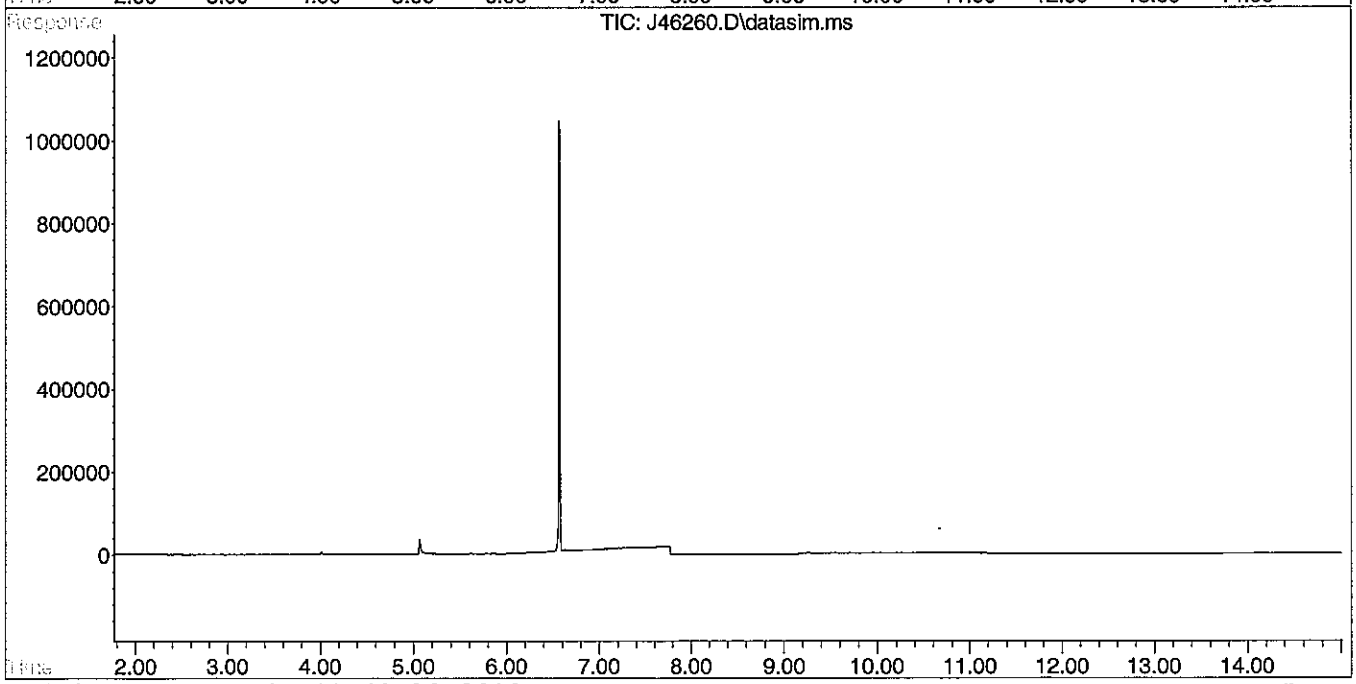


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46260.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 5:04 am
Operator : AR
Sample : 73485-9,,1:10
Misc : SOIL,ALI
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 07 11:42:37 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: SS10X

SAMPLE DATA

Lab Sample ID: 73485-10
Matrix: Solid
Percent Solid: 94
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		13900	µg/kg	**38400**
Diesel PAH Analytes	Naphthalene	279	µg/kg	U
	2-Methylnaphthalene	279	µg/kg	U
	Phenanthrene	279	µg/kg	**434**
	Acenaphthene	279	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	279	µg/kg	U
	Fluorene	279	µg/kg	U
	Anthracene	279	µg/kg	U
	Fluoranthene	279	µg/kg	**486**
	Pyrene	279	µg/kg	**428**
	Benzo[a]anthracene	279	µg/kg	**259 J**
	Chrysene	279	µg/kg	**243 J**
	Benzo[b]fluoranthene	279	µg/kg	**304**
	Benzo[k]fluoranthene	279	µg/kg	U
	Benzo[a]pyrene	279	µg/kg	**227 J**
	Indeno[1,2,3-cd]pyrene	279	µg/kg	**197 J**
	Dibenzo[a,h]anthracene	279	µg/kg	U
	Benzo[g,h,i]perylene	279	µg/kg	**170 J**
C9-C18 Aliphatic Hydrocarbons[1]		13900	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		13900	µg/kg	**80500**
C11-C22 Aromatic Hydrocarbons[1,2]		13900	µg/kg	**35600**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				75
Aromatic Surrogate % Recovery (O-Terphenyl)				80
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				86
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				76
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

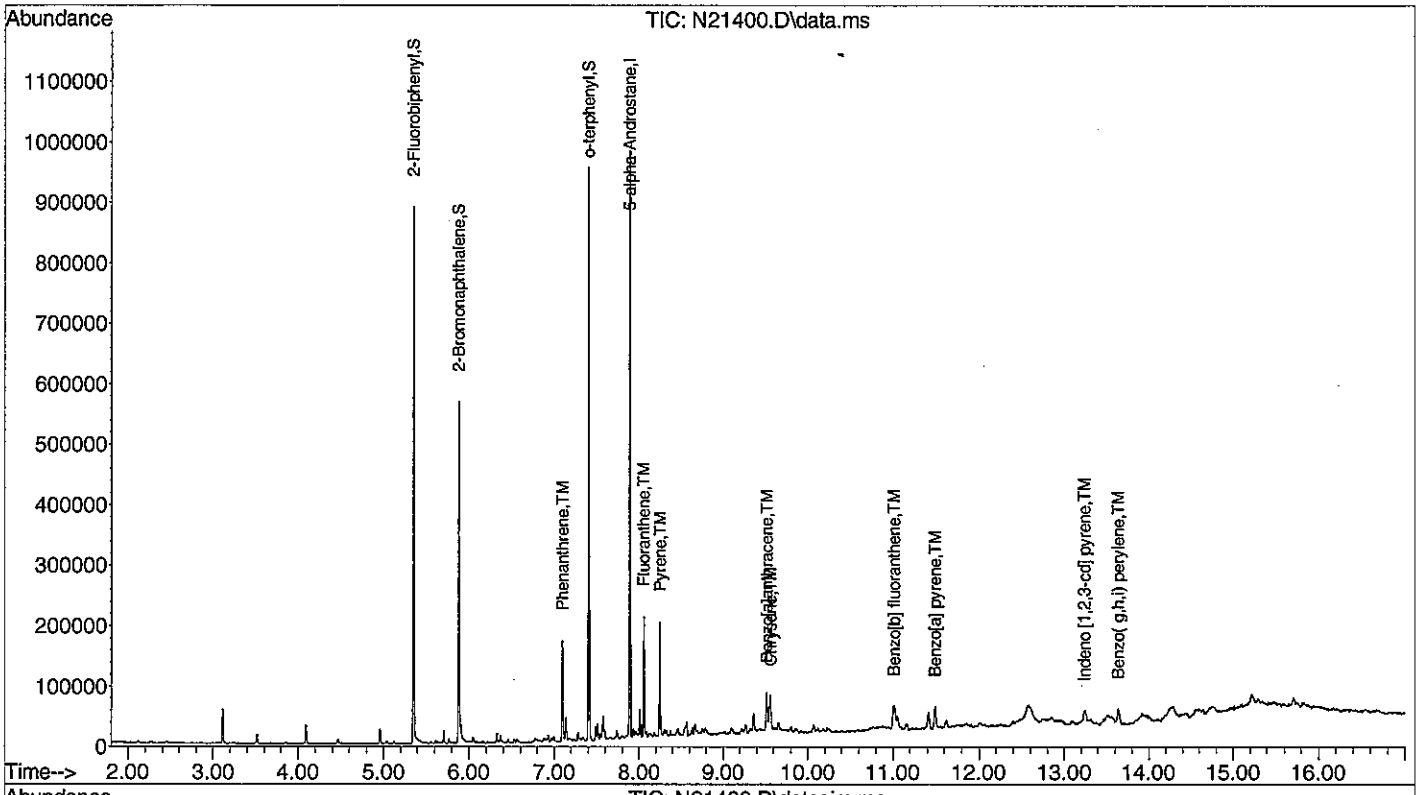
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

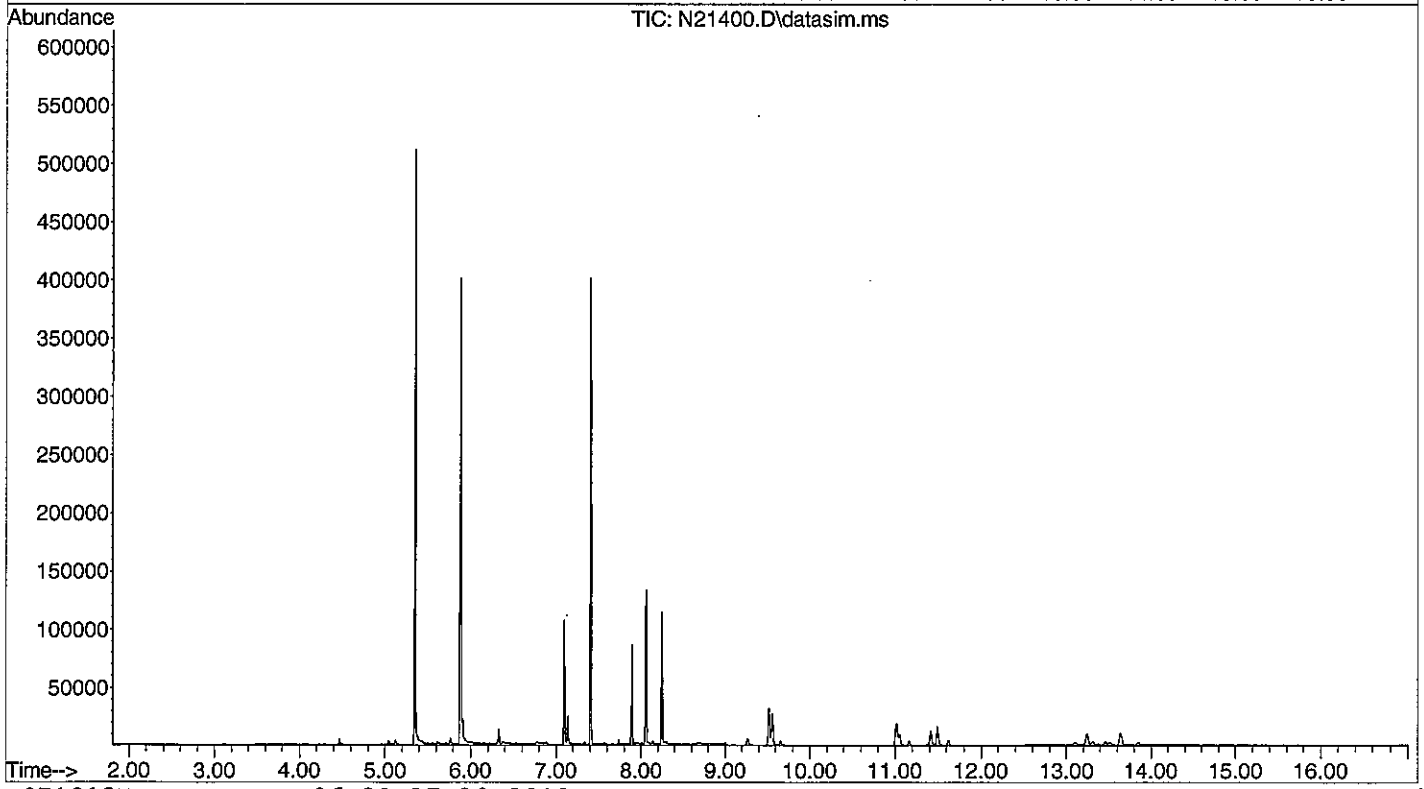
COMMENTS:EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21400.D
Acq On : 6 Aug 2012 9:14 pm
Operator : AR
Sample : 73485-10
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 06 22:37:39 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

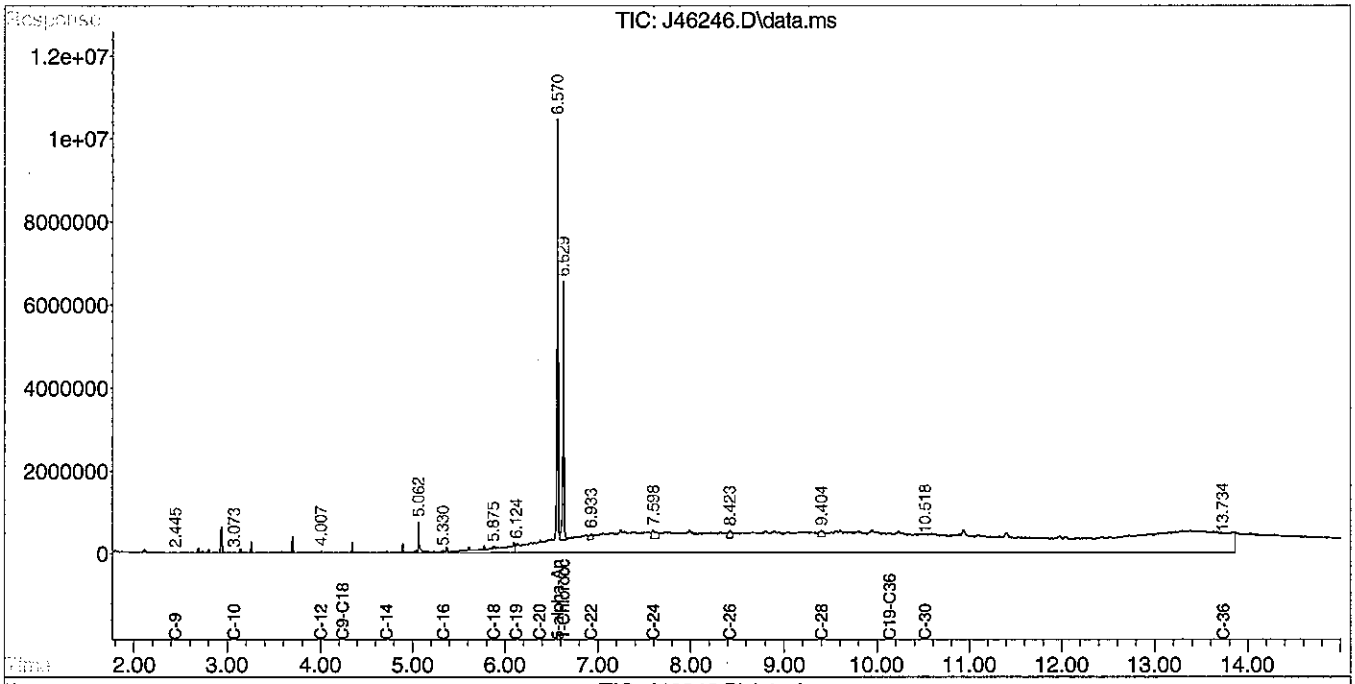


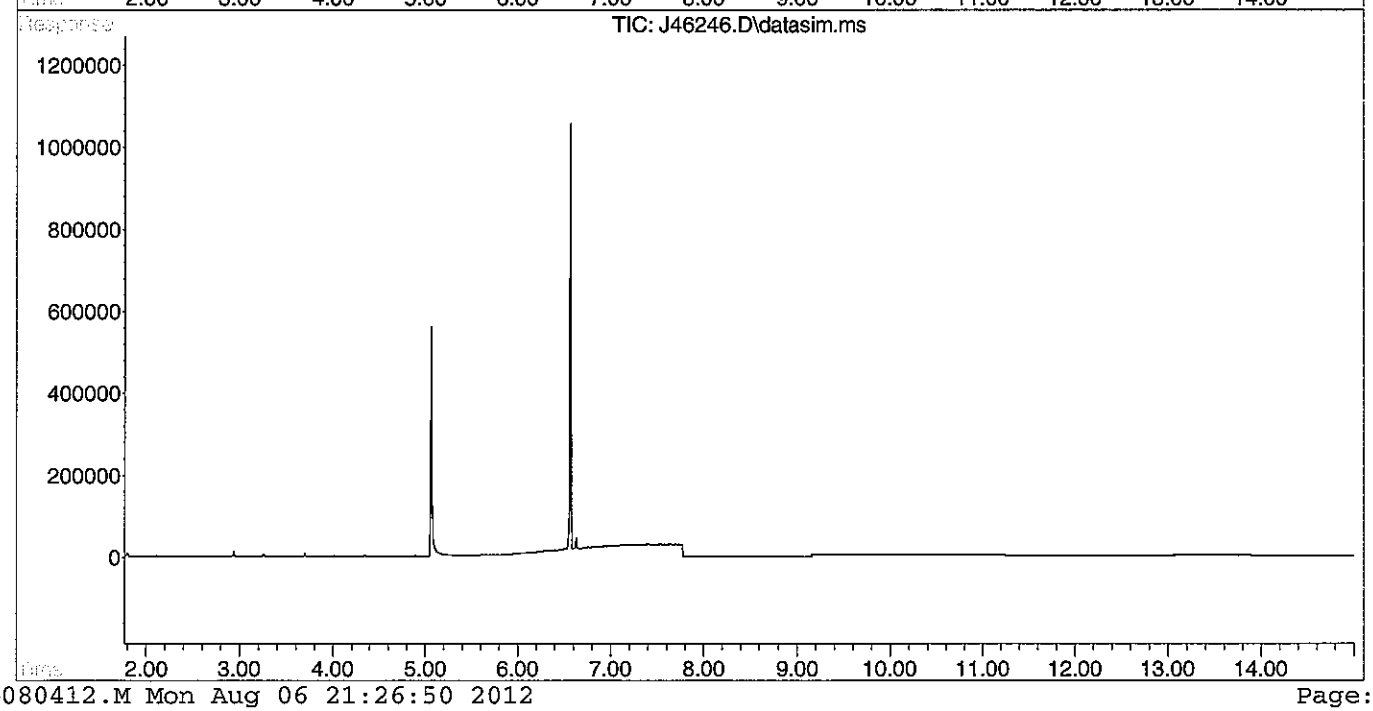


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46246.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 8:31 pm
Operator : AR
Sample : 73485-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:26:39 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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800-929-9906

August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW101

SAMPLE DATA

Lab Sample ID: 73485-11
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/07/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		100	µg/L	U
Diesel PAH Analytes	Naphthalene	4	µg/L	U
	2-Methylnaphthalene	4	µg/L	U
	Phenanthrene	4	µg/L	U
	Acenaphthene	4	µg/L	U
Other Target PAH Analytes	Acenaphthylene	4	µg/L	U
	Fluorene	4	µg/L	U
	Anthracene	4	µg/L	U
	Fluoranthene	4	µg/L	U
	Pyrene	4	µg/L	U
	Benzo[a]anthracene	4	µg/L	U
	Chrysene	4	µg/L	U
	Benzo[b]fluoranthene	4	µg/L	U
	Benzo[k]fluoranthene	4	µg/L	U
	Benzo[a]pyrene	4	µg/L	U
	Indeno[1,2,3-cd]pyrene	4	µg/L	U
	Dibenzo[a,h]anthracene	4	µg/L	U
	Benzo[g,h,i]perylene	4	µg/L	U
C9-C18 Aliphatic Hydrocarbons[1]		100	µg/L	U
C19-C36 Aliphatic Hydrocarbons[1]		100	µg/L	U
C11-C22 Aromatic Hydrocarbons[1,2]		100	µg/L	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				74
Aromatic Surrogate % Recovery (O-Terphenyl)				85
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				91
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				86
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

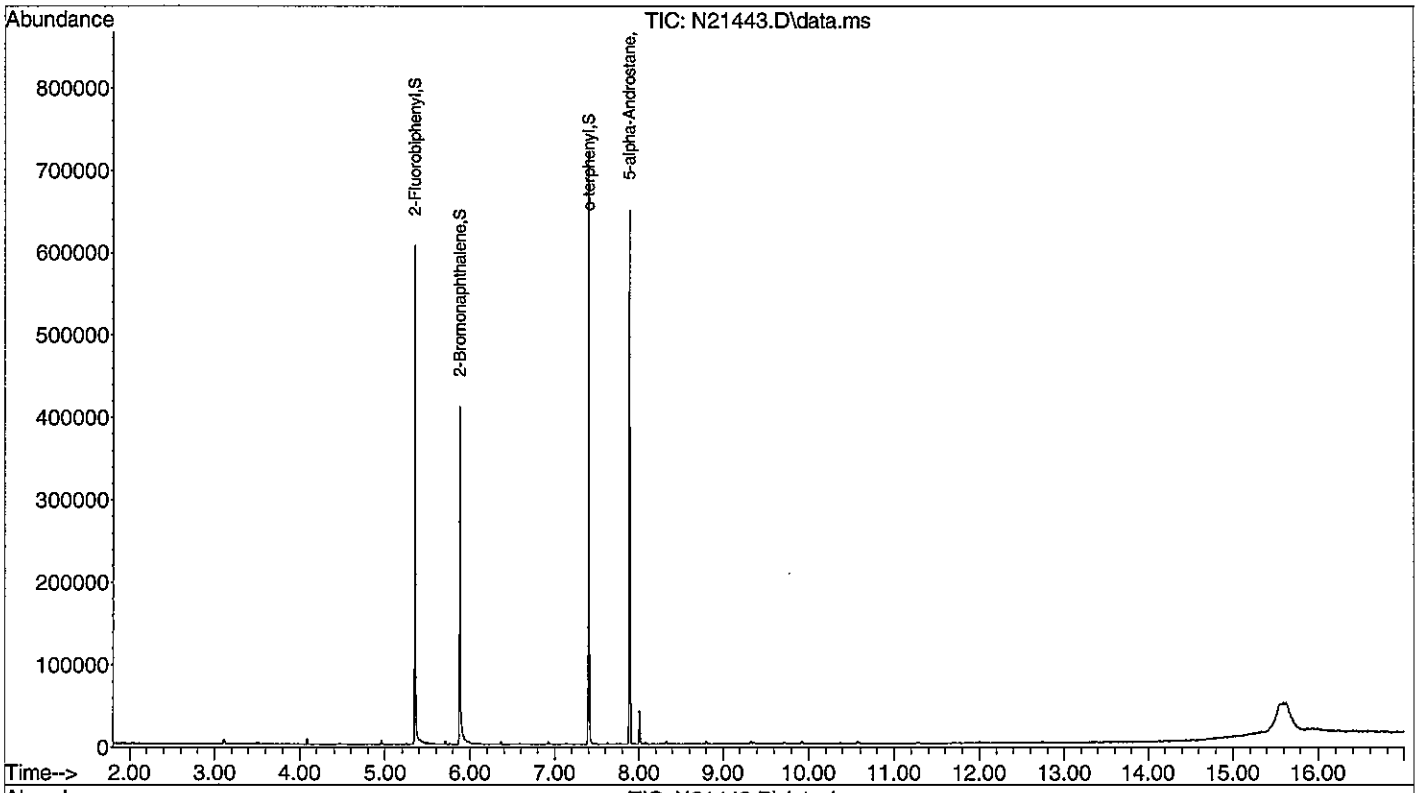
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

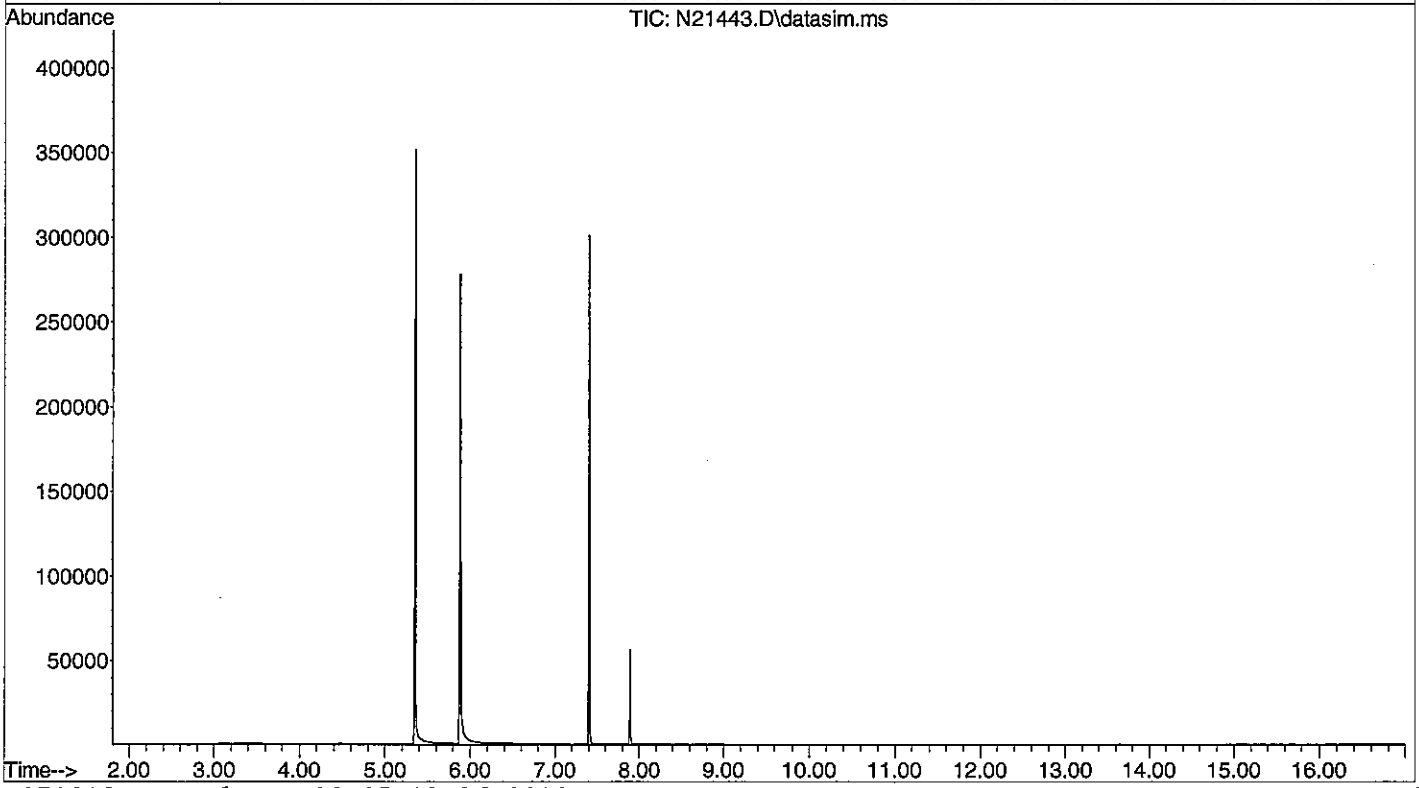
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

SIGNATURE: Angelina Richard

Data Path : C:\msdchem\1\DATA\080712-N\
Data File : N21443.D
Acq On : 7 Aug 2012 6:04 pm
Operator : AR
Sample : 73485-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 08 05:13:30 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:14 2012
Response via : Initial Calibration

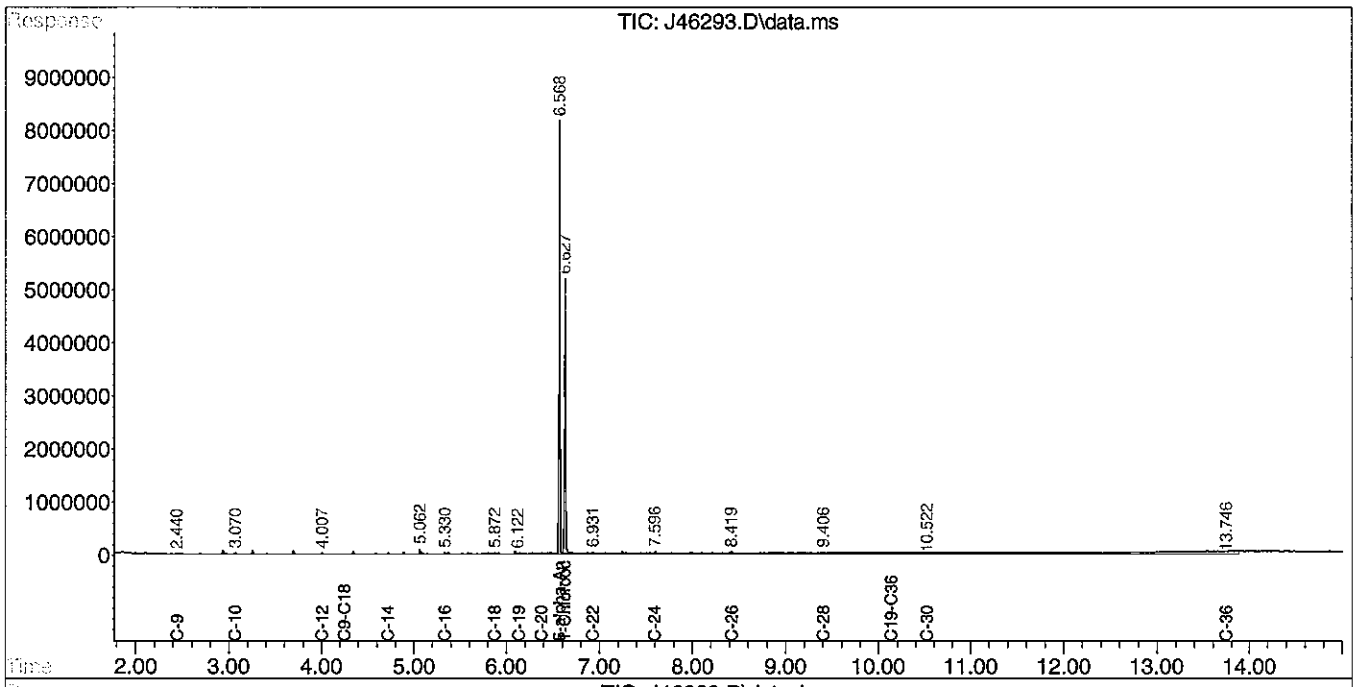


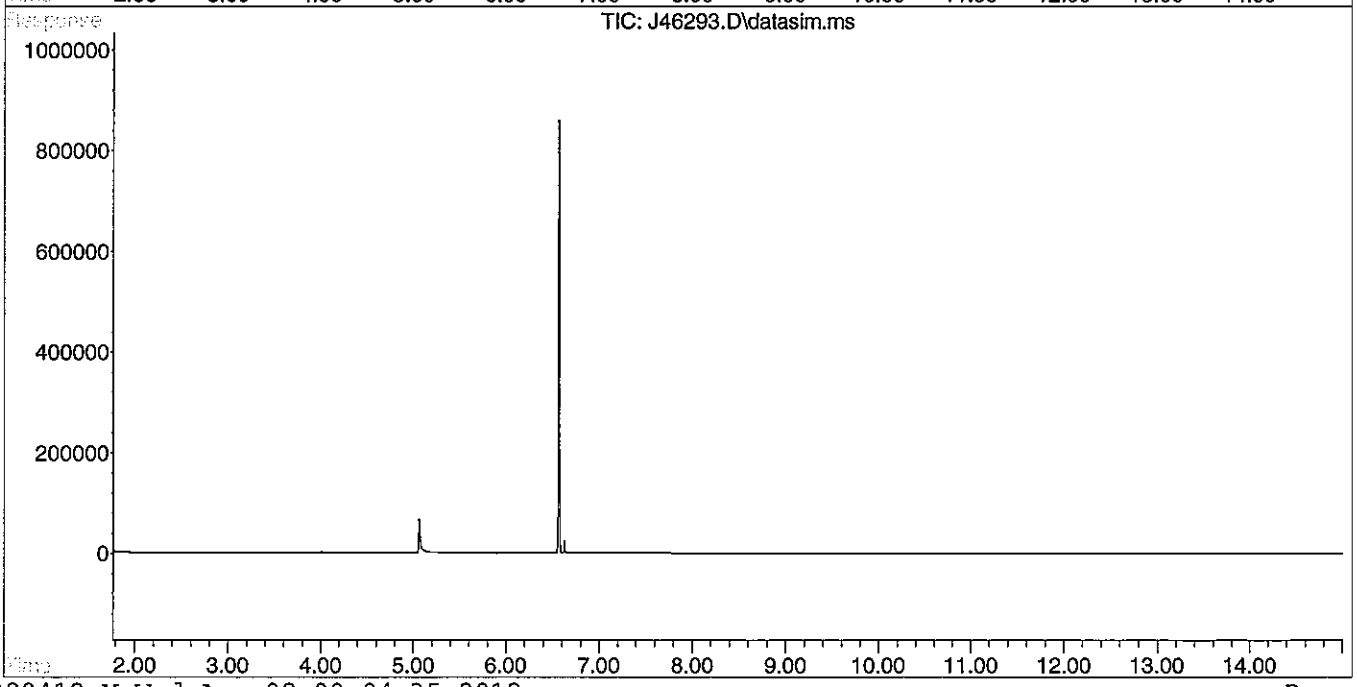


Data Path : C:\msdchem\1\DATA\080712-J\
Data File : J46293.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 7:07 pm
Operator : AR
Sample : 73485-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 00:04:34 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
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400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW102

SAMPLE DATA

Lab Sample ID: 73485-12
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/07/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		100	µg/L	U
Diesel PAH Analytes	Naphthalene	4	µg/L	U
	2-Methylnaphthalene	4	µg/L	U
	Phenanthrene	4	µg/L	U
	Acenaphthene	4	µg/L	U
Other Target PAH Analytes	Acenaphthylene	4	µg/L	U
	Fluorene	4	µg/L	U
	Anthracene	4	µg/L	U
	Fluoranthene	4	µg/L	U
	Pyrene	4	µg/L	U
	Benzo[a]anthracene	4	µg/L	U
	Chrysene	4	µg/L	U
	Benzo[b]fluoranthene	4	µg/L	U
	Benzo[k]fluoranthene	4	µg/L	U
	Benzo[a]pyrene	4	µg/L	U
	Indeno[1,2,3-cd]pyrene	4	µg/L	U
	Dibenzo[a,h]anthracene	4	µg/L	U
	Benzo[g,h,i]perylene	4	µg/L	U
C9-C18 Aliphatic Hydrocarbons[1]		100	µg/L	U
C19-C36 Aliphatic Hydrocarbons[1]		100	µg/L	U
C11-C22 Aromatic Hydrocarbons[1,2]		100	µg/L	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				65
Aromatic Surrogate % Recovery (O-Terphenyl)				94
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				104
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				94
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

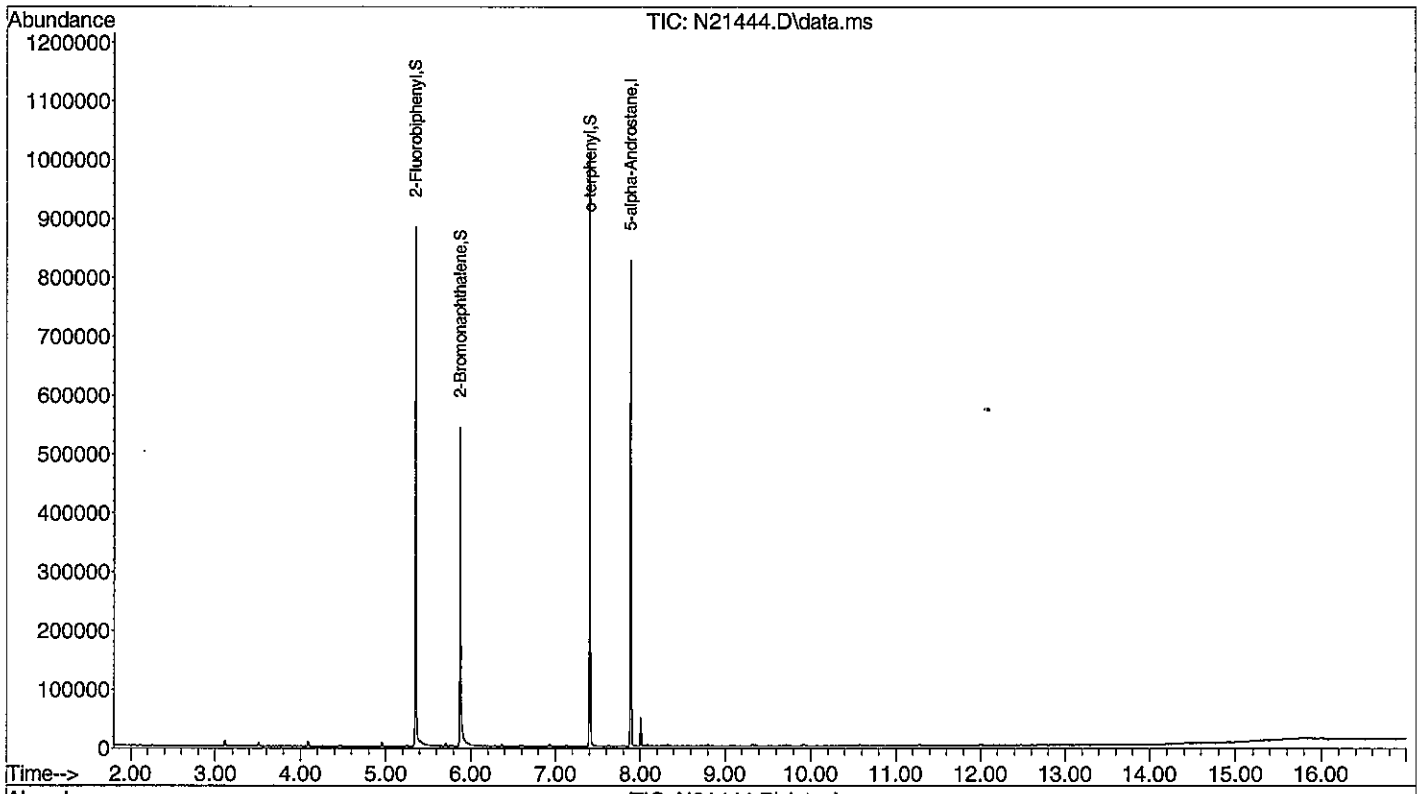
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

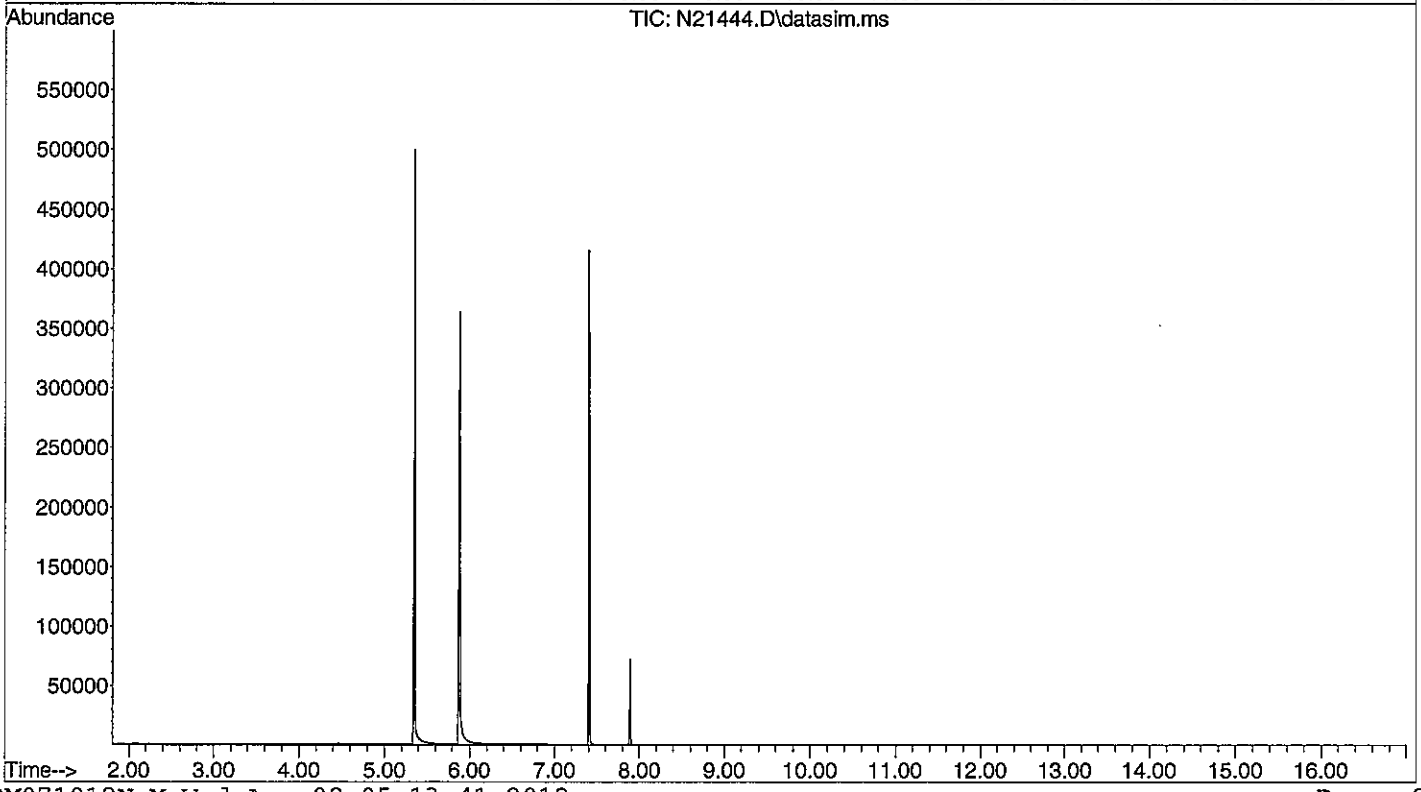
COMMENTS:EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

SIGNATURE: Angelina Richard

Data Path : C:\msdchem\1\DATA\080712-N\
Data File : N21444.D
Acq On : 7 Aug 2012 6:24 pm
Operator : AR
Sample : 73485-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 05:13:41 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:14 2012
Response via : Initial Calibration

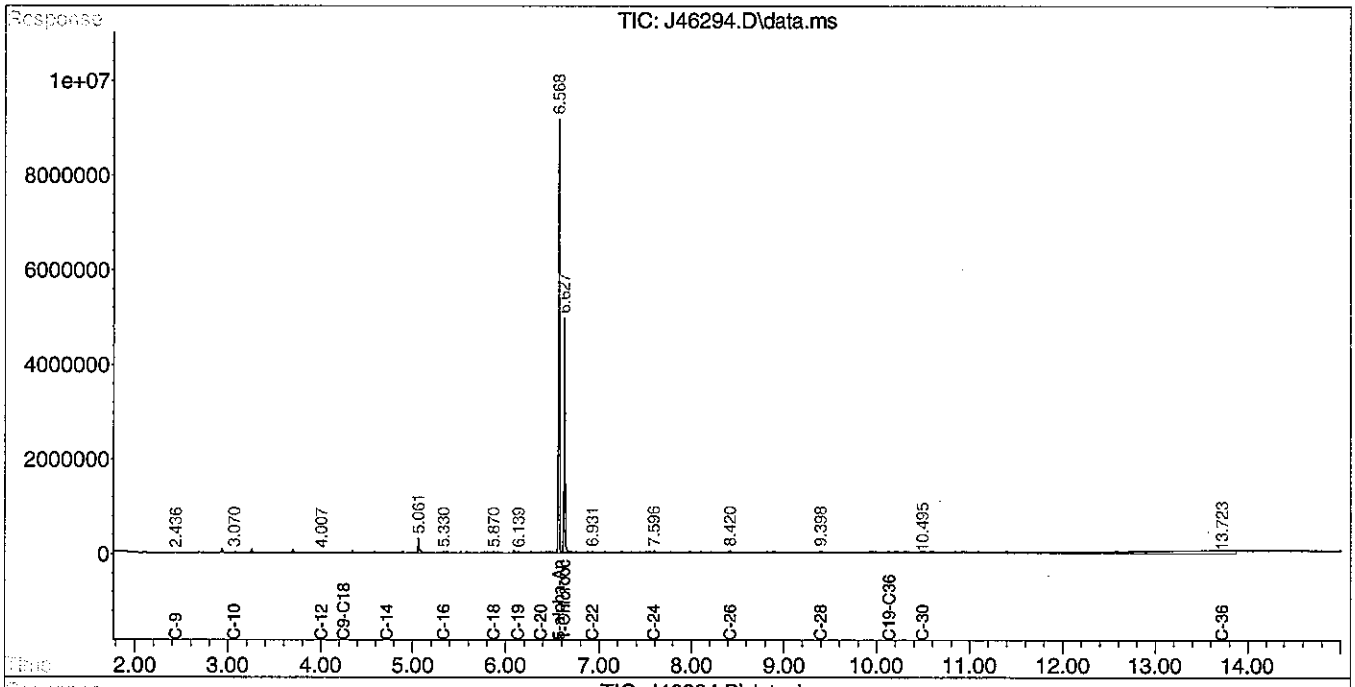


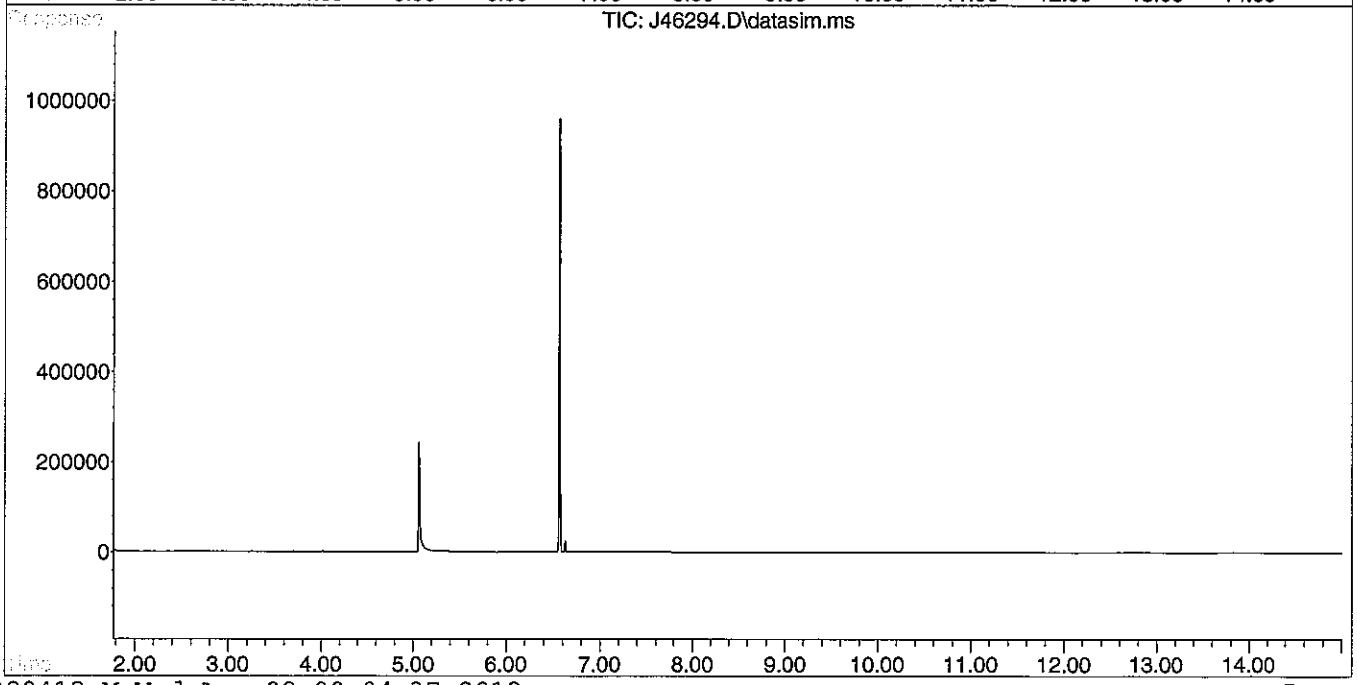


Data Path : C:\msdchem\1\DATA\080712-J\
Data File : J46294.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 7:28 pm
Operator : AR
Sample : 73485-12
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 00:04:36 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW103

SAMPLE DATA

Lab Sample ID: 73485-13
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/07/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		100	µg/L	U
Diesel PAH Analytes	Naphthalene	4	µg/L	U
	2-Methylnaphthalene	4	µg/L	U
	Phenanthrene	4	µg/L	U
	Acenaphthene	4	µg/L	U
Other Target PAH Analytes	Acenaphthylene	4	µg/L	U
	Fluorene	4	µg/L	U
	Anthracene	4	µg/L	U
	Fluoranthene	4	µg/L	U
	Pyrene	4	µg/L	U
	Benzo[a]anthracene	4	µg/L	U
	Chrysene	4	µg/L	U
	Benzo[b]fluoranthene	4	µg/L	U
	Benzo[k]fluoranthene	4	µg/L	U
	Benzo[a]pyrene	4	µg/L	U
	Indeno[1,2,3-cd]pyrene	4	µg/L	U
	Dibenzo[a,h]anthracene	4	µg/L	U
	Benzo[g,h,i]perylene	4	µg/L	U
C9-C18 Aliphatic Hydrocarbons[1]		100	µg/L	U
C19-C36 Aliphatic Hydrocarbons[1]		100	µg/L	U
C11-C22 Aromatic Hydrocarbons[1,2]		100	µg/L	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				59
Aromatic Surrogate % Recovery (O-Terphenyl)				87
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				99
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				86
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

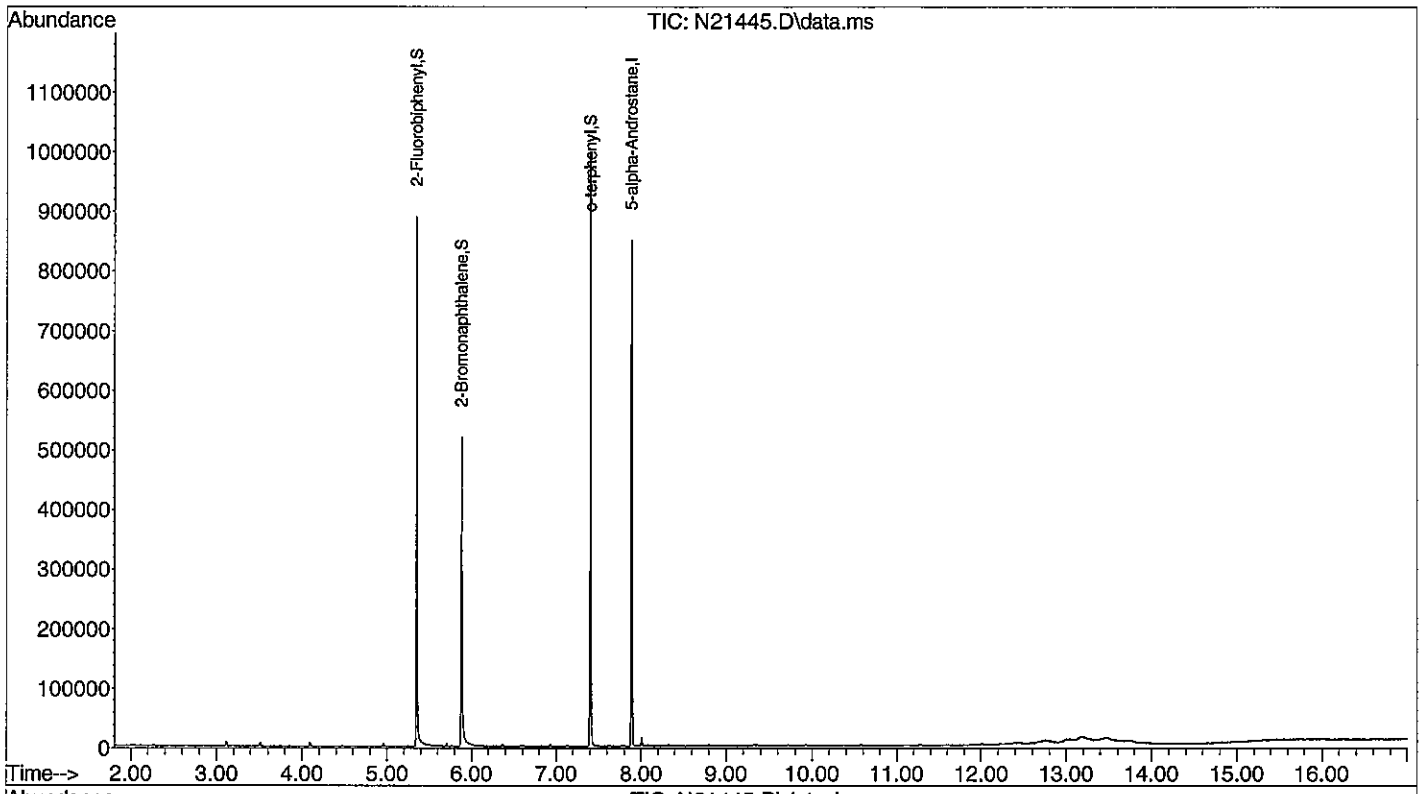
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

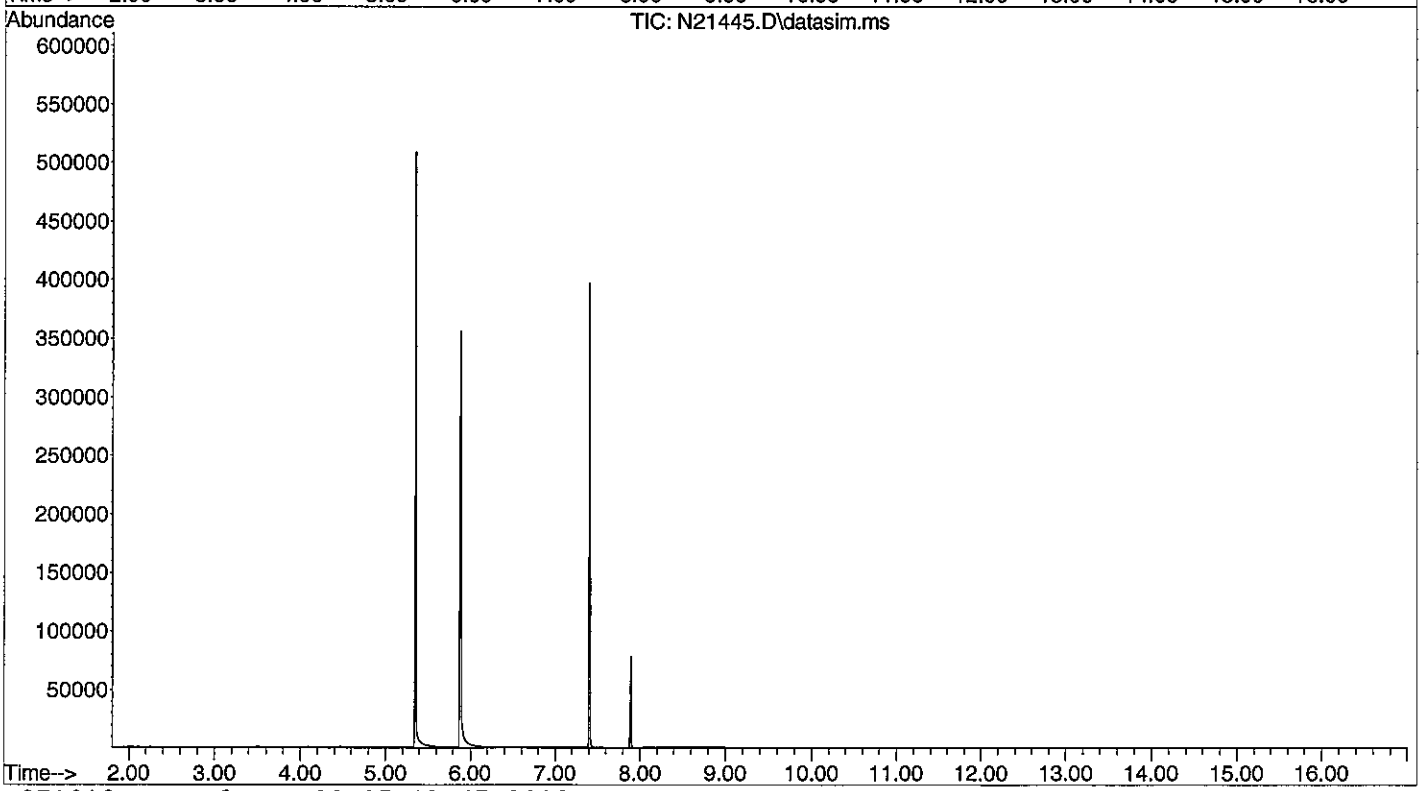
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

SIGNATURE: Angelina Richard

Data Path : C:\msdchem\1\DATA\080712-N\
Data File : N21445.D
Acq On : 7 Aug 2012 6:45 pm
Operator : AR
Sample : 73485-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 08 05:13:46 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:14 2012
Response via : Initial Calibration

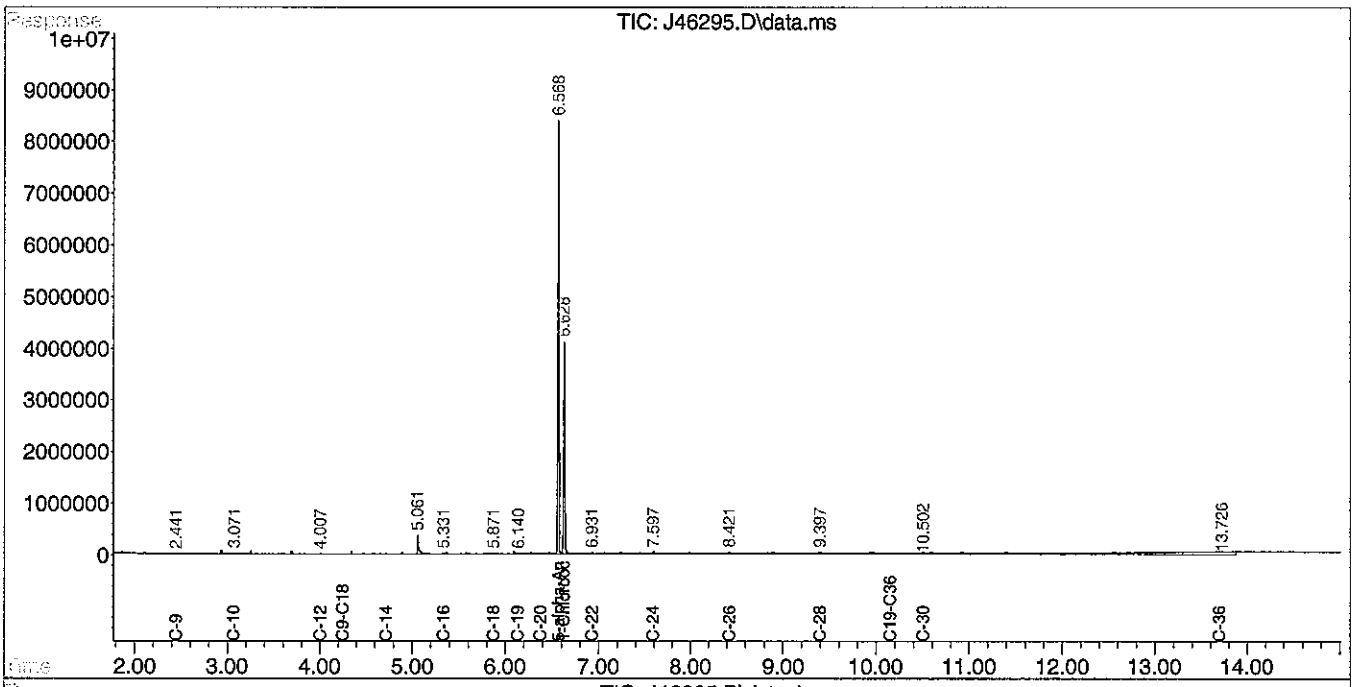


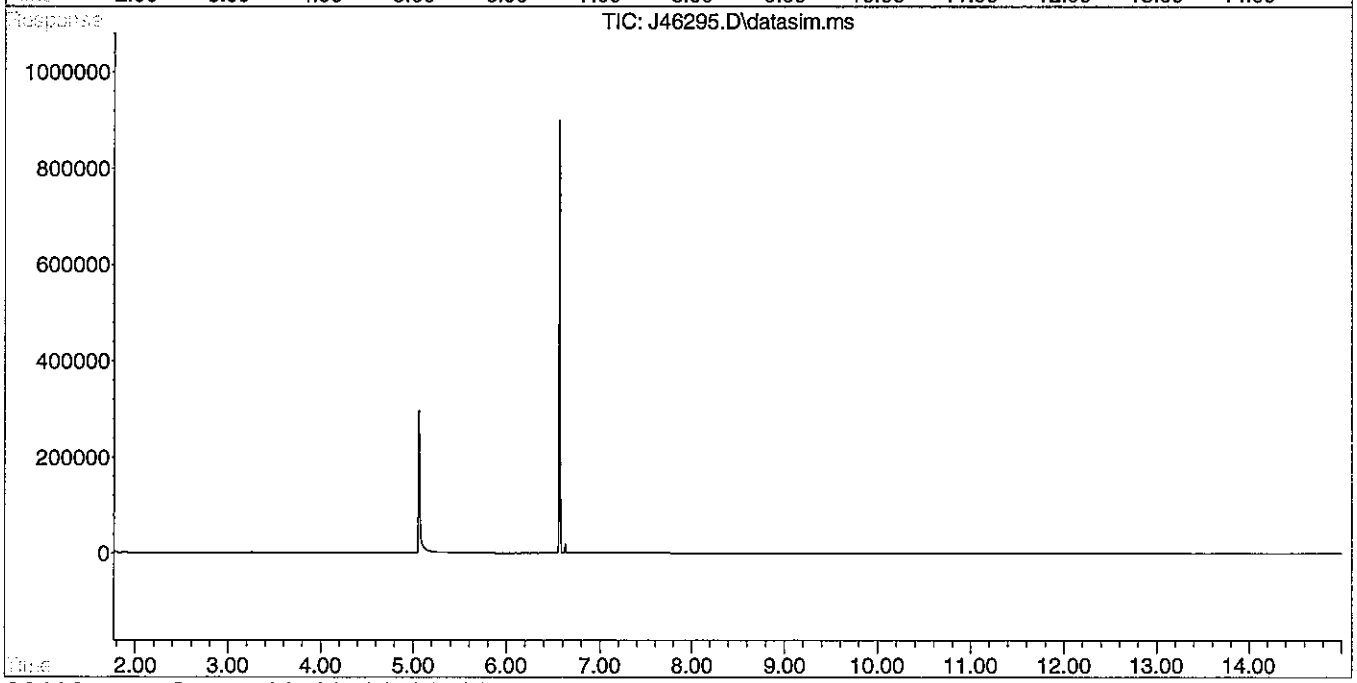


Data Path : C:\msdchem\1\DATA\080712-J\
Data File : J46295.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 7:49 pm
Operator : AR
Sample : 73485-13
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 00:04:38 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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800-929-9906

August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MW104

SAMPLE DATA

Lab Sample ID: 73485-14
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/07/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		100	µg/L	U
Diesel PAH Analytes	Naphthalene	4	µg/L	U
	2-Methylnaphthalene	4	µg/L	U
	Phenanthrene	4	µg/L	U
	Acenaphthene	4	µg/L	U
Other Target PAH Analytes	Acenaphthylene	4	µg/L	U
	Fluorene	4	µg/L	U
	Anthracene	4	µg/L	U
	Fluoranthene	4	µg/L	U
	Pyrene	4	µg/L	U
	Benzo[a]anthracene	4	µg/L	U
	Chrysene	4	µg/L	U
	Benzo[b]fluoranthene	4	µg/L	U
	Benzo[k]fluoranthene	4	µg/L	U
	Benzo[a]pyrene	4	µg/L	U
	Indeno[1,2,3-cd]pyrene	4	µg/L	U
	Dibenzo[a,h]anthracene	4	µg/L	U
	Benzo[g,h,i]perylene	4	µg/L	U
C9-C18 Aliphatic Hydrocarbons[1]		100	µg/L	U
C19-C36 Aliphatic Hydrocarbons[1]		100	µg/L	U
C11-C22 Aromatic Hydrocarbons[1,2]		100	µg/L	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				65
Aromatic Surrogate % Recovery (O-Terphenyl)				89
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				102
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				87
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

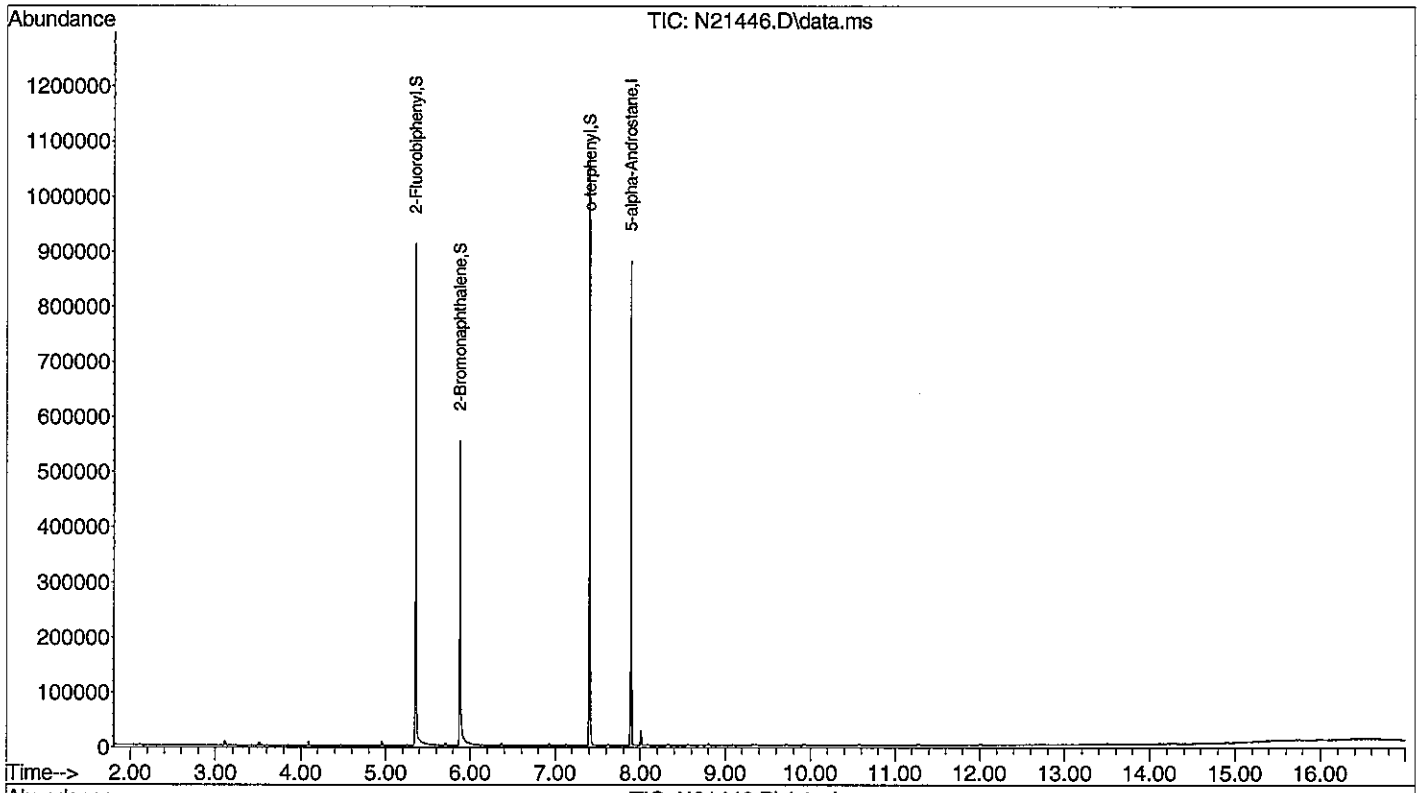
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

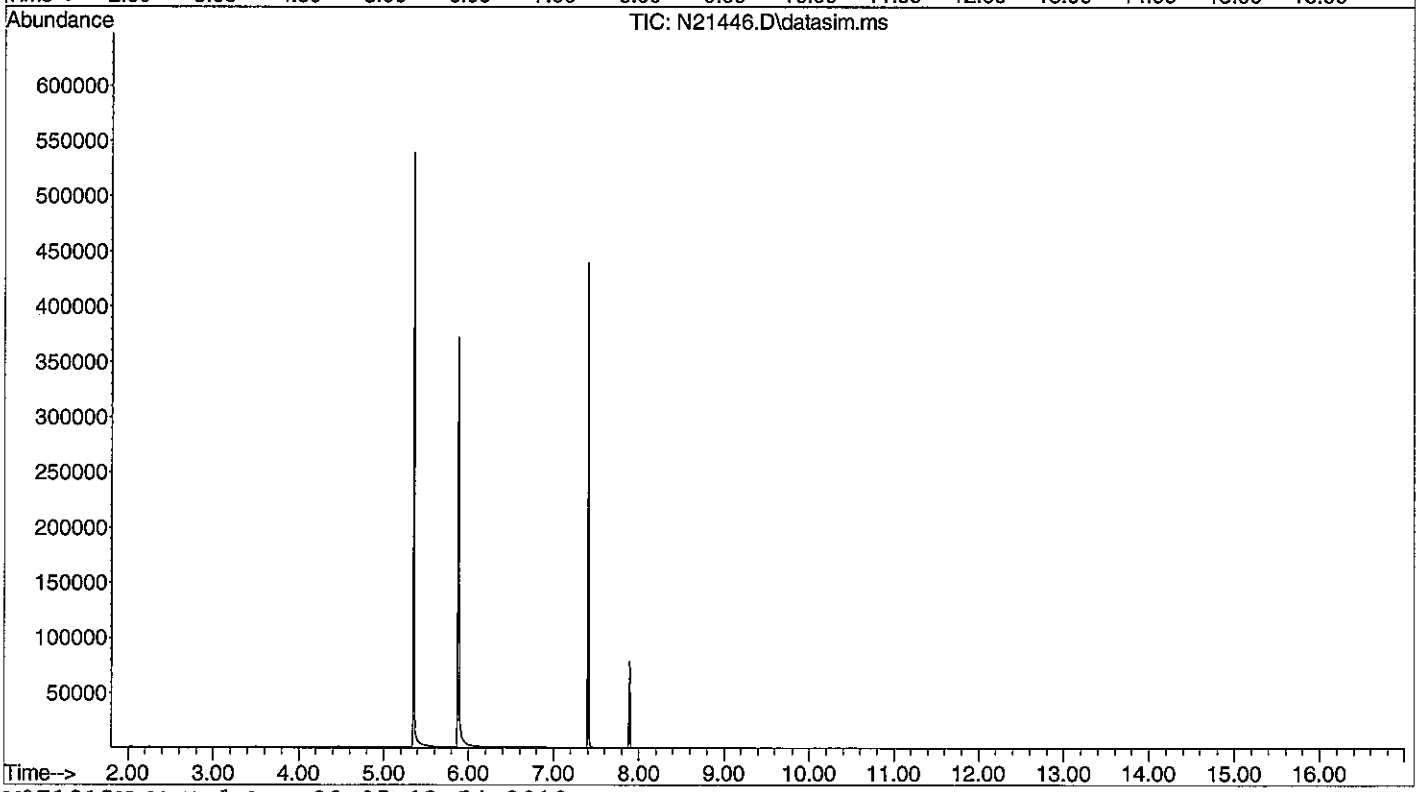
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

SIGNATURE: Angelina Richard

Data Path : C:\msdchem\1\DATA\080712-N\
Data File : N21446.D
Acq On : 7 Aug 2012 7:06 pm
Operator : AR
Sample : 73485-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 08 05:13:53 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:14 2012
Response via : Initial Calibration

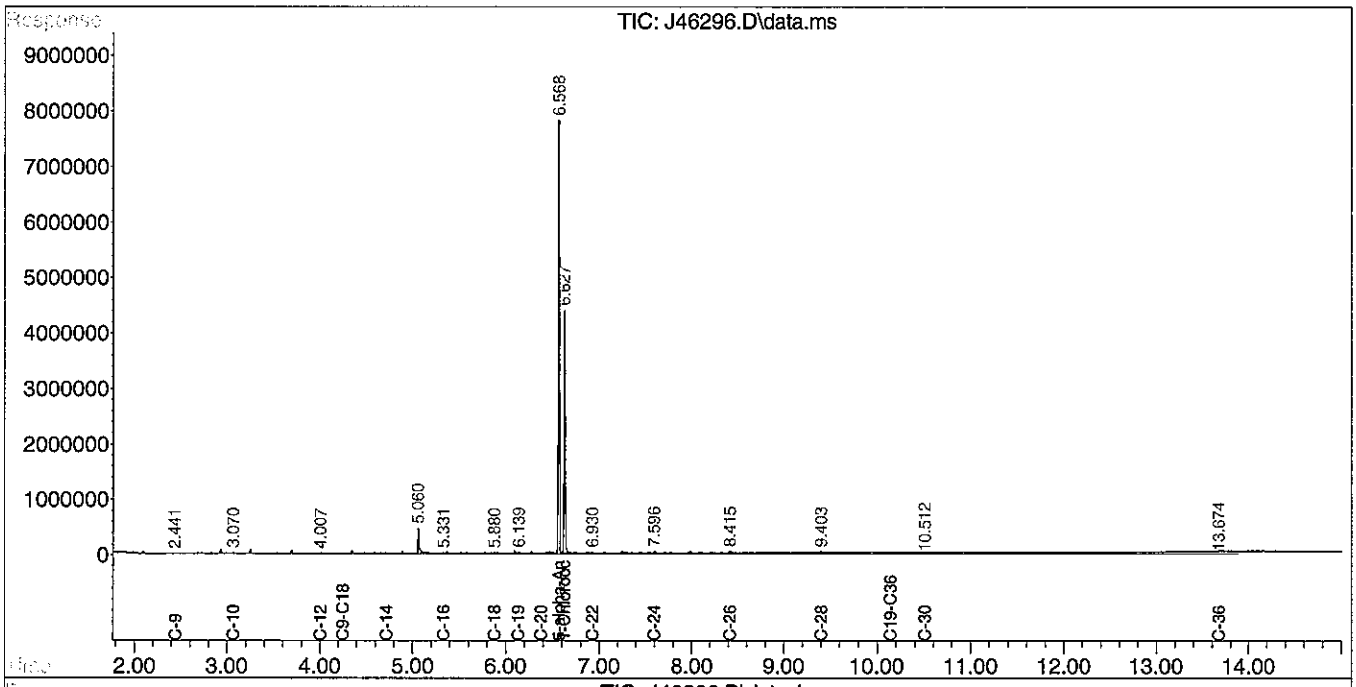


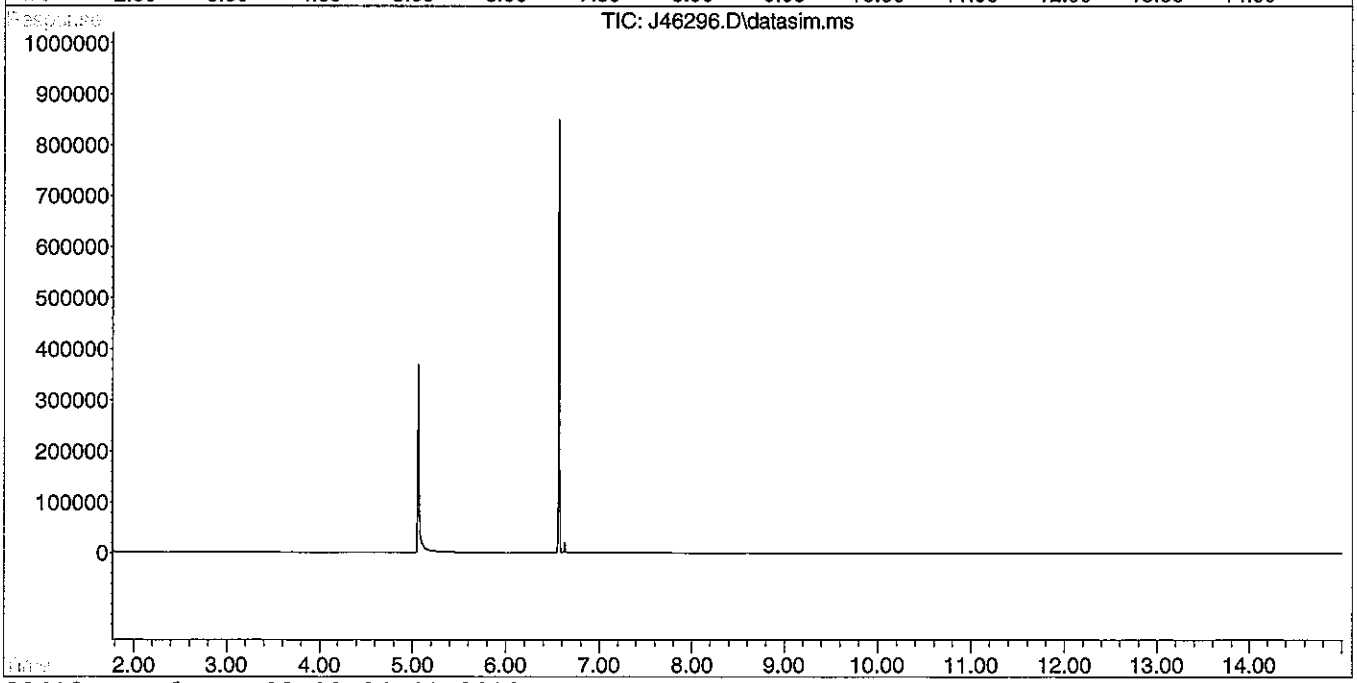


Data Path : C:\msdchem\1\DATA\080712-J\
Data File : J46296.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 8:09 pm
Operator : AR
Sample : 73485-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 00:04:40 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: MWX

SAMPLE DATA

Lab Sample ID: 73485-15
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/07/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		100	µg/L	U
Diesel PAH Analytes	Naphthalene	4	µg/L	U
	2-Methylnaphthalene	4	µg/L	U
	Phenanthrene	4	µg/L	U
	Acenaphthene	4	µg/L	U
Other Target PAH Analytes	Acenaphthylene	4	µg/L	U
	Fluorene	4	µg/L	U
	Anthracene	4	µg/L	U
	Fluoranthene	4	µg/L	U
	Pyrene	4	µg/L	U
	Benzo[a]anthracene	4	µg/L	U
	Chrysene	4	µg/L	U
	Benzo[b]fluoranthene	4	µg/L	U
	Benzo[k]fluoranthene	4	µg/L	U
	Benzo[a]pyrene	4	µg/L	U
	Indeno[1,2,3-cd]pyrene	4	µg/L	U
	Dibenzo[a,h]anthracene	4	µg/L	U
	Benzo[g,h,i]perylene	4	µg/L	U
C9-C18 Aliphatic Hydrocarbons[1]		100	µg/L	U
C19-C36 Aliphatic Hydrocarbons[1]		100	µg/L	U
C11-C22 Aromatic Hydrocarbons[1,2]		100	µg/L	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				62
Aromatic Surrogate % Recovery (O-Terphenyl)				84
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				86
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				79
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

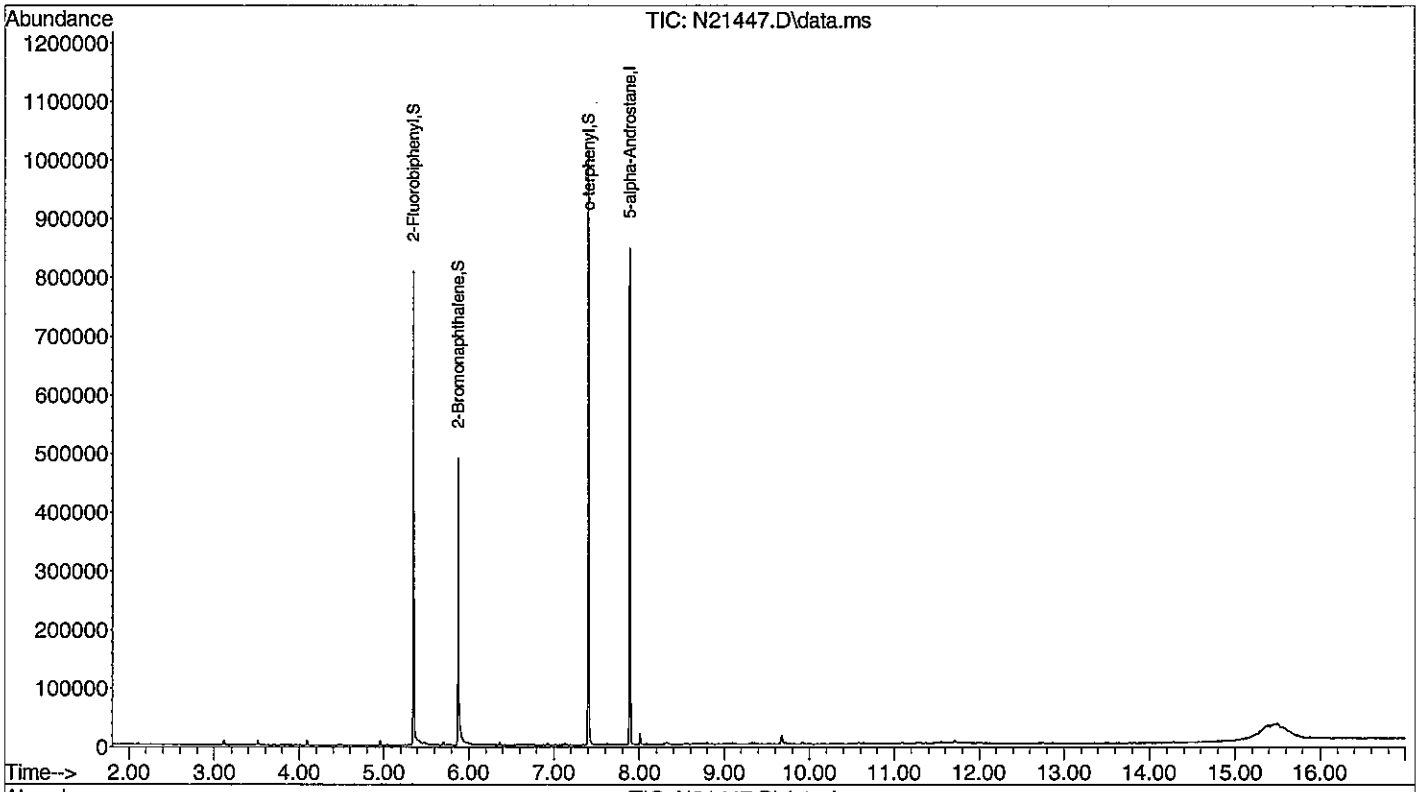
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

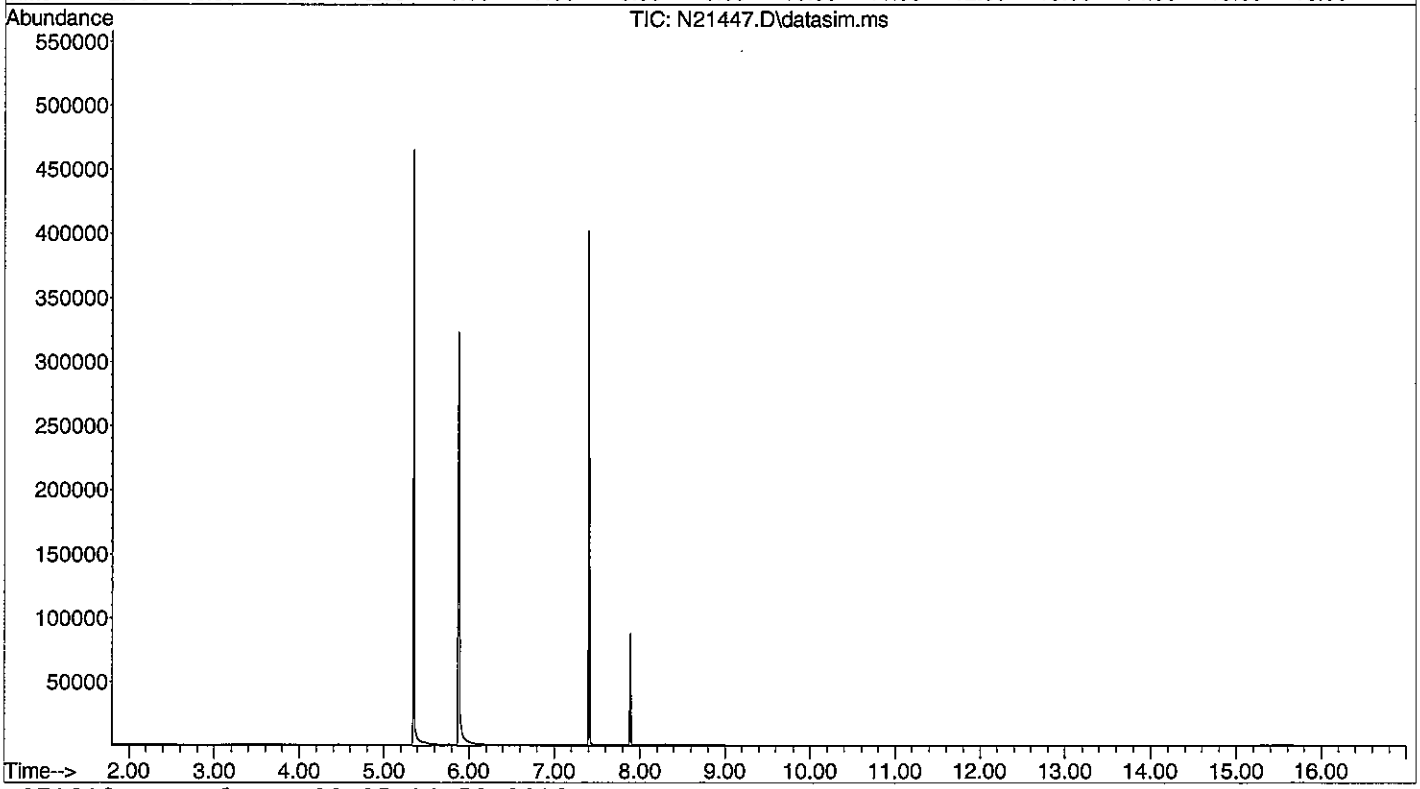
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

SIGNATURE: Angelina Richard

Data Path : C:\msdchem\1\DATA\080712-N\
Data File : N21447.D
Acq On : 7 Aug 2012 7:26 pm
Operator : AR
Sample : 73485-15
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 05:14:58 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:14 2012
Response via : Initial Calibration

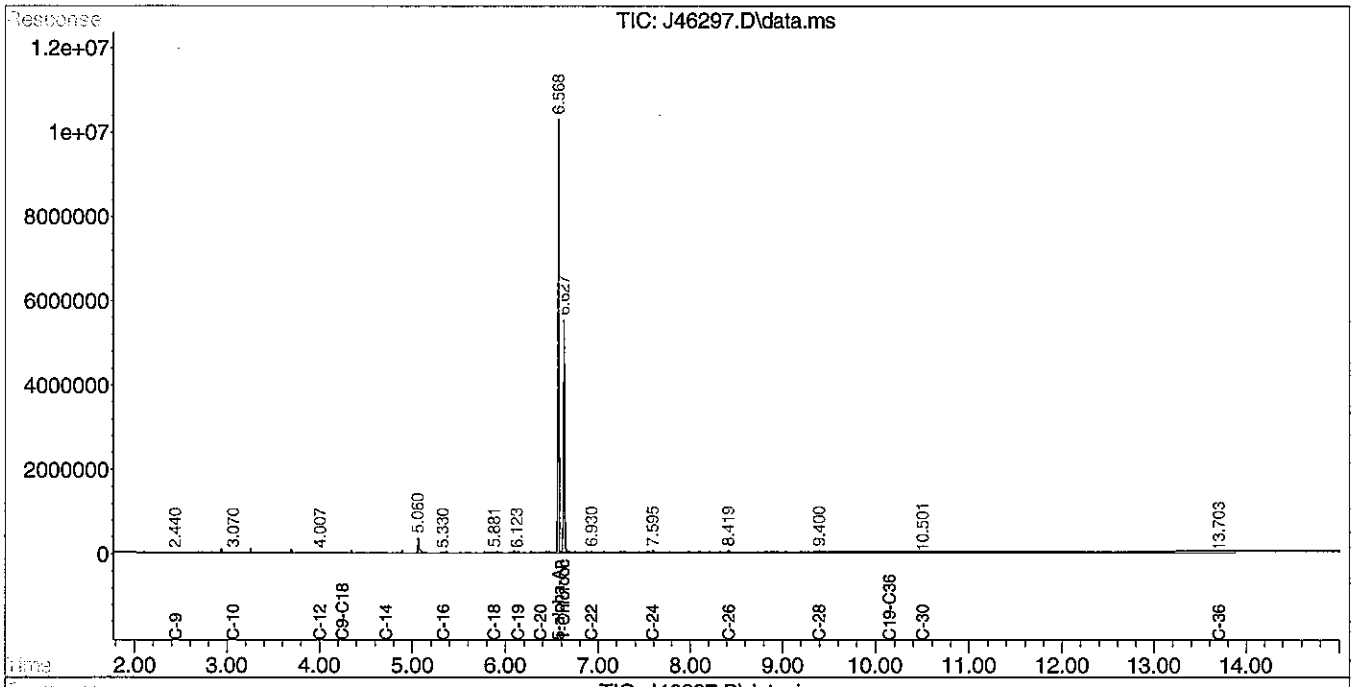


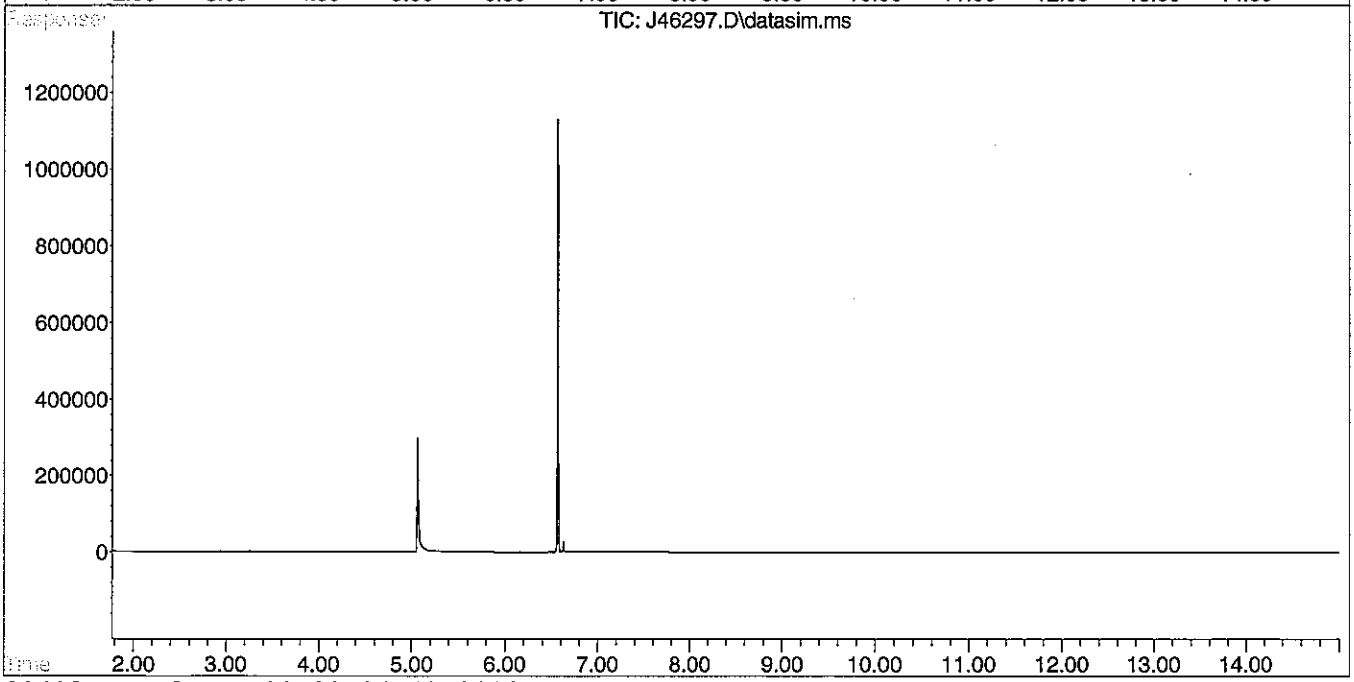


Data Path : C:\msdchem\1\DATA\080712-J\
Data File : J46297.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 8:30 pm
Operator : AR
Sample : 73485-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 00:04:42 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: BK-1

SAMPLE DATA

Lab Sample ID: 73485-18
Matrix: Solid
Percent Solid: 90
Dilution Factor: 1.1
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		14600	µg/kg	**58400**
Diesel PAH Analytes	Naphthalene	292	µg/kg	U
	2-Methylnaphthalene	292	µg/kg	U
	Phenanthrene	292	µg/kg	**434**
	Acenaphthene	292	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	292	µg/kg	U
	Fluorene	292	µg/kg	U
	Anthracene	292	µg/kg	**414**
	Fluoranthene	292	µg/kg	**1820**
	Pyrene	292	µg/kg	**1820**
	Benzo[a]anthracene	292	µg/kg	**1430**
	Chrysene	292	µg/kg	**1910**
	Benzo[b]fluoranthene	292	µg/kg	**2480**
	Benzo[k]fluoranthene	292	µg/kg	**803**
	Benzo[a]pyrene	292	µg/kg	**1410**
	Indeno[1,2,3-cd]pyrene	292	µg/kg	**1210**
	Dibenzo[a,h]anthracene	292	µg/kg	**314**
	Benzo[g,h,i]perylene	292	µg/kg	**1010**
C9-C18 Aliphatic Hydrocarbons[1]		14600	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		14600	µg/kg	**39800**
C11-C22 Aromatic Hydrocarbons[1,2]		14600	µg/kg	**43400**
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				86
Aromatic Surrogate % Recovery (O-Terphenyl)				83
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				83
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				79
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

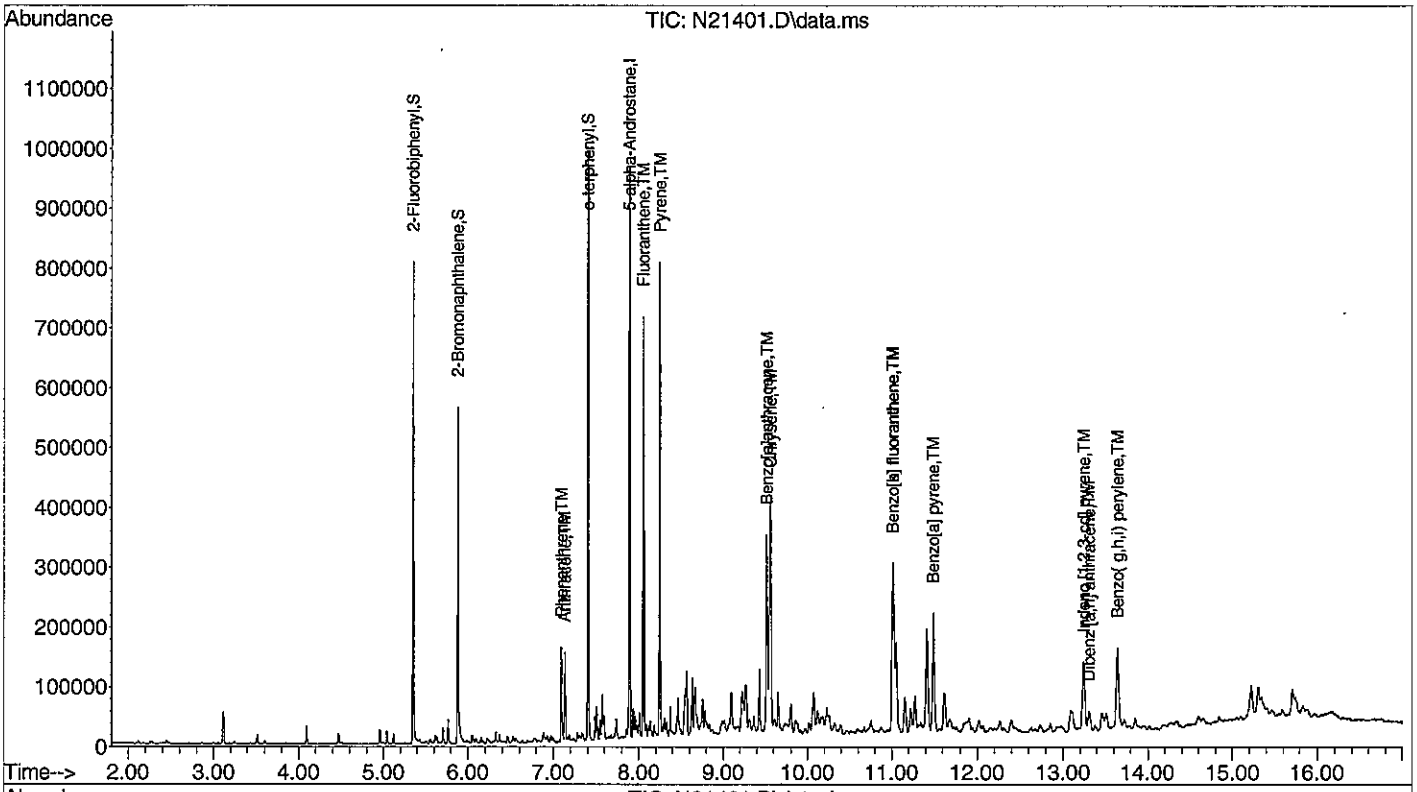
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

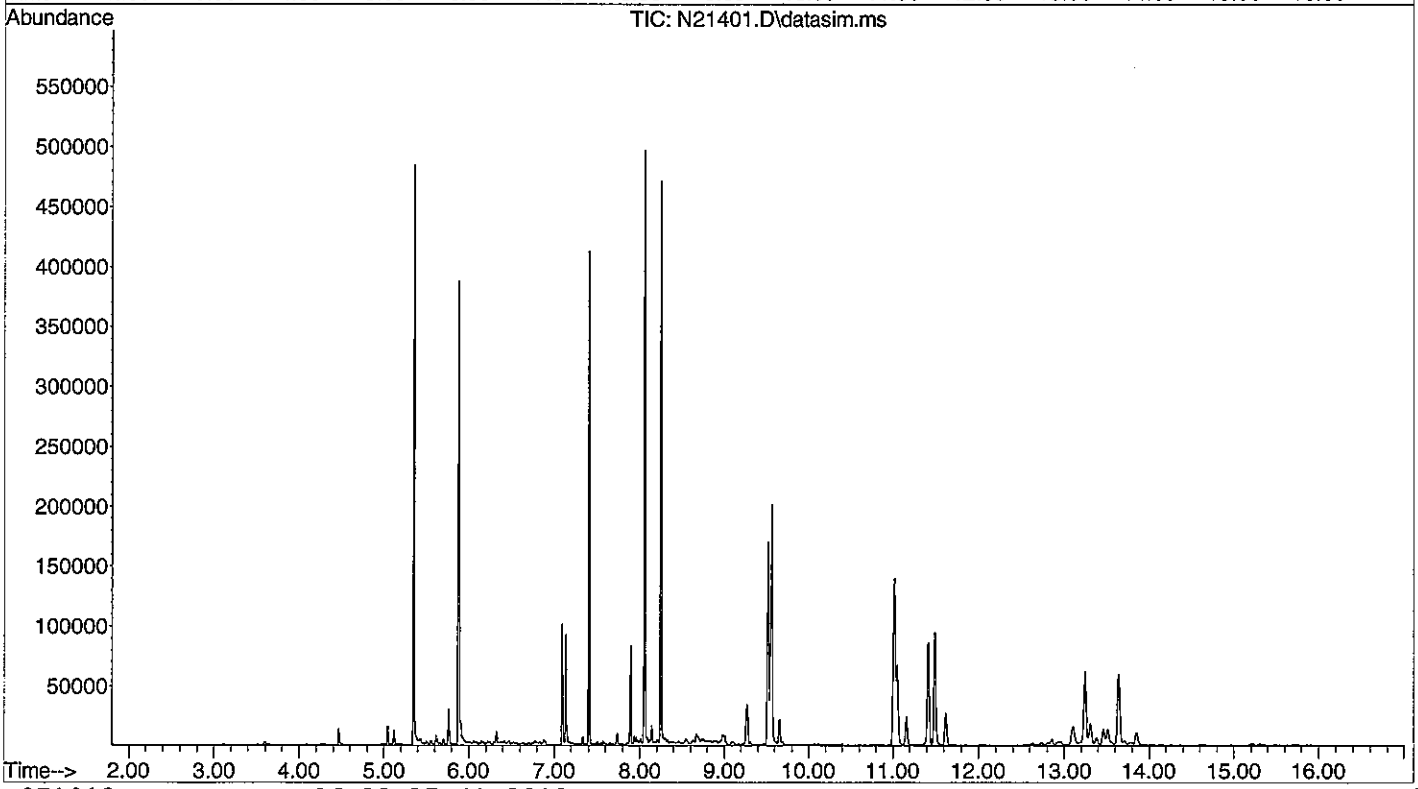
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a dry weight basis.

SIGNATURE: _____

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21401.D
Acq On : 6 Aug 2012 9:35 pm
Operator : AR
Sample : 73485-18
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 06 22:37:41 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

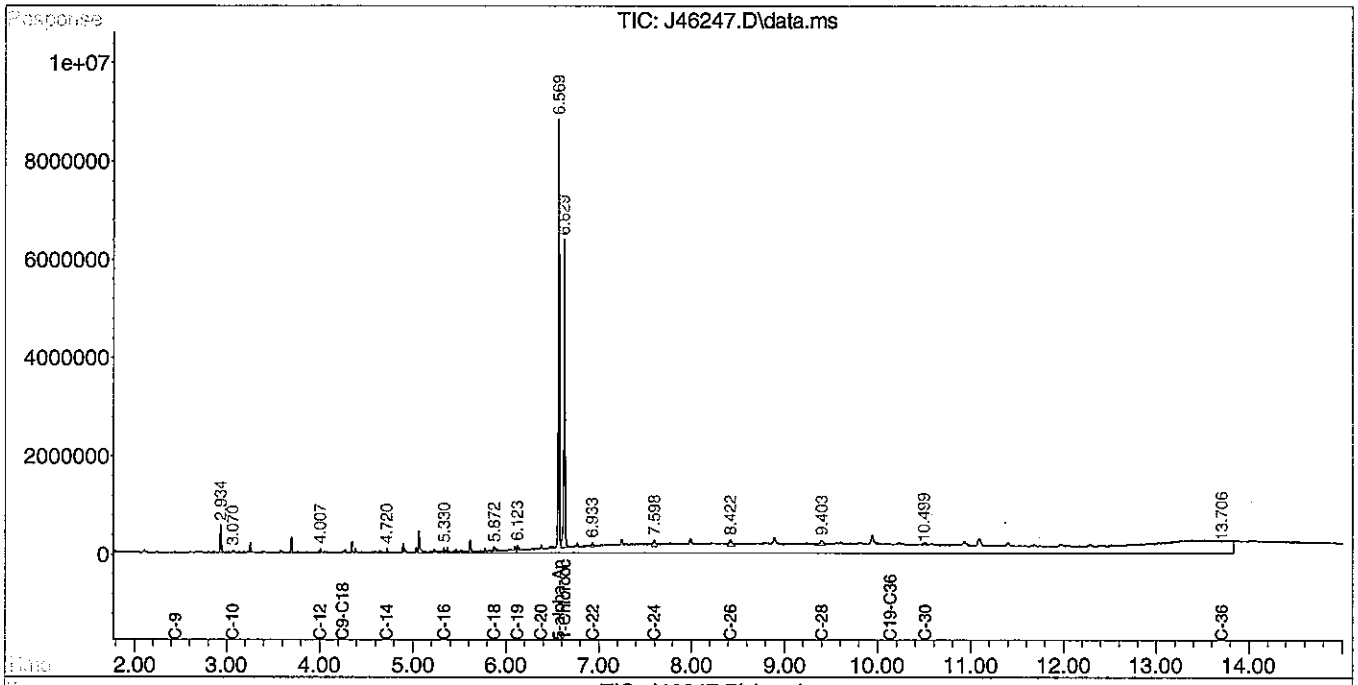


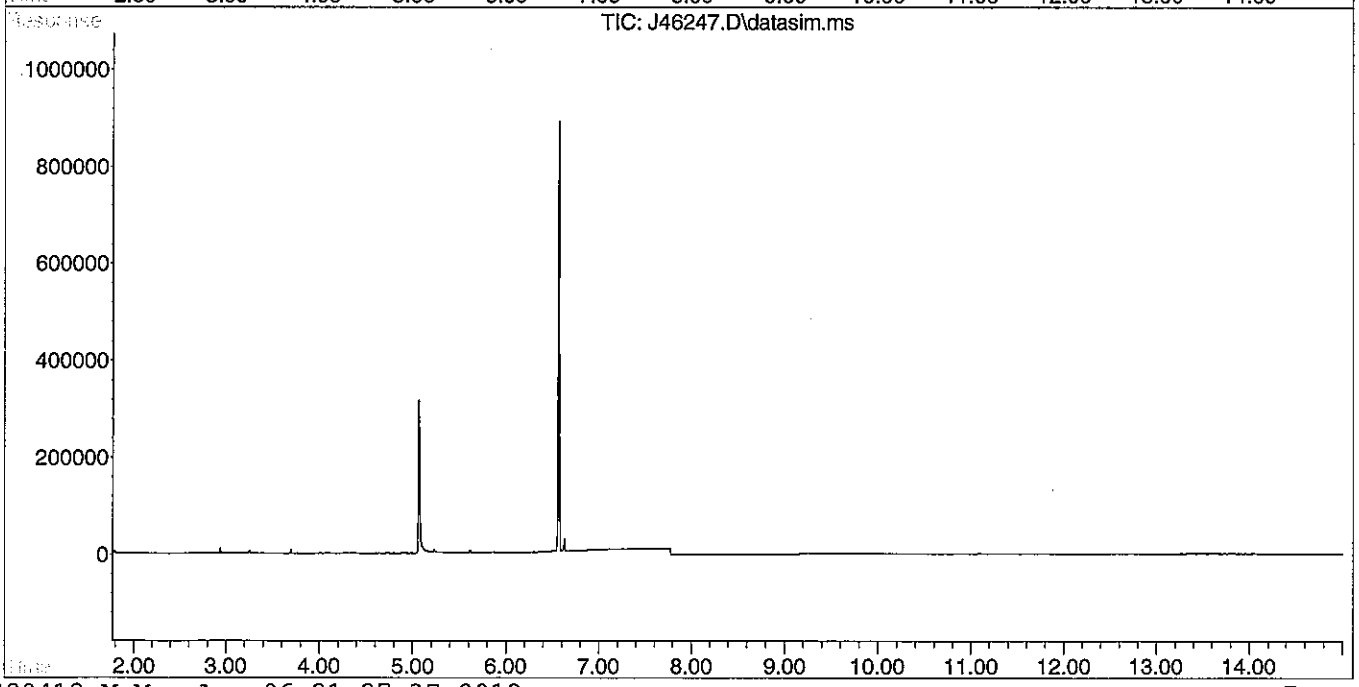


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46247.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 8:52 pm
Operator : AR
Sample : 73485-18
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 21:27:27 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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EPH
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:EPHQC.doc

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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: LabQC

SAMPLE DATA

Lab Sample ID: B080612EASE
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/06/12
Analysis Date: 08/06/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		13300	µg/kg	U
Diesel PAH Analytes	Naphthalene	267	µg/kg	U
	2-Methylnaphthalene	267	µg/kg	U
	Phenanthrene	267	µg/kg	U
	Acenaphthene	267	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	267	µg/kg	U
	Fluorene	267	µg/kg	U
	Anthracene	267	µg/kg	U
	Fluoranthene	267	µg/kg	U
	Pyrene	267	µg/kg	U
	Benzo[a]anthracene	267	µg/kg	U
	Chrysene	267	µg/kg	U
	Benzo[b]fluoranthene	267	µg/kg	U
	Benzo[k]fluoranthene	267	µg/kg	U
	Benzo[a]pyrene	267	µg/kg	U
	Indeno[1,2,3-cd]pyrene	267	µg/kg	U
	Dibenzo[a,h]anthracene	267	µg/kg	U
	Benzo[g,h,i]perylene	267	µg/kg	U
C9-C18 Aliphatic Hydrocarbons[1]		13300	µg/kg	U
C19-C36 Aliphatic Hydrocarbons[1]		13300	µg/kg	U
C11-C22 Aromatic Hydrocarbons[1,2]		13300	µg/kg	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				76
Aromatic Surrogate % Recovery (O-Terphenyl)				80
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				82
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				81
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

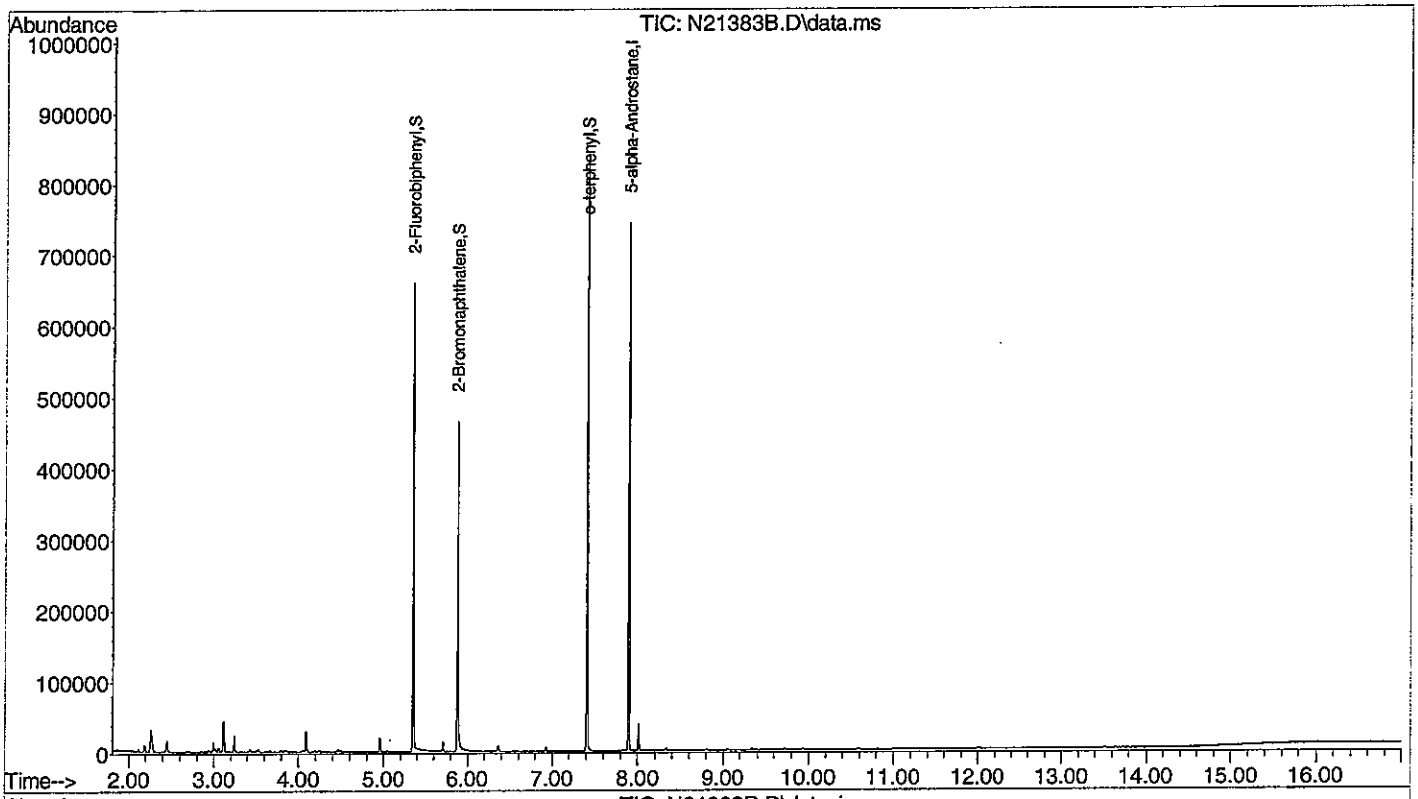
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

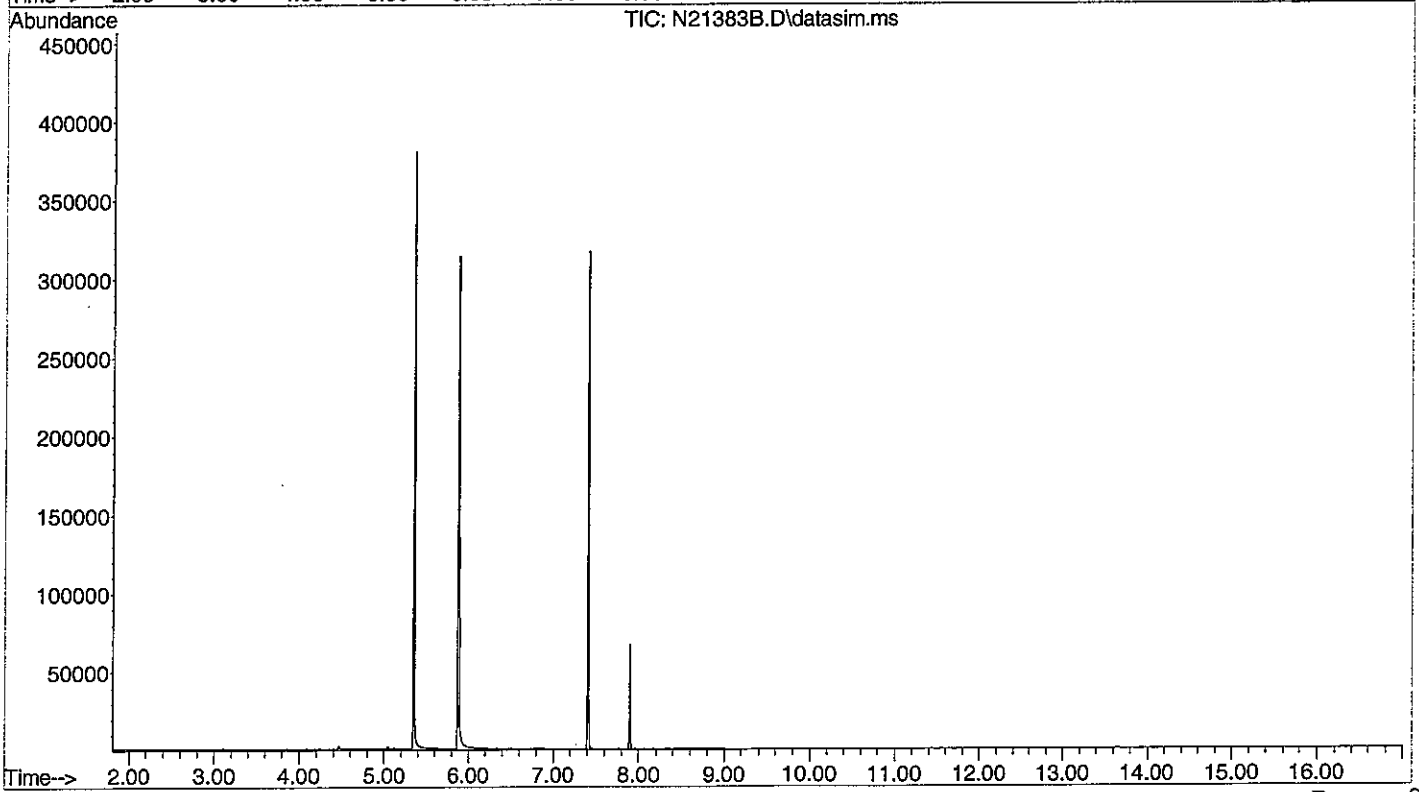
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080612-N\
Data File : N21383B.D
Acq On : 6 Aug 2012 3:25 pm
Operator : AR
Sample : B080612EASE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 17:36:12 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

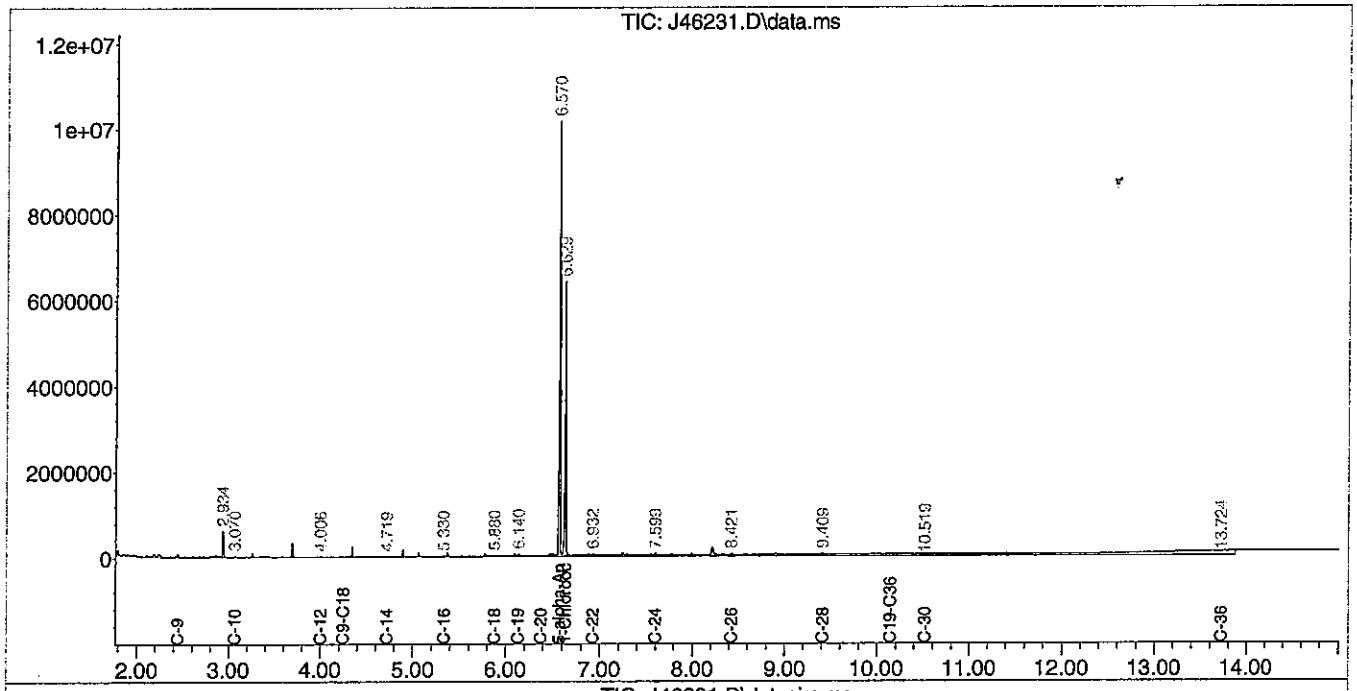


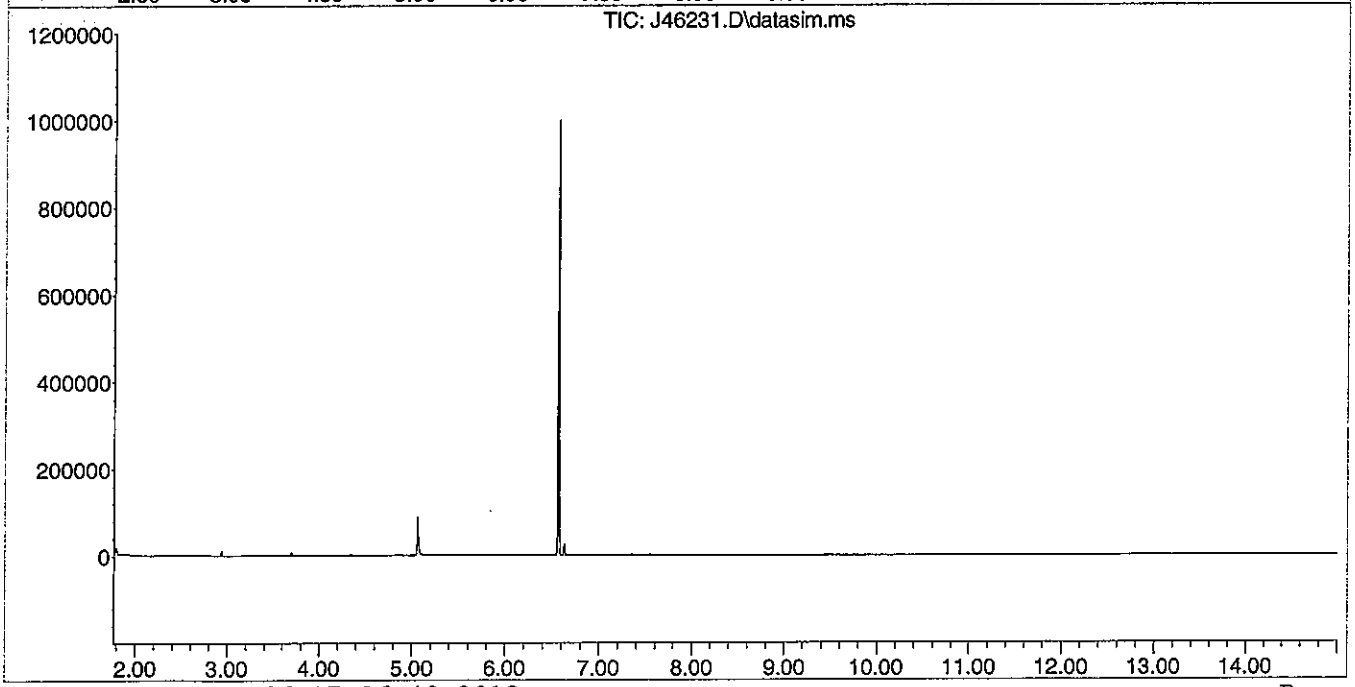


Data Path : C:\msdchem\1\DATA\080612-J\
Data File : J46231.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 6 Aug 2012 3:23 pm
Operator : AR
Sample : B080612EASE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 17:26:40 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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August 8, 2012

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134
Client Sample ID: LabQC

SAMPLE DATA

Lab Sample ID: B080612EW
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/06/12
Analysis Date: 08/07/12

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics[1]		100	µg/L	U
Diesel PAH Analytes	Naphthalene	4	µg/L	U
	2-Methylnaphthalene	4	µg/L	U
	Phenanthrene	4	µg/L	U
	Acenaphthene	4	µg/L	U
Other Target PAH Analytes	Acenaphthylene	4	µg/L	U
	Fluorene	4	µg/L	U
	Anthracene	4	µg/L	U
	Fluoranthene	4	µg/L	U
	Pyrene	4	µg/L	U
	Benzo[a]anthracene	4	µg/L	U
	Chrysene	4	µg/L	U
	Benzo[b]fluoranthene	4	µg/L	U
	Benzo[k]fluoranthene	4	µg/L	U
	Benzo[a]pyrene	4	µg/L	U
	Indeno[1,2,3-cd]pyrene	4	µg/L	U
	Dibenzo[a,h]anthracene	4	µg/L	U
	Benzo[g,h,i]perylene	4	µg/L	U
C9-C18 Aliphatic Hydrocarbons[1]		100	µg/L	U
C19-C36 Aliphatic Hydrocarbons[1]		100	µg/L	U
C11-C22 Aromatic Hydrocarbons[1,2]		100	µg/L	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				79
Aromatic Surrogate % Recovery (O-Terphenyl)				89
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				93
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				85
Fractionation Surrogate Acceptance Range		--	--	40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

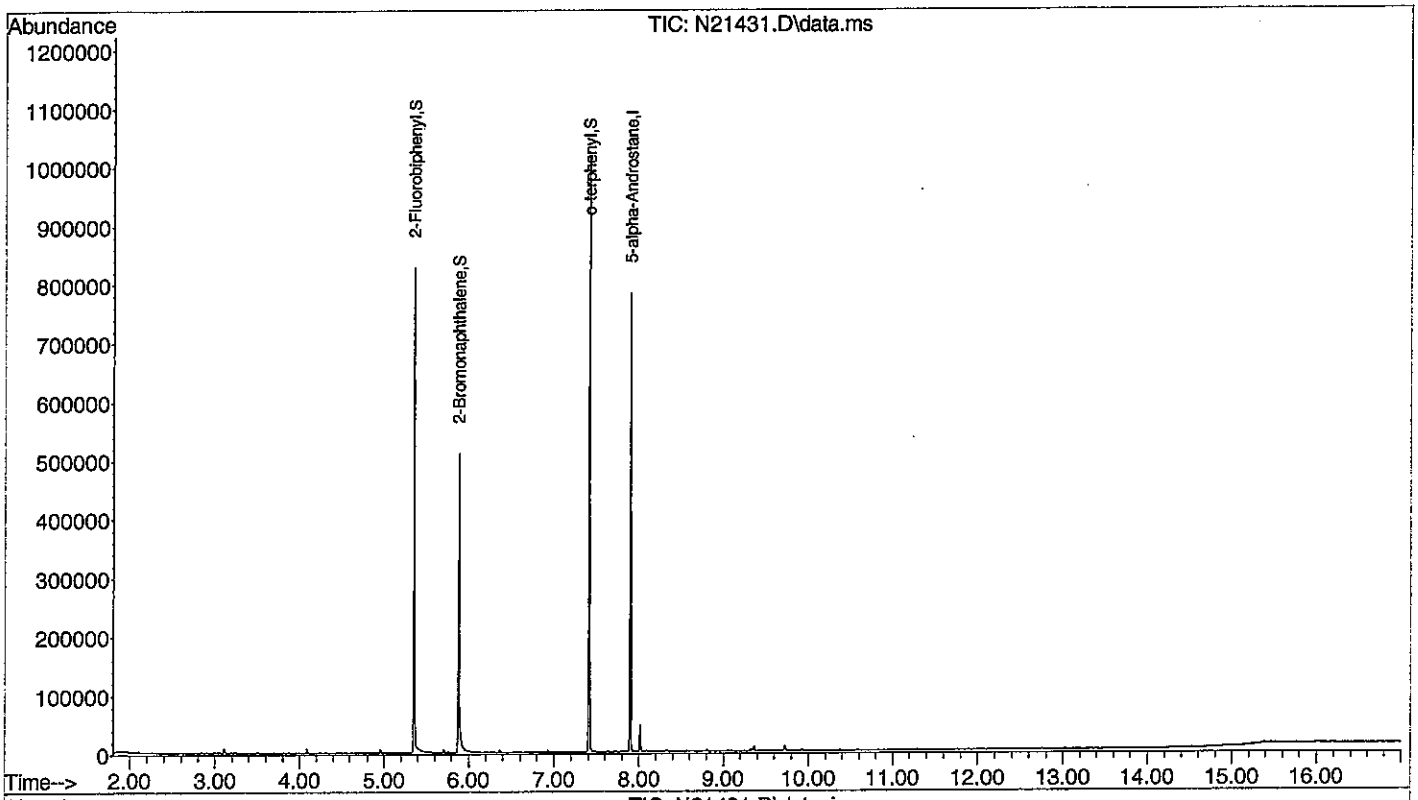
METHODOLOGY: MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

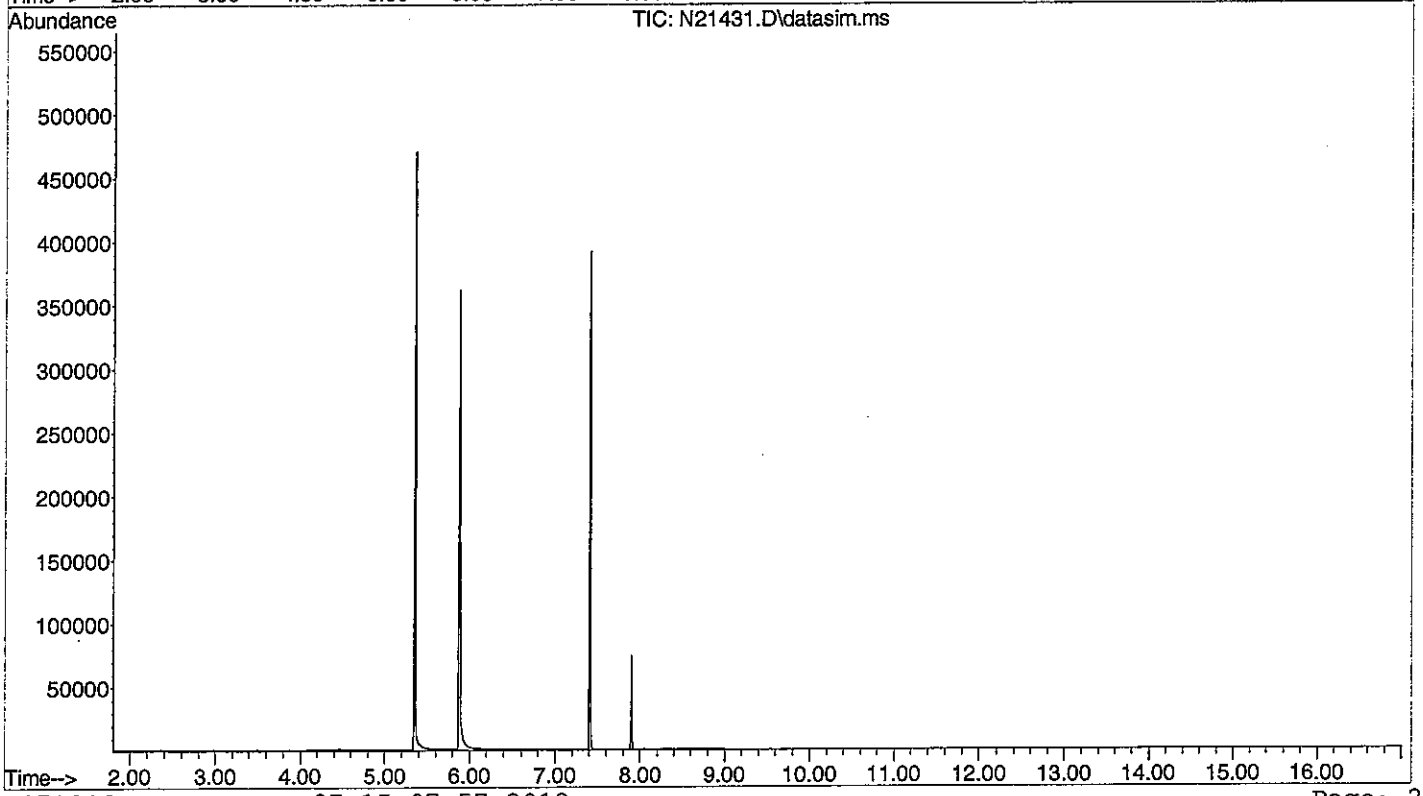
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

SIGNATURE: Angelina Richard

Data Path : C:\msdchem\1\DATA\080712-N\
Data File : N21431.D
Acq On : 7 Aug 2012 1:56 pm
Operator : AR
Sample : B080612EW
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 07 15:07:57 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration

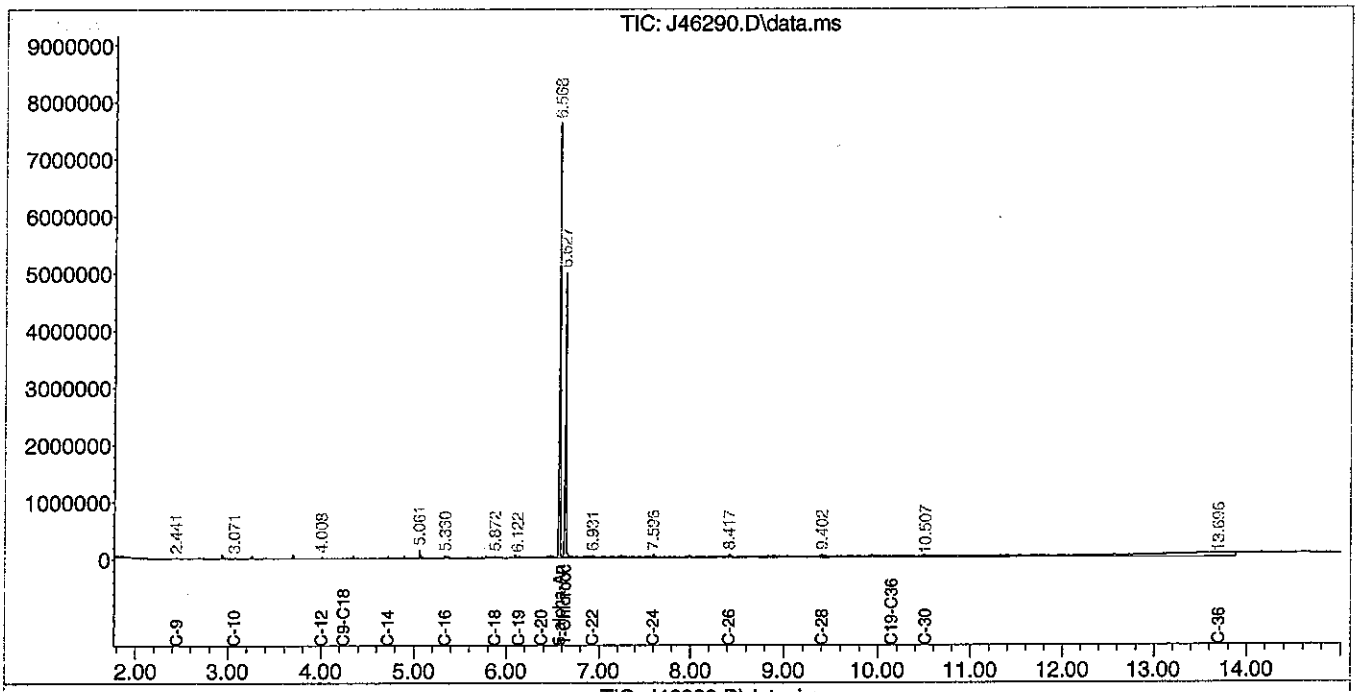


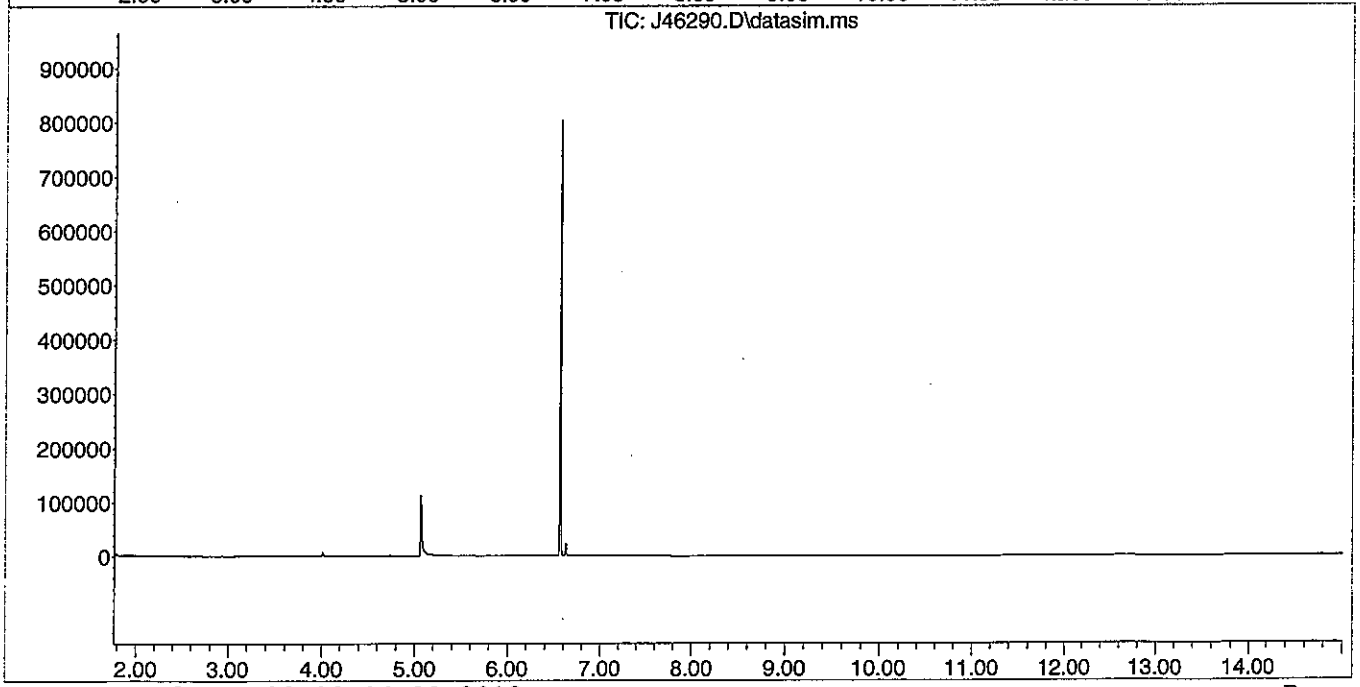


Data Path : C:\msdchem\1\DATA\080712-J\
Data File : J46290.D
Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
Acq On : 7 Aug 2012 6:05 pm
Operator : AR
Sample : B080612EW,RR
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 08 00:04:28 2012
Quant Method : C:\msdchem\1\METHODS\ALG080412.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Mon Aug 06 12:36:15 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





EPH ALIPHATICS
SOIL LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: J
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Non-spiked sample: B080612EASE
Spike: L080612EASE
Spike duplicate: LD080612EASE

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
C-9	3333	3333	30	140	25	0	1895	57		2145	64		12	
C-10	3333	3333	40	140	25	0	2146	64		2437	73		13	
C-12	3333	3333	40	140	25	0	2266	68		2502	75		10	
C-14	3333	3333	40	140	25	0	2438	73		2680	80		9	
C-16	3333	3333	40	140	25	0	2529	76		2817	85		11	
C-18	3333	3333	40	140	25	0	2639	79		2955	89		11	
C-19	3333	3333	40	140	25	0	2699	81		3039	91		12	
C-20	3333	3333	40	140	25	0	2605	78		2914	87		11	
C-22	3333	3333	40	140	25	0	2795	84		3159	95		12	
C-24	3333	3333	40	140	25	0	2637	79		2978	89		12	
C-26	3333	3333	40	140	25	0	2501	75		2945	88		16	
C-28	3333	3333	40	140	25	0	2297	69		2570	77		11	
C-30	3333	3333	40	140	25	0	2115	63		2433	73		14	
C-36	3333	3333	40	140	25	0	1109	33	*	1391	42		23	
C9-C18 Aliphatics	20000	20000	40	140	25	0	13913	70		15535	78		11	
C19-C36 Aliphatics	26667	26667	40	140	25	0	18758	70		21427	80		13	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

EPH AROMATICS
SOIL LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Non-spiked sample: B080612EASE
Spike: L080612EASE
Spike duplicate: LD080612EASE

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
Naphthalene	3333	3333	40	140	30	0	1881	56		2482	74		28	
2-Methylnaphthalene	3333	3333	40	140	30	0	1967	59		2499	75		24	
Acenaphthylene	3333	3333	40	140	30	0	2117	63		2653	80		22	
Acenaphthene	3333	3333	40	140	30	0	2064	62		2549	76		21	
Fluorene	3333	3333	40	140	30	0	2210	66		2703	81		20	
Phenanthrene	3333	3333	40	140	30	0	2421	73		2848	85		16	
Anthracene	3333	3333	40	140	30	0	2350	71		2794	84		17	
Fluoranthene	3333	3333	40	140	30	0	2496	75		2932	88		16	
Pyrene	3333	3333	40	140	30	0	2513	75		2952	89		16	
Benzo[a]anthracene	3333	3333	40	140	30	0	2581	77		3086	93		18	
Chrysene	3333	3333	40	140	30	0	2503	75		2998	90		18	
Benzo[b] fluoranthene	3333	3333	40	140	30	0	2710	81		3140	94		15	
Benzo[k] fluoranthene	3333	3333	40	140	30	0	2749	82		3114	93		12	
Benzo[a] pyrene	3333	3333	40	140	30	0	2773	83		3198	96		14	
Indeno [1,2,3-cd] pyrene	3333	3333	40	140	30	0	3006	90		3423	103		13	
Dibenz [a,h] anthracene	3333	3333	40	140	30	0	2983	89		3424	103		14	
Benzo(g,h,i) perylene	3333	3333	40	140	30	0	2906	87		3307	99		13	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

EPH AROMATIC BREAKTHOUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Aliphatic LCS: L080612EASE,ALI
Aromatic LCS: L080612EASE

COMPOUND	LOWER LIMIT	UPPER LIMIT	ALIPHATIC RESULT (ug/mL)	AROMATIC RESULT (ug/mL)	% BREAKTHROUGH	#
Naphthalene	0	5	0.00	14.1	0.0	
2-Methylnaphthalene	0	5	0.00	14.8	0.0	

Column to be used to flag breakthrough values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH AROMATIC BREAKTHOUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Aliphatic LCS: LD080612EASE,ALI
Aromatic LCS: LD080612EASE

COMPOUND	LOWER LIMIT	UPPER LIMIT	ALIPHATIC RESULT (ug/mL)	AROMATIC RESULT (ug/mL)	% BREAKTHROUGH	#
Naphthalene	0	5	0.00	18.6	0.0	
2-Methylnaphthalene	0	5	0.00	18.7	0.0	

Column to be used to flag breakthrough values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH ALIPHATICS
AQUEOUS LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: J
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Non-spiked sample: B080612EW,RR
Spike: L080612EW
Spike duplicate: LD080612EW

COMPOUND	SPIKE ADDED	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
C-9	25	30	140	25	0.0	17	67		15	62		8	
C-10	25	40	140	25	0.0	19	78		18	72		8	
C-12	25	40	140	25	0.0	21	84		19	78		8	
C-14	25	40	140	25	0.0	22	88		20	81		8	
C-16	25	40	140	25	0.0	22	90		21	84		7	
C-18	25	40	140	25	0.0	24	94		22	87		8	
C-19	25	40	140	25	0.0	24	96		22	88		9	
C-20	25	40	140	25	0.0	25	101		23	92		9	
C-22	25	40	140	25	0.0	24	96		22	89		8	
C-24	25	40	140	25	0.0	24	98		22	89		9	
C-26	25	40	140	25	0.0	24	97		22	88		9	
C-28	25	40	140	25	0.0	23	92		21	83		10	
C-30	25	40	140	25	0.0	22	87		20	79		10	
C-36	25	40	140	25	0.0	11	44		10	41		6	
C9-C18 Aliphatics	150	40	140	25	0	125	83		116	77		8	
C19-C36 Aliphatics	200	40	140	25	0	178	89		163	81		9	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH AROMATICS
AQUEOUS LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Non-spiked sample: B080612EW
Spike: L080612EW
Spike duplicate: LD080612EW

COMPOUND	SPIKE ADDED	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
Naphthalene	25	40	140	20	0.0	18	70		21	84		18	
2-Methylnaphthalene	25	40	140	20	0.0	19	76		22	90		17	
Acenaphthylene	25	40	140	20	0.0	20	79		23	91		15	
Acenaphthene	25	40	140	20	0.0	20	80		22	88		11	
Fluorene	25	40	140	20	0.0	21	83		23	93		12	
Phenanthrene	25	40	140	20	0.0	22	89		24	95		7	
Anthracene	25	40	140	20	0.0	22	89		23	93		4	
Fluoranthene	25	40	140	20	0.0	22	90		24	94		5	
Pyrene	25	40	140	20	0.0	22	90		23	92		3	
Benzo[a]anthracene	25	40	140	20	0.0	24	95		23	94		1	
Chrysene	25	40	140	20	0.0	22	88		21	86		3	
Benzo[b] fluoranthene	25	40	140	20	0.0	25	100		24	97		3	
Benzo[k] fluoranthene	25	40	140	20	0.0	24	95		22	88		7	
Benzo[a] pyrene	25	40	140	20	0.0	25	100		23	94		6	
Indeno [1,2,3-cd] pyrene	25	40	140	20	0.0	29	116		27	108		7	
Dibenz [a,h] anthracene	25	40	140	20	0.0	28	113		26	102		10	
Benzo(g,h,i) perylene	25	40	140	20	0.0	27	108		25	100		8	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH AROMATIC BREAKTHOUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Aliphatic LCS: L080612EW
Aromatic LCS: L080612EW

COMPOUND	LOWER LIMIT	UPPER LIMIT	ALIPHATIC RESULT (ug/mL)	AROMATIC RESULT (ug/mL)	% BREAKTHROUGH	#
Naphthalene	0	5	0.00	17.6	0.0	
2-Methylnaphthalene	0	5	0.00	19.0	0.0	

Column to be used to flag breakthrough values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH AROMATIC BREAKTHOUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Aliphatic LCS: LD080612EW
Aromatic LCS: LD080612EW

COMPOUND	LOWER LIMIT	UPPER LIMIT	ALIPHATIC RESULT (ug/mL)	AROMATIC RESULT (ug/mL)	% BREAKTHROUGH	#
Naphthalene	0	5	0.00	21.0	0.0	
2-Methylnaphthalene	0	5	0.00	22.4	0.0	

Column to be used to flag breakthrough values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH ALIPHATICS
AQUEOUS MATRIX SPIKE
MATRIX SPIKE DUPLICATE
PERCENT RECOVERY

Instrument ID: J
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Non-spiked sample: 73485-15
Spike: 73485-15,MS
Spike duplicate: 73485-15,MSD

COMPOUND	SPIKE ADDED	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
C-9	25	30	140	50	0.0	14	57		16	65		13	
C-10	25	40	140	50	0.0	17	68		19	77		11	
C-12	25	40	140	50	0.0	19	75		20	81		8	
C-14	25	40	140	50	0.0	20	81		22	89		9	
C-16	25	40	140	50	0.0	20	82		22	89		9	
C-18	25	40	140	50	0.0	21	84		23	92		10	
C-19	25	40	140	50	0.0	21	85		24	94		10	
C-20	25	40	140	50	0.0	22	90		25	99		10	
C-22	25	40	140	50	0.0	22	88		24	96		8	
C-24	25	40	140	50	0.0	22	86		24	96		11	
C-26	25	40	140	50	0.0	21	83		24	95		14	
C-28	25	40	140	50	0.0	20	78		22	89		13	
C-30	25	40	140	50	0.0	18	73		22	89		19	
C-36	25	40	140	50	0.0	10	40		11	43		7	
C9-C18 Aliphatics	150	40	140	50	0	112	74		123	82		10	
C19-C36 Aliphatics	200	40	140	50	0	156	78		175	88		12	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH AROMATICS
AQUEOUS MATRIX SPIKE
MATRIX SPIKE DUPLICATE
PERCENT RECOVERY

Instrument ID: N
GC Column: RTX-5ms
Column ID: 0.25 mm

SDG:
Non-spiked sample: 73485-15
Spike: 73485-15,MS
Spike duplicate: 73485-15,MSD

COMPOUND	SPIKE ADDED	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
Naphthalene	25	40	140	50	0.0	17	67		22	87		26	
2-Methylnaphthalene	25	40	140	50	0.0	18	71		23	90		24	
Acenaphthylene	25	40	140	50	0.0	19	77		24	96		21	
Acenaphthene	25	40	140	50	0.0	19	76		24	94		21	
Fluorene	25	40	140	50	0.0	20	82		24	97		18	
Phenanthrene	25	40	140	50	0.0	22	87		25	100		14	
Anthracene	25	40	140	50	0.0	22	86		25	99		13	
Fluoranthene	25	40	140	50	0.0	21	86		25	99		14	
Pyrene	25	40	140	50	0.0	21	86		25	99		14	
Benzo[a]anthracene	25	40	140	50	0.0	22	90		26	103		13	
Chrysene	25	40	140	50	0.0	21	84		24	96		13	
Benzo[b] fluoranthene	25	40	140	50	0.0	24	96		27	109		12	
Benzo[k] fluoranthene	25	40	140	50	0.0	22	89		25	101		13	
Benzo[a] pyrene	25	40	140	50	0.0	24	95		27	108		12	
Indeno [1,2,3-cd] pyrene	25	40	140	50	0.0	27	110		32	126		14	
Dibenz [a,h] anthracene	25	40	140	50	0.0	27	108		30	121		12	
Benzo(g,h,i) perylene	25	40	140	50	0.0	25	100		29	116		14	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

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800-929-9906

Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: B101-S1

SAMPLE DATA

Lab Sample ID: 73485-1
Matrix: Solid
Percent Solid: 95
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	95	%
Decachlorobiphenyl	97	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

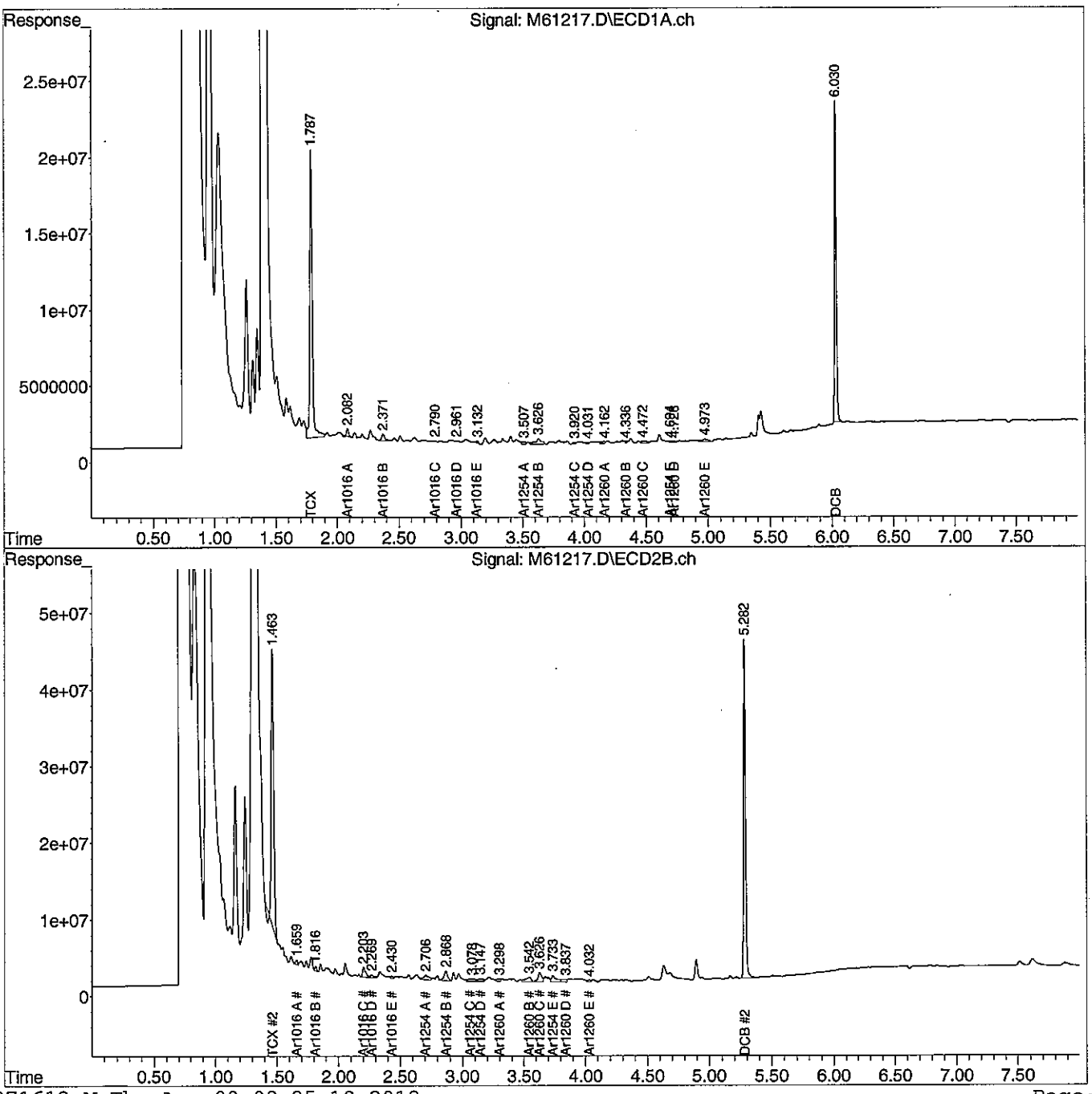
PCB Report

Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 12:50 pm
Operator : JK
Sample : 73485-1,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 08 16:24:46 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



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August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: B102-S5

SAMPLE DATA

Lab Sample ID: 73485-2
Matrix: Solid
Percent Solid: 76
Dilution Factor: 1.3
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	43	U
PCB-1221	43	U
PCB-1232	43	U
PCB-1242	43	U
PCB-1248	43	U
PCB-1254	43	U
PCB-1260	43	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	57	%
Decachlorobiphenyl	I	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
I=Unable to read surrogate results due to interference.

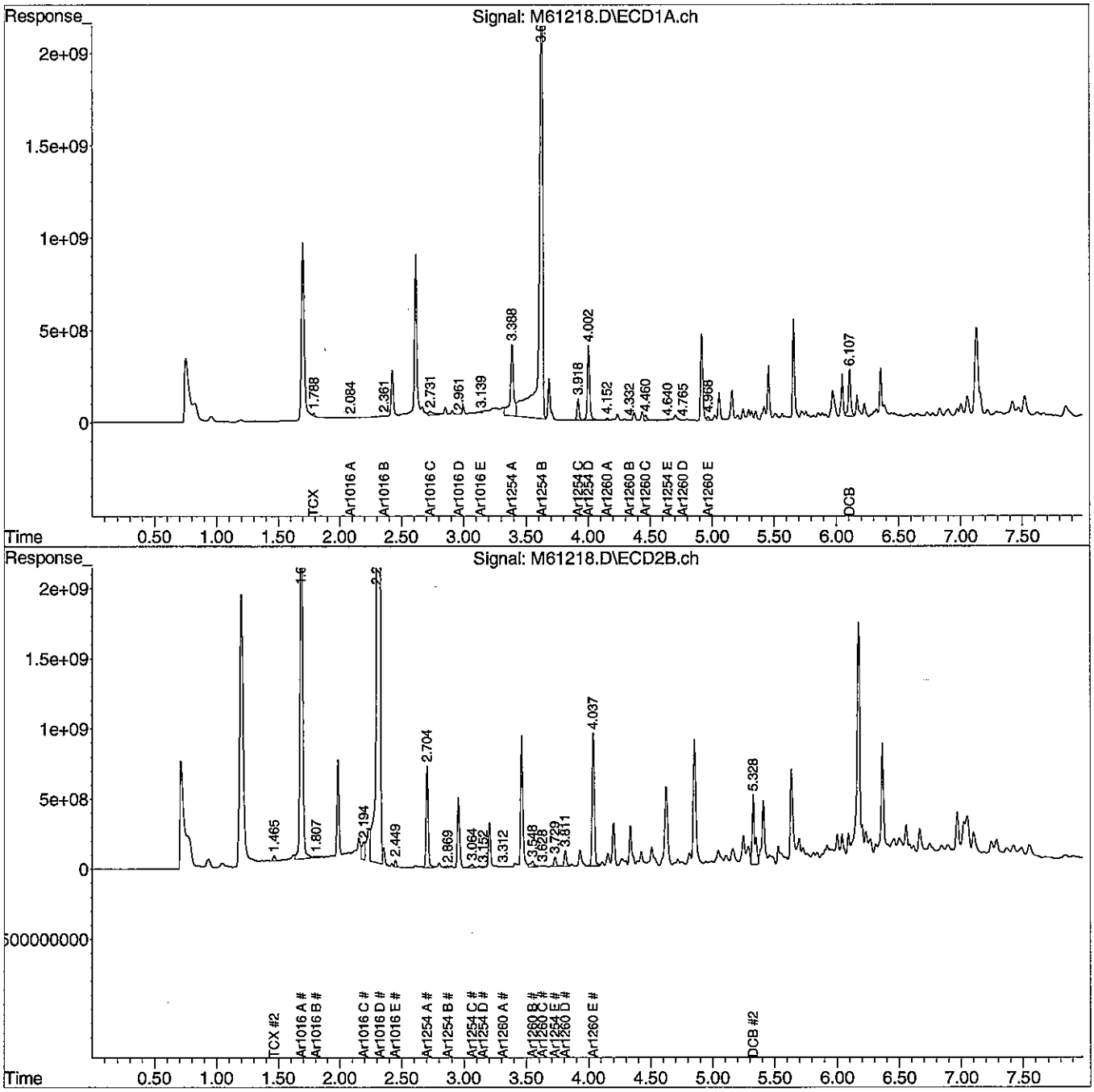
PCB Report

Authorized signature Jessica Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61218.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 1:00 pm
Operator : JK
Sample : 73485-2,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 08:27:01 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



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Mr. Peter Sherr
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Portland, ME 04101

August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS101

SAMPLE DATA

Lab Sample ID: 73485-5
Matrix: Solid
Percent Solid: 94
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	69	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A..

COMMENTS: Results are expressed on a dry weight basis.

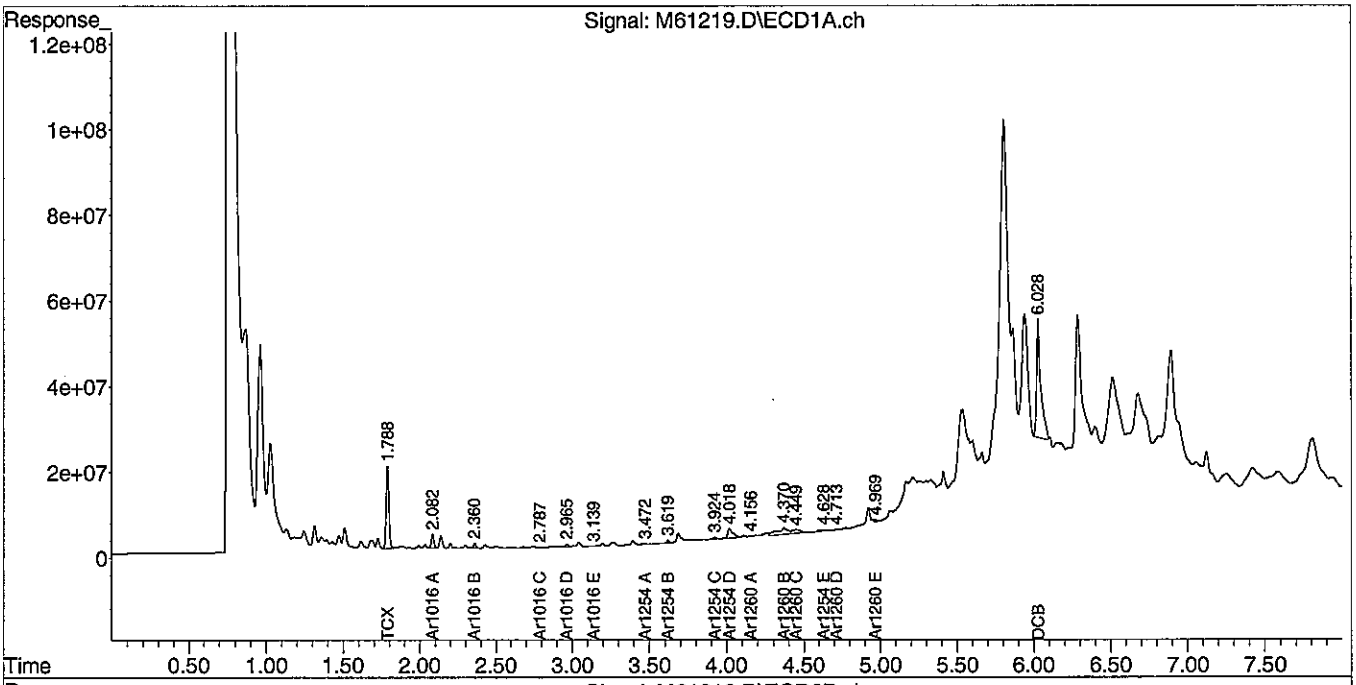
PCB Report

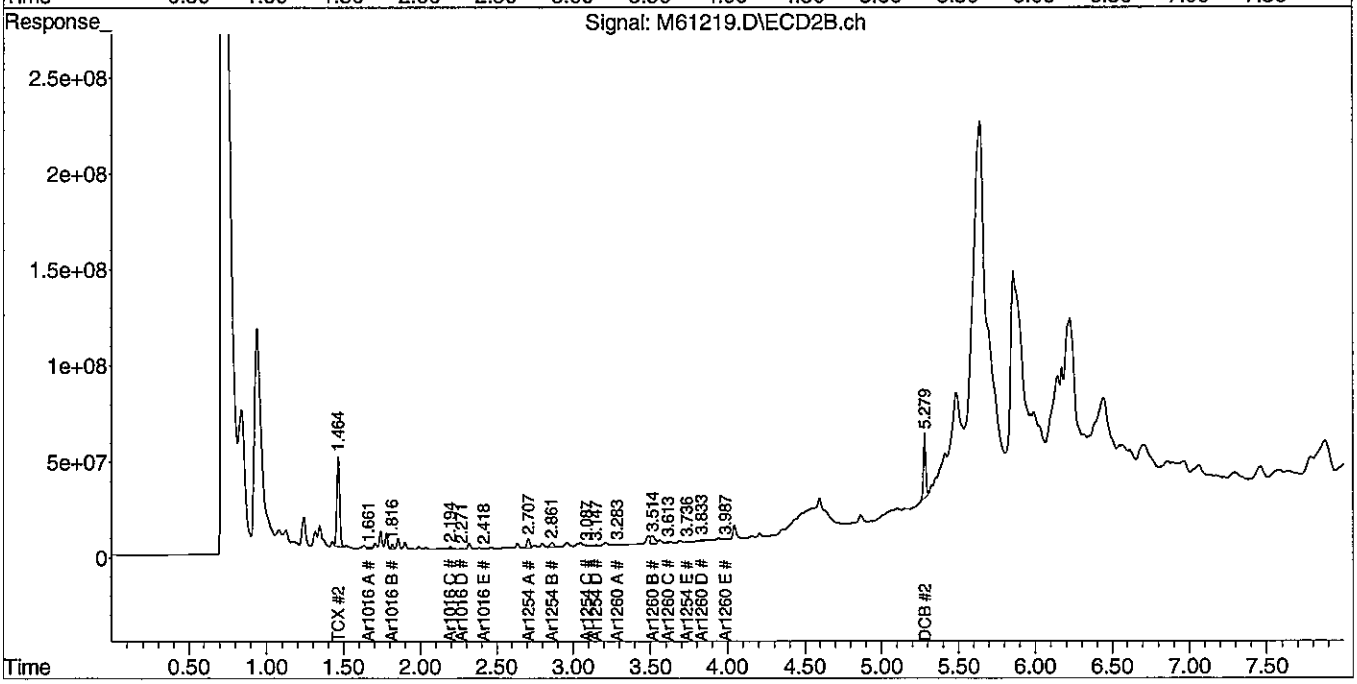
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61219.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 1:10 pm
Operator : JK
Sample : 73485-5,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 08:28:20 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Mr. Peter Sherr
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS102

SAMPLE DATA

Lab Sample ID: 73485-6
Matrix: Solid
Percent Solid: 91
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	93	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

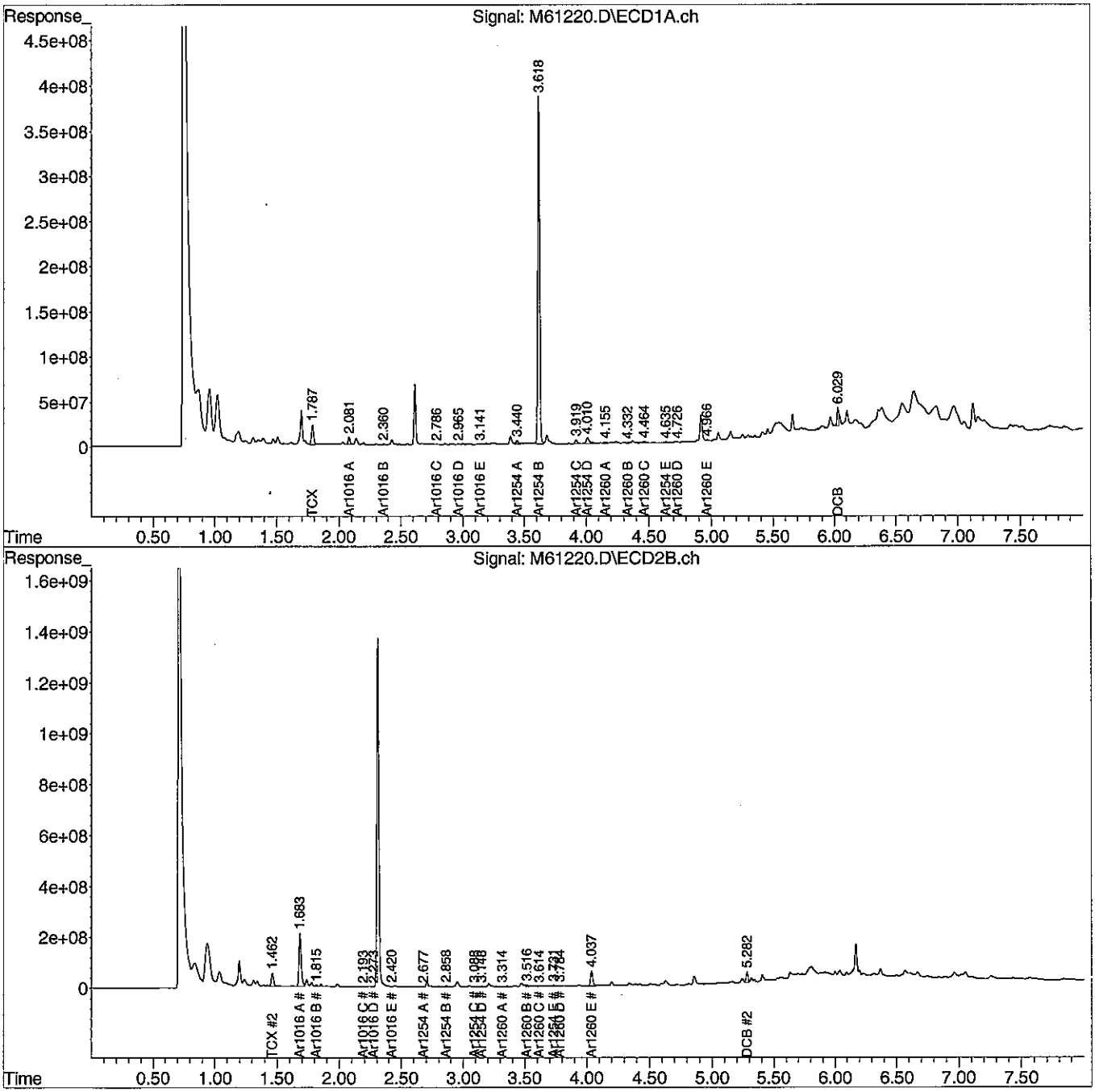
PCB Report

Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61220.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 1:20 pm
Operator : JK
Sample : 73485-6,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 08:29:53 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



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August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS103

SAMPLE DATA

Lab Sample ID: 73485-7
Matrix: Solid
Percent Solid: 95
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	74	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

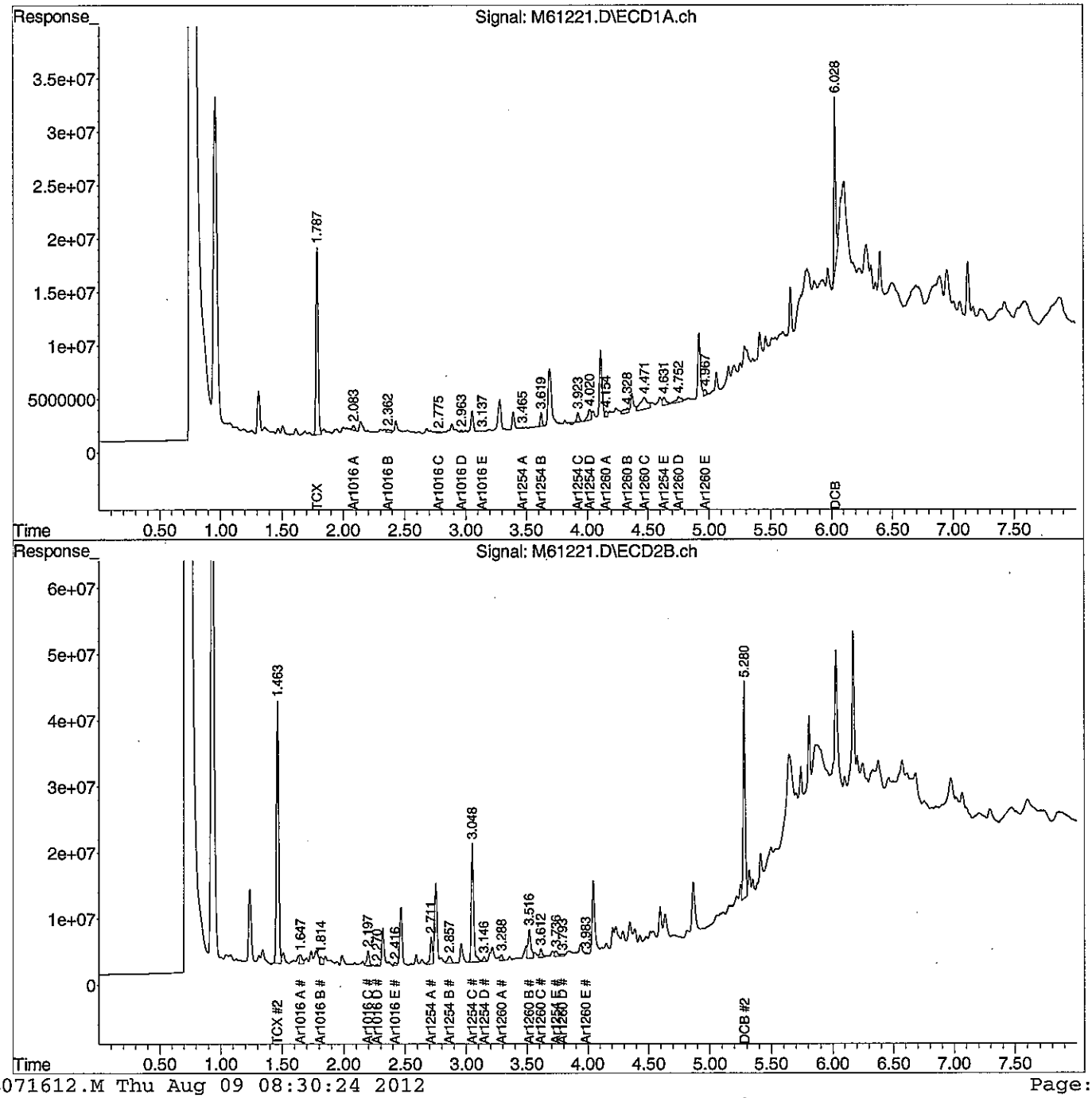
PCB Report

Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 1:30 pm
Operator : JK
Sample : 73485-7,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 08:30:15 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



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August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS104

SAMPLE DATA

Lab Sample ID: 73485-8
Matrix: Solid
Percent Solid: 94
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

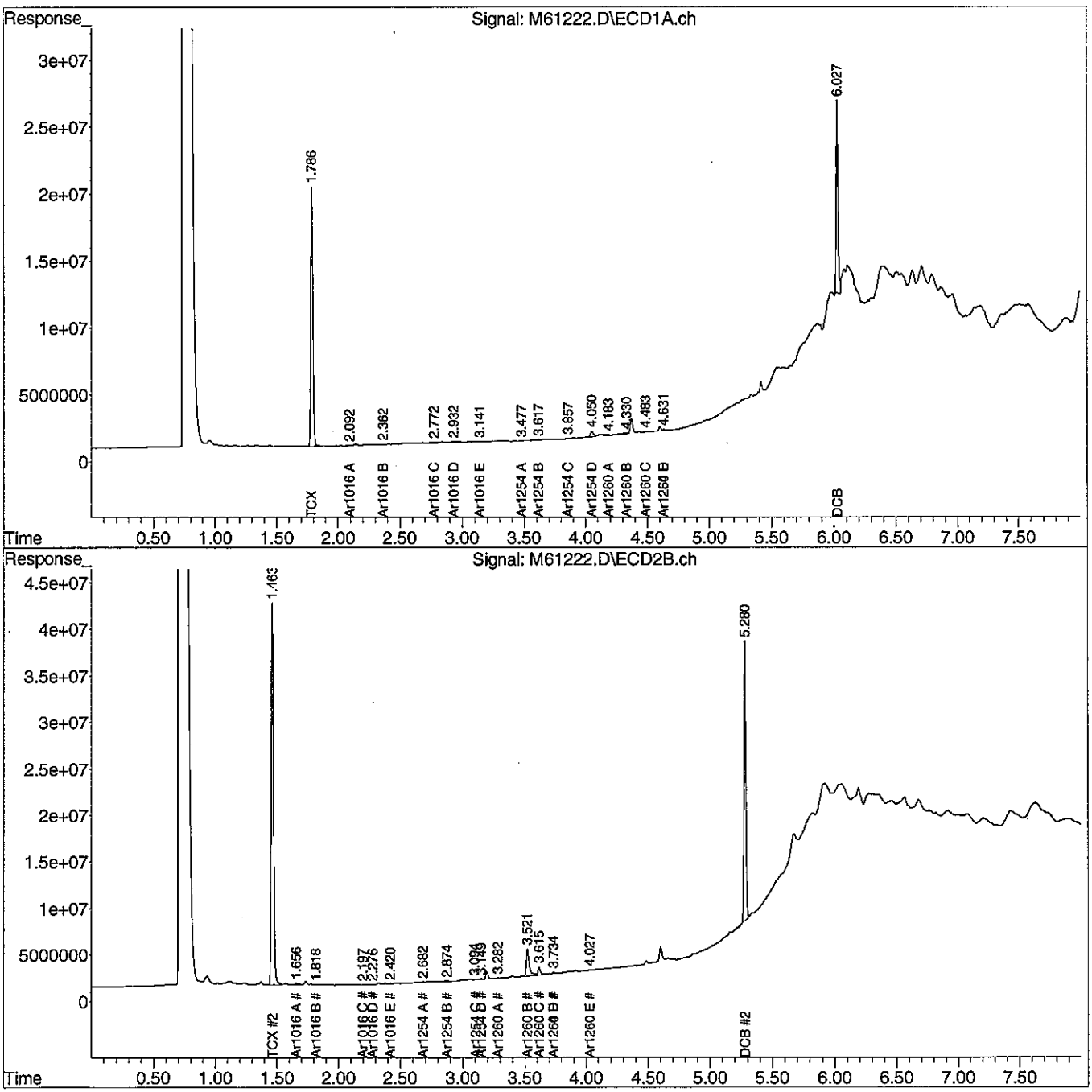
PCB Report

Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61222.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 1:40 pm
Operator : JK
Sample : 73485-8,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 08 16:24:56 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



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August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: SS10X

SAMPLE DATA

Lab Sample ID: 73485-10
Matrix: Solid
Percent Solid: 94
Dilution Factor: 1.0
Collection Date: 08/03/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	124	%
Decachlorobiphenyl	89	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

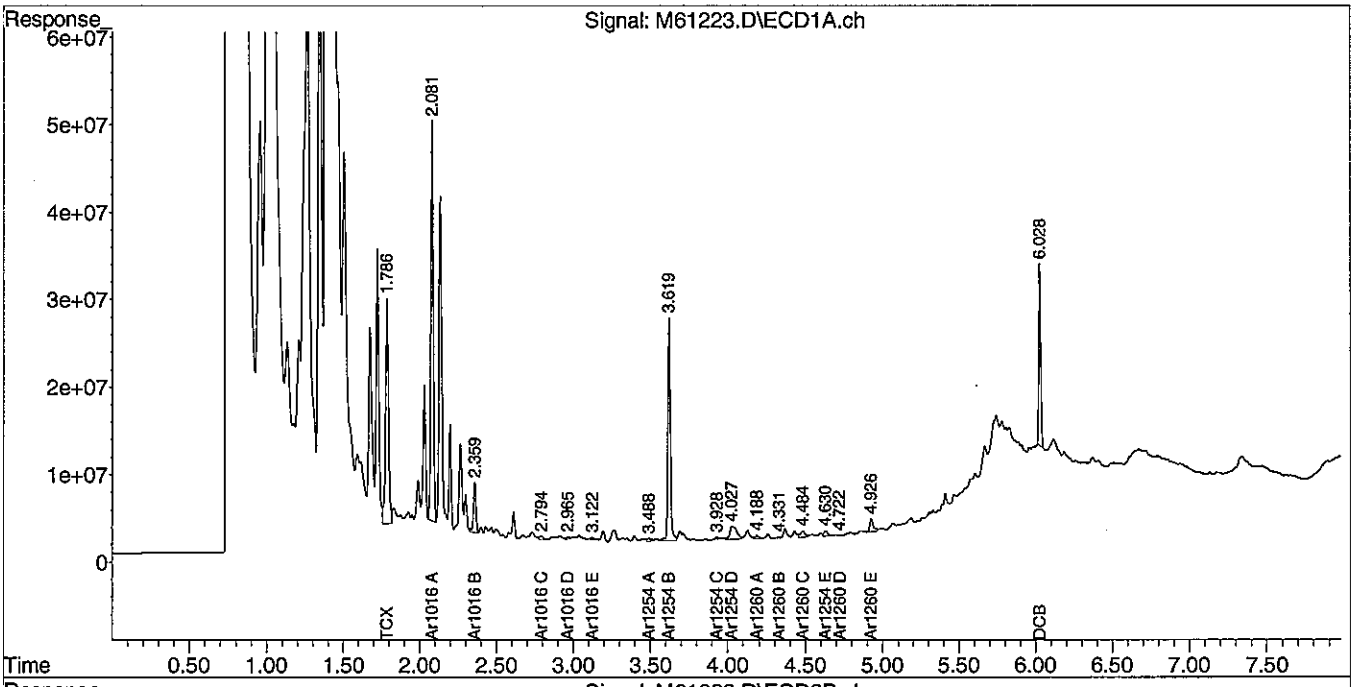
PCB Report

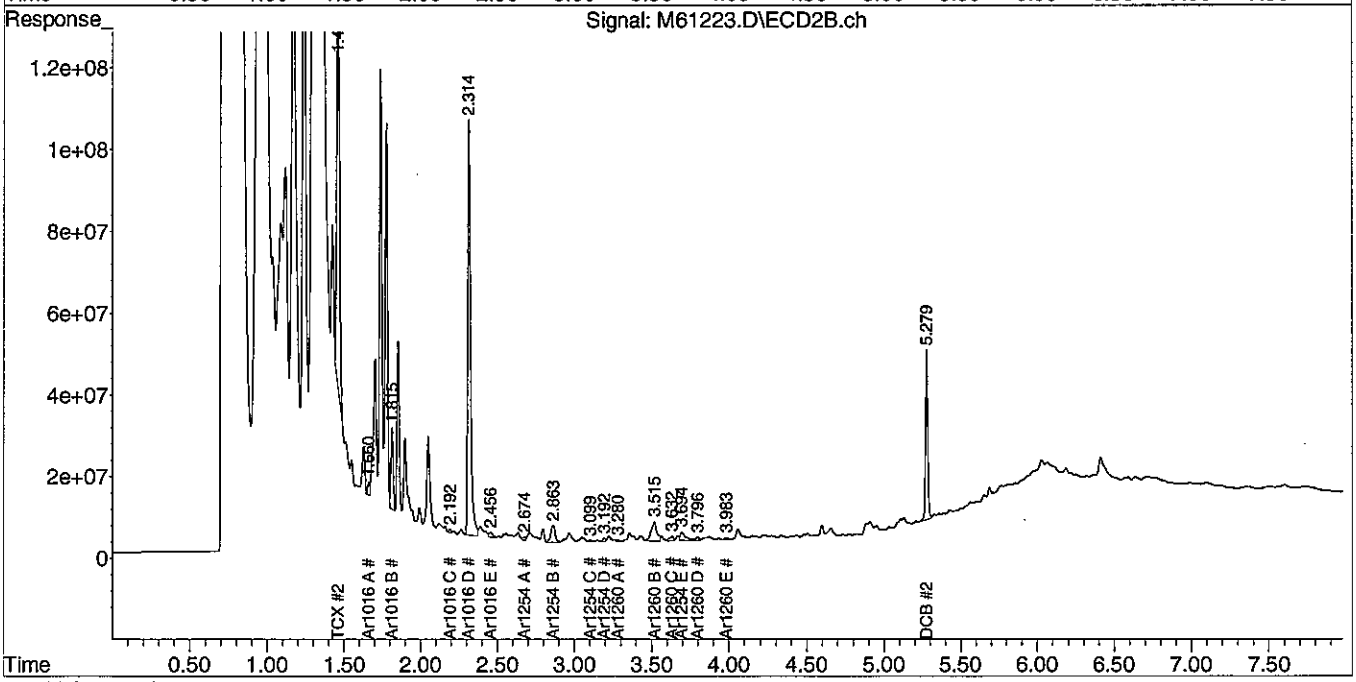
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61223.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 1:50 pm
Operator : JK
Sample : 73485-10,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 08 16:24:58 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

analytics environmental laboratory LLC

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Portland, ME 04101

August 9, 2012

CLIENT SAMPLE ID

Project Name: Belfast Boatyard-Front Street

Project Number: 111.06134

Field Sample ID: Lab QC

SAMPLE DATA

Lab Sample ID: B080612PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/06/12
Analysis Date: 08/08/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	74	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

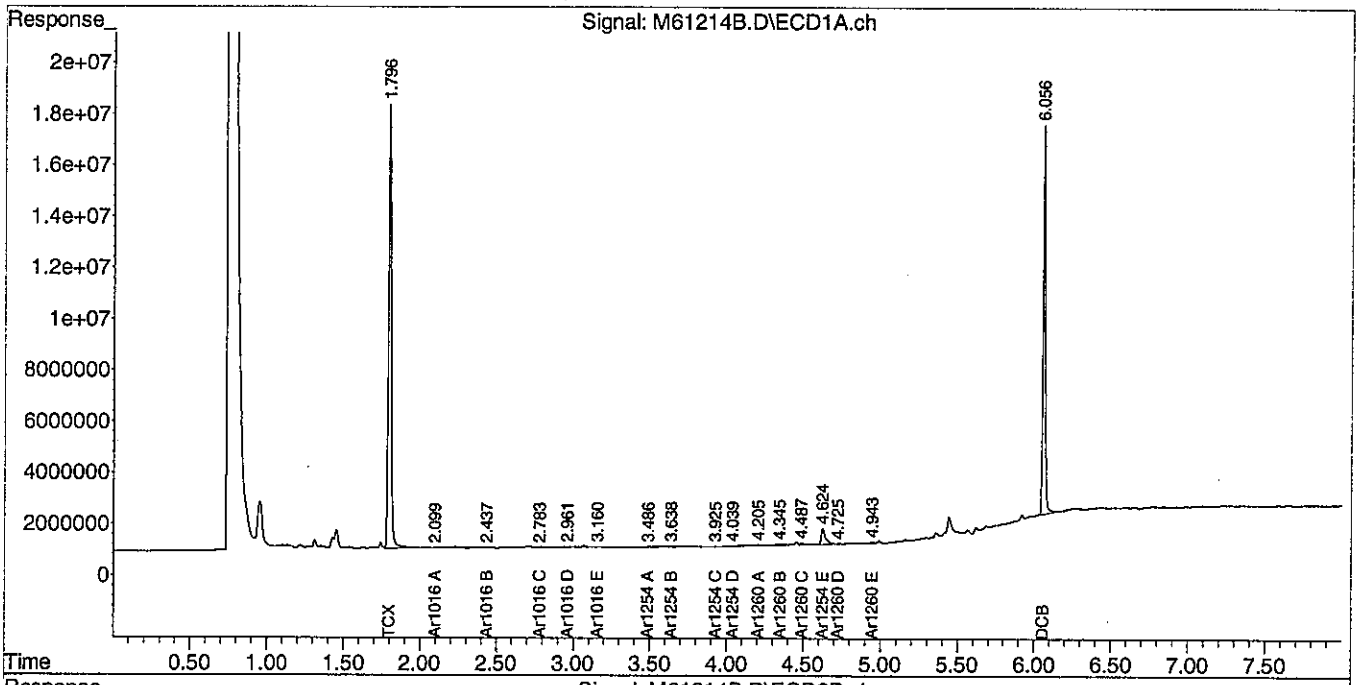
PCB Report

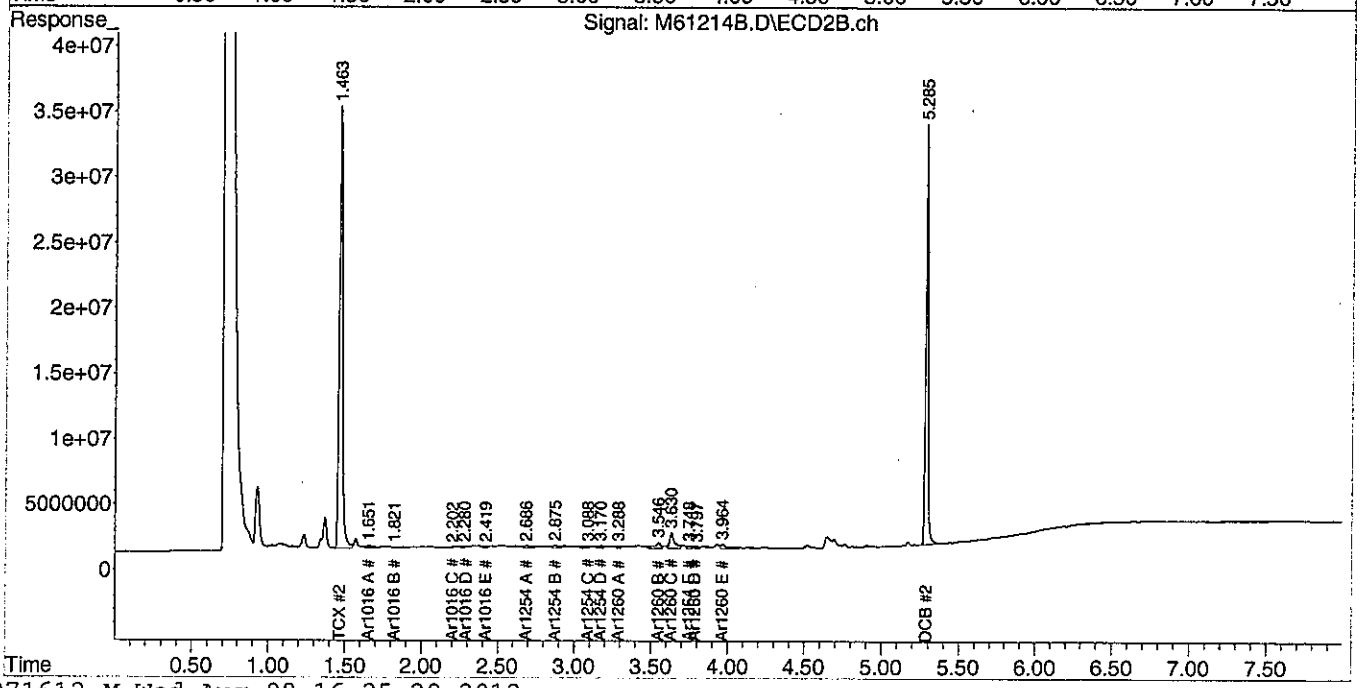
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\080812-M\
Data File : M61214B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Aug 2012 12:20 pm
Operator : JK
Sample : B080612PSOX,RR,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 08 16:24:40 2012
Quant Method : C:\msdchem\1\METHODS\PCB071612.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Aug 06 08:47:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 73485

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B080612PSOX,RR,,A/C	83		74		74		71	
L080612PSOX,RR,,A/C	80		74		72		72	
LD080612PSOX,RR,,A/C	78		71		71		69	
73485-1,,A/C	95		97		72		94	
73485-2,,A/C	57		I		66		I	
73485-5,,A/C	84		I		89		69	
73485-6,,A/C	96		93		93		93	
73485-7,,A/C	74		78		74		72	
73485-8,,A/C	82		66		77		59	
73485-10,,A/C	124		89		I		86	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

\# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 73485

Non-spiked sample: B080612PSOX,RR,,A/C

Spike: L080612PSOX,RR,,A/C

Spike duplicate: LD080612PSOX,RR,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	160	80		154	77		3.8	
PCB 1260	200	200	60	130	30	0	162	81		156	78		4.1	
PCB 1016 #2	200	200	65	140	30	0	153	76		144	72		6.0	
PCB 1260 #2	200	200	60	130	30	0	164	82		158	79		3.3	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

METALS
DATA SUMMARIES

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: B101-S1

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-1
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 95
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	16		mg/Kg	0.56	1.1	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.28	0.56	08/06/12	08/07/12	TD	1.00
Copper	221		mg/Kg	0.7	1.4	08/06/12	08/07/12	TD	1.00
Lead	12		mg/Kg	0.14	0.28	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: B102-S5

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-2
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 76
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	13		mg/Kg	0.69	1.4	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.34	0.69	08/06/12	08/07/12	TD	1.00
Copper	70		mg/Kg	0.86	1.7	08/06/12	08/07/12	TD	1.00
Lead	421		mg/Kg	0.17	0.34	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: B103-S1

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-3
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 97
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	6.7		mg/Kg	0.54	1.1	08/06/12	08/07/12	TD	1.00
Lead	110		mg/Kg	0.13	0.27	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: B104-S3

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-4
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 88
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	11		mg/Kg	0.5	0.99	08/06/12	08/07/12	TD	1.00
Lead	552		mg/Kg	0.25	0.5	08/06/12	08/07/12	TD	2.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: SS101

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-5
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 94
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	13		mg/Kg	0.48	0.96	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.24	0.48	08/06/12	08/07/12	TD	1.00
Copper	296		mg/Kg	0.6	1.2	08/06/12	08/07/12	TD	1.00
Lead	16		mg/Kg	0.12	0.24	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151

Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: SS102

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-6
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 91
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	13		mg/Kg	0.55	1.1	08/06/12	08/07/12	TD	1.00
Cadmium	0.55	J	mg/Kg	0.28	0.55	08/06/12	08/07/12	TD	1.00
Copper	3780		mg/Kg	6.9	14	08/06/12	08/07/12	TD	10
Lead	45		mg/Kg	0.14	0.28	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151

Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: SS103

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-7
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 95
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	18		mg/Kg	0.54	1.1	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.27	0.54	08/06/12	08/07/12	TD	1.00
Copper	3100		mg/Kg	6.8	14	08/06/12	08/07/12	TD	10
Lead	29		mg/Kg	0.14	0.27	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151

Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: SS104

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-8
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 94
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	10		mg/Kg	0.53	1.1	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.26	0.53	08/06/12	08/07/12	TD	1.00
Copper	80		mg/Kg	0.66	1.3	08/06/12	08/07/12	TD	1.00
Lead	8.9		mg/Kg	0.13	0.26	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151

Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: SS105

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-9
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 86
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	41		mg/Kg	0.55	1.1	08/06/12	08/07/12	TD	1.00
Lead	286		mg/Kg	0.14	0.28	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: SS10X

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-10
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 94
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	12		mg/Kg	0.57	1.1	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.29	0.57	08/06/12	08/07/12	TD	1.00
Copper	484		mg/Kg	0.71	1.4	08/06/12	08/07/12	TD	1.00
Lead	15		mg/Kg	0.14	0.29	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: MW101

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-11
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.02	0.04	08/07/12	08/07/12	TD	5
Cadmium	U		mg/L	0.008	0.015	08/07/12	08/07/12	TD	5
Copper	U		mg/L	0.063	0.13	08/07/12	08/07/12	TD	5
Lead	U		mg/L	0.013	0.025	08/07/12	08/07/12	TD	5

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: Dilution required due to matrix interference.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 Method 3005A

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151

Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: MW102

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-12
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.02	0.04	08/07/12	08/07/12	TD	5
Cadmium	U		mg/L	0.008	0.015	08/07/12	08/07/12	TD	5
Copper	U		mg/L	0.063	0.13	08/07/12	08/07/12	TD	5
Lead	U		mg/L	0.013	0.025	08/07/12	08/07/12	TD	5

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: Dilution required due to matrix interference.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 Method 3005A

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: MW103

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-13
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.02	0.04	08/07/12	08/07/12	TD	5
Lead	U		mg/L	0.013	0.025	08/07/12	08/07/12	TD	5

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: Dilution required due to matrix interference.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 Method 3005A

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: MW104

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-14
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.02	0.04	08/07/12	08/07/12	TD	5
Lead	U		mg/L	0.013	0.025	08/07/12	08/07/12	TD	5

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: Dilution required due to matrix interference.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 Method 3005A

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: MWX

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-15
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.02	0.04	08/07/12	08/07/12	TD	5
Lead	0.014	J	mg/L	0.013	0.025	08/07/12	08/07/12	TD	5

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: Dilution required due to matrix interference.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 Method 3005A

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: BK-1

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-18
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 90
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	6.2		mg/Kg	0.55	1.1	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.28	0.55	08/06/12	08/07/12	TD	1.00
Copper	35		mg/Kg	0.69	1.4	08/06/12	08/07/12	TD	1.00
Lead	13		mg/Kg	0.14	0.28	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151

Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: BK-2

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-19
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 93
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	9.6		mg/Kg	0.52	1	08/06/12	08/07/12	TD	1.00
Cadmium	0.26	J	mg/Kg	0.26	0.52	08/06/12	08/07/12	TD	1.00
Copper	25		mg/Kg	0.65	1.3	08/06/12	08/07/12	TD	1.00
Lead	142		mg/Kg	0.13	0.26	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: BK-3

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: 73485-20
Date Sampled: 08/03/12
Date Received: 08/03/12
Matrix: Solid
% Solid: 96
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	12		mg/Kg	0.48	0.96	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.24	0.48	08/06/12	08/07/12	TD	1.00
Copper	25		mg/Kg	0.6	1.2	08/06/12	08/07/12	TD	1.00
Lead	49		mg/Kg	0.12	0.24	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

METALS
QC FORMS

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151

Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: Lab QC

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: B080612MS2
Date Sampled: NA
Date Received: NA
Matrix: Solid
% Solid: 100
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/Kg	0.5	1	08/06/12	08/07/12	TD	1.00
Cadmium	U		mg/Kg	0.25	0.5	08/06/12	08/07/12	TD	1.00
Copper	1.7*		mg/Kg	0.63	1.3	08/06/12	08/07/12	TD	1.00
Lead	U		mg/Kg	0.13	0.25	08/06/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Copper is above the LOQ. All samples associated with this blank have copper at concentrations greater than ten times the contamination.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 3050B

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Client: Ransom Consulting, Inc.
Project name: Belfast Boatyard-Front Street
Project NO: 111.06134

Sample ID: Lab QC

Report Date: 08/08/2012

SDG ID: 73485
Lab ID: CCB080712-2
Date Sampled: NA
Date Received: NA
Matrix: Aqueous
% Solid: 100
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.004	0.008	08/07/12	08/07/12	TD	1.00
Cadmium	U		mg/L	0.002	0.003	08/07/12	08/07/12	TD	1.00
Copper	U		mg/L	0.013	0.025	08/07/12	08/07/12	TD	1.00
Lead	U		mg/L	0.003	0.005	08/07/12	08/07/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments:

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW-846 Method 3005A

Metals
Laboratory Control Sample
Percent Recovery

Method: 6010B
Matrix: Soil
Date Analyzed: 8/7/2012

SDG: 73485
Non-spiked Sample B080612MS2
Spike: L080612MS2

Analyte	Spike added	LCS Result	Unit	% Rec	Low Limit	High Limit
Arsenic	49.1	33.2	mg/kg	68%	32.4	65.8
Cadmium	67.9	56.0	mg/kg	83%	49.7	95
Copper	50.8	39.4	mg/kg	77%	36.5	65.1
Lead	82.8	66.4	mg/kg	80%	57.5	108

Analytics Environmental Laboratory L L C
Melissa Gulli QA/QC Officer 603-436-5111
195 Commerce Way Suite E
Portsmouth NH 03801

Account # 2041

USEPA Lab ID NH00032
Study #
Study Type Internal PT

NPDES ID #
Open Date
Close Date

NELAC #	Component	Method Code	Method Description	</>	Reported Value	Assigned Value	Acceptance Limits Low	Acceptance Limits High	Performance Evaluation
Part#55103	Lot#021512	RCRA Metals in Soil #2			NELAC Additional Analytes		Invoice# 125702		Units mg/Kg
1000	Aluminum					11165	5280	18759	
1035	Calcium					1813	1154	2472	
1070	Iron					11517	3208	19826	
1125	Potassium					2264	1349	3199	
1085	Magnesium					2165	1317	3038	
1155	Sodium					606	327	885	
Part#55102	Lot#030912	RCRA Metals in Soil #1			NELAC Additional Analytes		Invoice# 125702		Units mg/Kg
1005	Antimony					59.5	11.3	162	
1010	Arsenic					49.1	32.4	65.8	
1015	Barium					111	79.6	142	
1020	Beryllium					43.7	31.5	58.3	
1025	Boron					67.1	33.5	101	
1030	Cadmium					67.9	49.7	95	
1040	Chromium					57.1	38.6	75.6	
1050	Cobalt					36	26.7	48.2	
1055	Copper					50.8	36.5	65.1	
1075	Lead					82.8	57.5	108	
1090	Manganese					274	202	346	
1095	Mercury					6.91	3.54	10.3	
1100	Molybdenum					33.3	21	45.6	
1105	Nickel					53.5	37.2	71.9	
1140	Selenium					48.9	28.3	71.3	
1150	Silver					31	20.2	41.8	
1175	Tin					108	62.1	199	
1160	Strontium					62.1	43.3	84.8	
1165	Thallium					39.3	23.7	57.2	
1180	Titanium					288	0	889	
1185	Vanadium					96.1	62.4	130	
1190	Zinc					90.7	57.3	124	

Samples were prepared according to the principles outlined in the "2003 NELAC STANDARD".
and the current NELAC Fields of Proficiency Testing Tables, FoPTs.
All Part #'s are formulated and verified under Absolutes' NELAC scope, (A2LA #2429.01).

Metals
Matrix Spike/Duplicate
Percent Recovery

Method: 6010B
Matrix: Soil
Date Analyzed: 8/7/2012

SDG: 73485
Non-spiked Sample 73485-20
Spike: 73485-20 MS
Spike Duplicate: 73485-20 MSD

Analyte	Sample Result	Spike added	MS Result	MS Qualifier	Unit	% Rec	% Rec Limits
Arsenic	12.36	25	30.72		mg/kg	73%	75-125
Cadmium	0.00	25	21.09		mg/kg	84%	75-125
Copper	25.01	25	37.10		mg/kg	48%	75-125
Lead	49.08	25	52.86		mg/kg	15%	75-125

Analyte	Sample Result	Spike added	MSD Result	MSD Qualifier	Unit	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic	12.36	25	35.35		mg/kg	92%	75-125	14%	25
Cadmium	0.00	25	23.31		mg/kg	93%	75-125	10%	25
Copper	25.01	25	43.06		mg/kg	72%	75-125	15%	25
Lead	49.08	25	64.84		mg/kg	63%	75-125	20%	25

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4.8°C
3) Received in good condition: (Y) or N
4) pH checked by: NA 8/6/12
5) Labels checked by: 8/6/12

Project Name: Belfast Boatyard - Front Street
Project#: 111.06134
Company: Ransom Consulting
Report to: Peter Shen / Erik Phenix
Address: 400 Commercial St, Suite 404
Portland, ME 04101
Phone: 207-772-2891
Quote #:
PO# (if required):

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Preservation Code:
Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**								Matrix	No. of Containers	pH checked	Analytics Sample #
													As, Cd, Cu, Pb	As, Pb only									
B101-S1	8/3/12	840		X			X			X	X		X							S	6		73485-1
B102-S5	8/3/12	900		X			X			X	X		X							S	6		2
B103-S1	8/3/12	950		X						X	X			X						S	5		3
B104-S3	8/3/12	1025		X						X	X			X						S	5		4
SS101	8/3/12	800		X			X			X	X		X							S	6		5
SS102	8/3/12	900		X			X			X	X		X							S	6		6
SS103	8/3/12	950		X			X			X	X		X							S	6		7
SS104	8/3/12	1000		X			X			X	X		X							S	6		8
SS105	8/3/12	1010		X						X	X			X						S	5		9
SS10X	8/3/12	830		X			X			X	X		X							S	8		10

Email Results to:
peter.shen@ransomenv.com
ephenix@ransomenv.com

Comments, Additional Analyses, or Special Instructions:
* EPA Brownfields
** List requested metals here

Project Requirements:
*Fee may apply

Turnaround Time (TAT)
96hr
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☐ 5 Days*
☒ 10 Days
*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH ☐ MA ☒ ME ☐ CT ☐ RI
Other:

State Standard: MEDEP
(eg. S-1 or GW-1)
EDD Required: (Y)* N
Type: MEDEP

Sampler Name (Print): Aaron Martin
Relinquished By Sampler: Erik Phenix — Date: 8/3/12 — Time: 1430 — Received By: Jack Mayo
Relinquished By: — Date: — Time: — Received By:
Relinquished By: — Date: — Time: — Received By:

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 9.8°C
3) Received in good condition: (Y) or N
4) pH checked by: QR 8/6/12
5) Labels checked by: JR 8/6/12

Project Name: Belfast Boatyard - Front Street
Project#: 111.06134
Company: Ransom Consulting
Report to: Peter Sherr / Erik Phenix
Address: 400 Commercial St., Suite 404
Portland, ME 04101
Phone: 207-772-2891
Quote #:
PO# (if required):

Preservation Code: Please fill in preservation code here

Preseravtion Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	TPH: 8015 (Gas Range) Soxhlet? Y or N	TPH: 8015 (Diesel Range) ME4217	EPH: Full or Ranges only 8100M ME4125	VPH: Full or Ranges only TETPH	Metals: RCRA8 PP13 TAL23 Other**	As, Cd, Cr, Pb	As, Pb Only	As, Cd, Cu, Pb	Matrix	No. of Containers	pH checked	Analytics Sample #
MW 101	8/3/12	11:00	Y	X						X	X				X	GW	8		73485-11
MW 102	8/3/12	11:30	Y	X						X	X				X	GW	8		12
MW 103	8/3/12	12:00	Y	X						X	X			X		GW	8		13
MW 104	8/3/12	12:30	Y	X						X	X			X		GW	10		14
MW X	8/3/12	12:30	Y	X						X	X			X		GW	8		15
Trip Blank	—	—		X												GW	2		16
Trip Blank	—	—		X												S	1		17

Email Results to: peter.sherr@ransomenv.com, ephenix@ransomenv.com

Turnaround Time (TAT): 96 hr
☐ 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☒ 5 Days* ☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:
** = As = Arsenic, Cd = Cadmium, Cu = Copper, Pb = Lead
& EPA Brownfields

** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply

Report Type: ☐ MCP* ☒ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☐ Standard

State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:

State Standard: MEDEP (eg. S-1 or GW-1)

EDD Required: (Y*) N
Type: MEDEP

Sampler Name (Print): Aaron Martin

	Date	Time	
Relinquished By Sampler: Erik Phenix	8/3/12	1930	Received By: L Mayo
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4.8°C
3) Received in good condition: (Y) or N
4) pH checked by: NLK CP 8/6/12
5) Labels checked by: 8/6/12

Project Name: Belfast Boatyard - Front Street
Project#: 111.06134
Company: Ransom Consulting
Report to: Erik Phenix/Pete Sherr
Address: 400 Commercial St. Portland ME
Phone: (207) 772-2891
Quote #:
PO# (if required):

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals:- RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
BK-1	8/3/12	0947								X		X	S	2		73485-18
BK-2	8/3/12	0940										X		1		19
BK-3	8/3/12	0952										X		1		20

Email Results to:

Turnaround Time (TAT)
96 hr
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☐ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here
Metals = Arsenic, Cadmium, Copper, Lead.
EPA Brownfields

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH ☐ MA ☐ ME ☐ CT ☐ RI
Other:

State Standard: MEDEP
(eg. S-1 or GW-1)
EDD Required: (Y) N
Type: MEDEP

Sampler Name (Print): Erik Phenix

	Date	Time	
Relinquished By Sampler: Erik Phenix	8/3/12	1430	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 73485 COOLER NUMBER: 223/259

CLIENT: Ransom NUMBER OF COOLERS: 2

PROJECT: Belfast Boatyard - Front St.

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): CM DATE COOLER RECEIVED/OPENED: 8/3/12

2. Circle one: (Hand delivered (If so, skip 3)) Shipped

3. Did cooler come with a shipping slip? Y (N/A)

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y (N/A)

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)?	(Y)	N
8. Were custody papers sealed in a plastic bag?	(Y)	N
9. Did you sign the COC in the appropriate place?	(Y)	N
10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 4.2° + 4.8°		
B. Log-In: Date samples were logged in: 8/6/12 By: CP		
11. Were all bottles sealed in separate plastic bags?	Y	(N)
12. Did all bottles arrive unbroken and were labels in good condition?	(Y)	N
13. Were all bottle labels complete(ID,Date,time,etc.)	(Y)	N
14. Did all bottle labels agree with custody papers?	(Y)	N
15. Were the correct containers used for the tests indicated:	(Y)	N
16. Were samples received at the correct pH? Metals + EPH AQ all had pH ≤ 1.5	(Y)	N
17. Was sufficient amount of sample sent for the tests indicated?	(Y)	N
18. Were all samples submitted within holding time?	(Y)	N
19. Were all containers used within expiration date?	(Y)	N
20. Were VOA samples absent of greater than pea-sized bubbles? (Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)	Y	(N*)

*If NO, List Sample ID's, Lab #s: MW-104 had 1 vial

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): _____ Date: 8/6/12

ANALYTICAL REPORT

Lab Number:	L1214012
Client:	Ransom Environmental 400 Commercial Street Suite 404 Portland, ME 04101-4660
ATTN:	Peter Sherr
Phone:	(207) 772-2891
Project Name:	BELFAST BOATYARD-FRONT ST.
Project Number:	12111.06134.015
Report Date:	08/09/12

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: BELFAST BOATYARD-FRONT ST.
Project Number: 12111.06134.015

Lab Number: L1214012
Report Date: 08/09/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1214012-01	SV101	41 FRONT ST.	08/03/12 12:53
L1214012-02	SVDUP	41 FRONT ST.	08/03/12 12:53
L1214012-03	UNUSED CAN ID 825	41 FRONT ST.	

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	BELFAST BOATYARD-FRONT ST.	**Lab Number:**	L1214012
Project Number:	12111.06134.015	**Report Date:**	08/09/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	BELFAST BOATYARD-FRONT ST.	**Lab Number:**	L1214012
Project Number:	12111.06134.015	**Report Date:**	08/09/12

Case Narrative (continued)

Canisters were released from the laboratory on July 30, 2012.
The canister certification data is provided as an addendum.

It should be noted that the canisters did not pass certification for Chloroform via TO-15-SIM. Therefore, any Chloroform detections may be biased.

Volatile Organics in Air (SIM)
L1214012-01 and -02 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

L1214012-01 and -02 The presence of Chloromethane could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

MCP Related Narratives
Petroleum Hydrocarbons in Air
In reference to question G:
One or more of the target analytes did not achieve the requested CAM reporting limits.

L1214012-01 and -02 All significant concentrations of non-petroleum VOCs detected in the TO-15 analysis were subtracted from the corresponding hydrocarbon ranges.

L1214012-01 and -02 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen O'Brien

Title: Technical Director/Representative Date: 08/09/12

AIR

Project Name: BELFAST BOATYARD-FRONT ST. ***Lab Number:*** L1214012

Project Number: 12111.06134.015 ***Report Date:*** 08/09/12

SAMPLE RESULTS

Lab ID: L1214012-01 D
Client ID: SV101
Sample Location: 41 FRONT ST.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/07/12 20:32
Analyst: MB

Date Collected: 08/03/12 12:53
Date Received: 08/06/12
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	7.34	0.570	--	36.3	2.82	--		11.41
Chloromethane	ND	5.70	--	ND	11.8	--		11.41
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.570	--	ND	3.98	--		11.41
Vinyl chloride	ND	0.228	--	ND	0.583	--		11.41
1,3-Butadiene	6.34	0.228	--	14.0	0.504	--		11.41
Bromomethane	ND	0.228	--	ND	0.885	--		11.41
Chloroethane	0.274	0.228	--	0.723	0.602	--		11.41
Trichlorofluoromethane	0.673	0.570	--	3.78	3.20	--		11.41
1,1-Dichloroethene	ND	0.228	--	ND	0.904	--		11.41
Methylene chloride	ND	11.4	--	ND	39.6	--		11.41
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.570	--	ND	4.37	--		11.41
trans-1,2-Dichloroethene	ND	0.228	--	ND	0.904	--		11.41
1,1-Dichloroethane	ND	0.228	--	ND	0.923	--		11.41
Methyl tert butyl ether	0.650	0.228	--	2.34	0.822	--		11.41
cis-1,2-Dichloroethene	ND	0.228	--	ND	0.904	--		11.41
Chloroform	4.11	0.228	--	20.1	1.11	--		11.41
1,2-Dichloroethane	ND	0.228	--	ND	0.923	--		11.41
1,1,1-Trichloroethane	ND	0.228	--	ND	1.24	--		11.41
Benzene	2.08	1.14	--	6.64	3.64	--		11.41
Carbon tetrachloride	ND	0.228	--	ND	1.43	--		11.41
1,2-Dichloropropane	ND	0.228	--	ND	1.05	--		11.41
Bromodichloromethane	0.308	0.228	--	2.06	1.53	--		11.41
Trichloroethene	ND	0.228	--	ND	1.22	--		11.41
cis-1,3-Dichloropropene	ND	0.228	--	ND	1.04	--		11.41

Project Name: BELFAST BOATYARD-FRONT ST. ***Lab Number:*** L1214012

Project Number: 12111.06134.015 ***Report Date:*** 08/09/12

SAMPLE RESULTS

Lab ID: L1214012-01 D
Client ID: SV101
Sample Location: 41 FRONT ST.

Date Collected: 08/03/12 12:53
Date Received: 08/06/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.228	--	ND	1.04	--		11.41
1,1,2-Trichloroethane	ND	0.228	--	ND	1.24	--		11.41
Toluene	1.48	0.570	--	5.58	2.15	--		11.41
Dibromochloromethane	ND	0.228	--	ND	1.94	--		11.41
1,2-Dibromoethane	ND	0.228	--	ND	1.75	--		11.41
Tetrachloroethene	3.99	0.228	--	27.0	1.55	--		11.41
1,1,1,2-Tetrachloroethane	ND	0.228	--	ND	1.56	--		11.41
Chlorobenzene	ND	0.228	--	ND	1.05	--		11.41
Ethylbenzene	0.285	0.228	--	1.24	0.990	--		11.41
p/m-Xylene	0.593	0.456	--	2.58	1.98	--		11.41
Bromoform	ND	0.228	--	ND	2.36	--		11.41
Styrene	ND	0.228	--	ND	0.971	--		11.41
1,1,2,2-Tetrachloroethane	ND	0.228	--	ND	1.56	--		11.41
o-Xylene	0.319	0.228	--	1.38	0.990	--		11.41
1,3,5-Trimethylbenzene	ND	0.228	--	ND	1.12	--		11.41
1,2,4-Trimethylbenzene	ND	0.228	--	ND	1.12	--		11.41
1,3-Dichlorobenzene	ND	0.228	--	ND	1.37	--		11.41
1,4-Dichlorobenzene	ND	0.228	--	ND	1.37	--		11.41
1,2-Dichlorobenzene	ND	0.228	--	ND	1.37	--		11.41
1,2,4-Trichlorobenzene	ND	0.570	--	ND	4.23	--		11.41
Hexachlorobutadiene	ND	0.570	--	ND	6.08	--		11.41

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	104		60-140

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

SAMPLE RESULTS

Lab ID: L1214012-02 D
Client ID: SVDUP
Sample Location: 41 FRONT ST.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/07/12 21:04
Analyst: MB

Date Collected: 08/03/12 12:53
Date Received: 08/06/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	7.80	0.596	--	38.6	2.95	--		11.92
Chloromethane	ND	5.96	--	ND	12.3	--		11.92
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.02	0.596	--	35.1	4.16	--		11.92
Vinyl chloride	ND	0.238	--	ND	0.608	--		11.92
1,3-Butadiene	6.54	0.238	--	14.5	0.526	--		11.92
Bromomethane	ND	0.238	--	ND	0.924	--		11.92
Chloroethane	0.310	0.238	--	0.818	0.628	--		11.92
Trichlorofluoromethane	0.810	0.596	--	4.55	3.35	--		11.92
1,1-Dichloroethene	ND	0.238	--	ND	0.944	--		11.92
Methylene chloride	ND	11.9	--	ND	41.3	--		11.92
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.596	--	ND	4.57	--		11.92
trans-1,2-Dichloroethene	ND	0.238	--	ND	0.944	--		11.92
1,1-Dichloroethane	ND	0.238	--	ND	0.963	--		11.92
Methyl tert butyl ether	0.656	0.238	--	2.36	0.858	--		11.92
cis-1,2-Dichloroethene	ND	0.238	--	ND	0.944	--		11.92
Chloroform	3.72	0.238	--	18.2	1.16	--		11.92
1,2-Dichloroethane	ND	0.238	--	ND	0.963	--		11.92
1,1,1-Trichloroethane	ND	0.238	--	ND	1.30	--		11.92
Benzene	2.04	1.19	--	6.52	3.80	--		11.92
Carbon tetrachloride	ND	0.238	--	ND	1.50	--		11.92
1,2-Dichloropropane	ND	0.238	--	ND	1.10	--		11.92
Bromodichloromethane	0.298	0.238	--	2.00	1.59	--		11.92
Trichloroethene	ND	0.238	--	ND	1.28	--		11.92
cis-1,3-Dichloropropene	ND	0.238	--	ND	1.08	--		11.92

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

SAMPLE RESULTS

Lab ID: L1214012-02 D Date Collected: 08/03/12 12:53

Client ID: SVDUP Date Received: 08/06/12

Sample Location: 41 FRONT ST. Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.238	--	ND	1.08	--		11.92
1,1,2-Trichloroethane	ND	0.238	--	ND	1.30	--		11.92
Toluene	1.49	0.596	--	5.62	2.25	--		11.92
Dibromochloromethane	ND	0.238	--	ND	2.03	--		11.92
1,2-Dibromoethane	ND	0.238	--	ND	1.83	--		11.92
Tetrachloroethene	3.97	0.238	--	26.9	1.61	--		11.92
1,1,1,2-Tetrachloroethane	ND	0.238	--	ND	1.63	--		11.92
Chlorobenzene	ND	0.238	--	ND	1.10	--		11.92
Ethylbenzene	0.286	0.238	--	1.24	1.03	--		11.92
p/m-Xylene	0.596	0.477	--	2.59	2.07	--		11.92
Bromoform	ND	0.238	--	ND	2.46	--		11.92
Styrene	ND	0.238	--	ND	1.01	--		11.92
1,1,2,2-Tetrachloroethane	ND	0.238	--	ND	1.63	--		11.92
o-Xylene	0.322	0.238	--	1.40	1.03	--		11.92
1,3,5-Trimethylbenzene	ND	0.238	--	ND	1.17	--		11.92
1,2,4-Trimethylbenzene	ND	0.238	--	ND	1.17	--		11.92
1,3-Dichlorobenzene	ND	0.238	--	ND	1.43	--		11.92
1,4-Dichlorobenzene	ND	0.238	--	ND	1.43	--		11.92
1,2-Dichlorobenzene	ND	0.238	--	ND	1.43	--		11.92
1,2,4-Trichlorobenzene	ND	0.596	--	ND	4.42	--		11.92
Hexachlorobutadiene	ND	0.596	--	ND	6.36	--		11.92

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	103		60-140

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 08/07/12 14:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG553382-4								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 08/07/12 14:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG553382-4								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.

Project Number: 12111.06134.015

Lab Number: L1214012

Report Date: 08/09/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG553382-3								
Dichlorodifluoromethane	90		-		70-130	-		25
Chloromethane	106		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	105		-		70-130	-		25
Vinyl chloride	107		-		70-130	-		25
1,3-Butadiene	114		-		70-130	-		25
Bromomethane	104		-		70-130	-		25
Chloroethane	106		-		70-130	-		25
Trichlorofluoromethane	107		-		70-130	-		25
1,1-Dichloroethene	108		-		70-130	-		25
Methylene chloride	109		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		-		70-130	-		25
trans-1,2-Dichloroethene	99		-		70-130	-		25
1,1-Dichloroethane	108		-		70-130	-		25
Methyl tert butyl ether	109		-		70-130	-		25
cis-1,2-Dichloroethene	115		-		70-130	-		25
Chloroform	105		-		70-130	-		25
1,2-Dichloroethane	109		-		70-130	-		25
1,1,1-Trichloroethane	107		-		70-130	-		25
Benzene	91		-		70-130	-		25
Carbon tetrachloride	113		-		70-130	-		25
1,2-Dichloropropane	103		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.

Project Number: 12111.06134.015

Lab Number: L1214012

Report Date: 08/09/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG553382-3								
Bromodichloromethane	107		-		70-130	-		25
Trichloroethene	104		-		70-130	-		25
cis-1,3-Dichloropropene	117		-		70-130	-		25
trans-1,3-Dichloropropene	103		-		70-130	-		25
1,1,2-Trichloroethane	106		-		70-130	-		25
Toluene	104		-		70-130	-		25
Dibromochloromethane	117		-		70-130	-		25
1,2-Dibromoethane	112		-		70-130	-		25
Tetrachloroethene	107		-		70-130	-		25
1,1,1,2-Tetrachloroethane	110		-		70-130	-		25
Chlorobenzene	109		-		70-130	-		25
Ethylbenzene	109		-		70-130	-		25
p/m-Xylene	108		-		70-130	-		25
Bromoform	119		-		70-130	-		25
Styrene	104		-		70-130	-		25
1,1,2,2-Tetrachloroethane	113		-		70-130	-		25
o-Xylene	110		-		70-130	-		25
1,3,5-Trimethylbenzene	111		-		70-130	-		25
1,2,4-Trimethylbenzene	113		-		70-130	-		25
1,3-Dichlorobenzene	113		-		70-130	-		25
1,4-Dichlorobenzene	113		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.

Project Number: 12111.06134.015

Lab Number: L1214012

Report Date: 08/09/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG553382-3								
1,2-Dichlorobenzene	114		-		70-130	-		25
1,2,4-Trichlorobenzene	123		-		70-130	-		25
Hexachlorobutadiene	116		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.
Project Number: 12111.06134.015

Lab Number: L1214012
Report Date: 08/09/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG553382-5 QC Sample: L1214067-02 Client ID: DUP Sample						
Dichlorodifluoromethane	0.458	0.443	ppbV	3		25
Chloromethane	2.56	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	32.2	32.3	ppbV	0		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	0.232	0.226	ppbV	3		25
Trichlorofluoromethane	0.453	0.463	ppbV	2		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	0.251	0.251	ppbV	0		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	8.98	9.02	ppbV	0		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.
Project Number: 12111.06134.015

Lab Number: L1214012
Report Date: 08/09/12

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG553382-5 QC Sample: L1214067-02 Client ID: DUP Sample						
Carbon tetrachloride	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
Trichloroethene	0.197	0.197	ppbV	0		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	7.12	7.12	ppbV	0		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.167	0.271	ppbV	**47**	Q	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	1.46	1.46	ppbV	0		25
p/m-Xylene	2.44	2.45	ppbV	0		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	1.36	1.36	ppbV	0		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	1.14	1.13	ppbV	1		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.
Project Number: 12111.06134.015

Lab Number: L1214012
Report Date: 08/09/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG553382-5 QC Sample: L1214067-02 Client ID: DUP Sample					
1,3,5-Trimethylbenzene	0.192	0.197	ppbV	3	25
1,2,4-Trimethylbenzene	0.690	0.690	ppbV	0	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	0.217	0.222	ppbV	2	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

SAMPLE RESULTS

Lab ID:	L1214012-01	D	Date Collected:	08/03/12 12:53
Client ID:	SV101		Date Received:	08/06/12
Sample Location:	41 FRONT ST.		Field Prep:	Not Specified
Matrix:	Soil_Vapor			
Analytical Method:	96,APH			
Analytical Date:	08/07/12 20:32			
Analyst:	MB			

Quality Control Information

Sample Type:	10 Minute Composite
Sample Container Type:	Canister - 1 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	22	--	11
Methyl tert butyl ether	ND		ug/m3	22	--	11
Benzene	ND		ug/m3	22	--	11
C5-C8 Aliphatics, Adjusted	610		ug/m3	130	--	11
Toluene	ND		ug/m3	22	--	11
Ethylbenzene	ND		ug/m3	22	--	11
p/m-Xylene	ND		ug/m3	44	--	11
o-Xylene	ND		ug/m3	22	--	11
Naphthalene	ND		ug/m3	22	--	11
C9-C12 Aliphatics, Adjusted	150		ug/m3	150	--	11
C9-C10 Aromatics Total	ND		ug/m3	110	--	11

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		50-200
Bromochloromethane	96		50-200
Chlorobenzene-d5	95		50-200

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

SAMPLE RESULTS

Lab ID:	L1214012-02	D	Date Collected:	08/03/12 12:53
Client ID:	SVDUP		Date Received:	08/06/12
Sample Location:	41 FRONT ST.		Field Prep:	Not Specified
Matrix:	Soil_Vapor			
Analytical Method:	96,APH			
Analytical Date:	08/07/12 21:04			
Analyst:	MB			

Quality Control Information

Sample Type:	10 Minute Composite
Sample Container Type:	Canister - 1 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	24	--	12
Methyl tert butyl ether	ND		ug/m3	24	--	12
Benzene	ND		ug/m3	24	--	12
C5-C8 Aliphatics, Adjusted	790		ug/m3	140	--	12
Toluene	ND		ug/m3	24	--	12
Ethylbenzene	ND		ug/m3	24	--	12
p/m-Xylene	ND		ug/m3	48	--	12
o-Xylene	ND		ug/m3	24	--	12
Naphthalene	ND		ug/m3	24	--	12
C9-C12 Aliphatics, Adjusted	ND		ug/m3	170	--	12
C9-C10 Aromatics Total	ND		ug/m3	120	--	12

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		50-200
Bromochloromethane	97		50-200
Chlorobenzene-d5	94		50-200

Project Name: BELFAST BOATYARD-FRONT ST. **Lab Number:** L1214012

Project Number: 12111.06134.015 **Report Date:** 08/09/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH
Analytical Date: 08/07/12 14:52
Analyst: MB

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-02 Batch: WG553381-4					
1,3-Butadiene	ND		ug/m3	2.0	--
Methyl tert butyl ether	ND		ug/m3	2.0	--
Benzene	ND		ug/m3	2.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--
Toluene	ND		ug/m3	2.0	--
Ethylbenzene	ND		ug/m3	2.0	--
p/m-Xylene	ND		ug/m3	4.0	--
o-Xylene	ND		ug/m3	2.0	--
Naphthalene	ND		ug/m3	2.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--
C9-C10 Aromatics Total	ND		ug/m3	10	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.

Project Number: 12111.06134.015

Lab Number: L1214012

Report Date: 08/09/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG553381-3								
1,3-Butadiene	91		-		70-130	-		
Methyl tert butyl ether	92		-		70-130	-		
Benzene	88		-		70-130	-		
C5-C8 Aliphatics, Adjusted	88		-		70-130	-		
Toluene	89		-		70-130	-		
Ethylbenzene	91		-		70-130	-		
p/m-Xylene	89		-		70-130	-		
o-Xylene	92		-		70-130	-		
Naphthalene	112		-		50-150	-		
C9-C12 Aliphatics, Adjusted	94		-		70-130	-		
C9-C10 Aromatics Total	81		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: BELFAST BOATYARD-FRONT ST.
Project Number: 12111.06134.015

Lab Number: L1214012
Report Date: 08/09/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG553381-5 QC Sample: L1214067-02 Client ID: DUP Sample						
1,3-Butadiene	69	69	ug/m3	0		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	31	31	ug/m3	0		30
C5-C8 Aliphatics, Adjusted	2700	2700	ug/m3	0		30
Toluene	26	26	ug/m3	0		30
Ethylbenzene	ND	ND	ug/m3	NC		30
p/m-Xylene	ND	ND	ug/m3	NC		30
o-Xylene	ND	ND	ug/m3	NC		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	660	690	ug/m3	4		30
C9-C10 Aromatics Total	ND	ND	ug/m3	NC		30

Project Name: BELFAST BOATYARD-FRONT ST.

Lab Number: L1214012

Project Number: 12111.06134.015

Report Date: 08/09/12

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1214012-01	SV101	0399	#90 SV	07/30/12	79932		-	-	-	Pass	78	81	4
L1214012-01	SV101	667	1.0L Can	07/30/12	79932	L1212258-04	Pass	-29.1	-2.0	-	-	-	-
L1214012-02	SVDUP	0236	#90 SV	07/30/12	79932		-	-	-	Pass	76	76	0
L1214012-02	SVDUP	882	1.0L Can	07/30/12	79932	L1212258-04	Pass	-29.2	-2.9	-	-	-	-
L1214012-03	UNUSED CAN ID 825	0159	#90 SV	07/30/12	79932		-	-	-	Pass	76	76	0
L1214012-03	UNUSED CAN ID 825	825	1.0L Can	07/30/12	79932	L1212258-04	Pass	-28.6	-28.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1212258
Report Date: 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04
Client ID: CAN 868 SHELF 9
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/12/12 18:05
Analyst: RY

Date Collected: 07/11/12 14:14
Date Received: 07/11/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1212258

Project Number: CANISTER QC BAT **Report Date:** 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04 Date Collected: 07/11/12 14:14

Client ID: CAN 868 SHELF 9 Date Received: 07/11/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1212258

Project Number: CANISTER QC BAT **Report Date:** 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04 Date Collected: 07/11/12 14:14

Client ID: CAN 868 SHELF 9 Date Received: 07/11/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1212258

Project Number: CANISTER QC BAT **Report Date:** 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04 Date Collected: 07/11/12 14:14

Client ID: CAN 868 SHELF 9 Date Received: 07/11/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1212258

Project Number: CANISTER QC BAT **Report Date:** 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04 Date Collected: 07/11/12 14:14

Client ID: CAN 868 SHELF 9 Date Received: 07/11/12

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1212258

Project Number: CANISTER QC BAT **Report Date:** 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04
Client ID: CAN 868 SHELF 9
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/16/12 17:49
Analyst: MB

Date Collected: 07/11/12 14:14
Date Received: 07/11/12
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.088	0.020	--	0.430	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1212258
Report Date: 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04
Client ID: CAN 868 SHELF 9
Sample Location:
Date Collected: 07/11/12 14:14
Date Received: 07/11/12
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1212258
Report Date: 08/09/12

Air Canister Certification Results

Lab ID: L1212258-04
Client ID: CAN 868 SHELF 9
Sample Location:
Date Collected: 07/11/12 14:14
Date Received: 07/11/12
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	77		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1212258

Project Number: CANISTER QC BAT **Report Date:** 08/09/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1212258-04	Date Collected:	07/11/12 14:14
Client ID:	CAN 868 SHELF 9	Date Received:	07/11/12
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	07/16/12 17:49		
Analyst:	MB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BELFAST BOATYARD-FRONT ST.
Project Number: 12111.06134.015

Lab Number: L1214012
Report Date: 08/09/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214012-01A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),TO15-SIM(30)
L1214012-02A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),TO15-SIM(30)
L1214012-03A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	BELFAST BOATYARD-FRONT ST.	**Lab Number:**	L1214012
Project Number:	12111.06134.015	**Report Date:**	08/09/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	BELFAST BOATYARD-FRONT ST.	**Lab Number:**	L1214012
Project Number:	12111.06134.015	**Report Date:**	08/09/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

96 Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH), MassDEP, December 2009, Revision 1 with QC Requirements & Performance Standards for the Analysis of APH by GC/MS under the Massachusetts Contingency Plan, WSC-CAM-IXA, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

Biological Tissue (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15, TO-10A.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Non-Potable Water (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D .)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via NJ-DEP.***

Refer to NJ-DEP Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1214012

Client Information

Client: Ransom Consulting
Address: 400 Commercial St.
Portland ME 04101
Phone: (207) 772-2891
Fax: (207) 772-3248
Email: ephenix@ransomenv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Belfast Boatyard - Front St.
Project Location: 41 Front St.
Project #: R111.06134.015
Project Manager: Pete Sherr
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH *(only confirmed if pre-approved!)*

Date Due: 8/9/12 **Time:** 1700

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☒ EMAIL (standard pdf report)
☐ Additional Deliverables: _____

Report to: *(if different than Project Manager)*
ephenix@ransomenv.com
peter.sherr@ransomenv.com

Billing Information

☐ Same as Client info PO #: 4425

Ransom; 12 Kent Way
Byfield MA

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
USEPA	Brownfields	

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1214012-01	SV101	8/3/12	1242	1253	-29.68	-1.77	SV	EPP	1	667	399			X	X				
-02	SV DUP	8/3/12	1242	1253	-30.02	-2.43	SV	EPP	1	882	236			X	X				

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: CS

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Emily Phenix		USPS	
USPS	8/6/12 14:00	[signature]	8/6/12 14:00

APPENDIX D

Hazardous Building Materials Inventory

Phase II Environmental Site Assessment
Belfast Boatyard
39 and 41 Front Street
Belfast, Maine

RANSOM
Consulting, Inc.

Consulting
Engineers
and Scientists

August 24, 2012 Project 111.06134.016

Mr. Thomas Kittredge
Economic Development Director
City of Belfast
131 Church Street
Belfast, Maine 04915

RE: Hazardous Building Materials Inventory
Belfast Boatyard
39 and 41 Front Street
Belfast, Maine

Dear Mr. Kittredge:

Ransom Consulting, Inc. (Ransom) has prepared this report presenting the results of the Hazardous Building Materials Inventory (HMI) performed at the Belfast Boatyard located at 39 and 41 Front Street in Belfast, Maine (the Site). The Site is currently developed with two buildings, identified herein, as the Shop Office and the Spar Shed. Ransom understands that the Site is included in a potential real estate transaction and is proposed for redevelopment as a boat yard. The work performed by Ransom was authorized by the City of Belfast Brownfields program and the United States Environmental Protection Agency (EPA), as part of environmental due diligence, prior to the proposed property transfer/redevelopment. This report has been prepared for the City of Belfast in accordance with the scope of work outlined in the EPA- and Maine Department of Environmental Protection (MEDEP)-approved Site Specific Quality Assurance Project Plan (SSQAPP), dated July 30, 2012.

BACKGROUND

Two buildings are included in the scope of this report, referred to herein as the Shop Office and the Spar Shed buildings. The Shop Office building was constructed in 1983 and consists of a 1 ½-story (8-foot ceilings), wood-frame structure, encompassing approximately 1,143 square feet. The Shop Office building was constructed on a pier foundation, and the flooring consists of unfinished plywood. Carpeting on the second floor of the Shop Office is neither glued nor tacked down. Exterior siding on the Shop Office includes cedar shake shingles and wood paneling. The roofing material on the Shop Office building consists of asphalt shingles. Heat for the Shop Office building is provided by electric space heaters, and insulation was observed to be rolled fiberglass.

The Spar Shed building is a single-story (20-foot ceiling) wood-frame structure, encompassing approximately 4,140 square feet, and constructed with a concrete slab floor. The Spar Shed was built in 1998. The interior of the Spar Shed building consists primarily of painted plywood and particle board, with limited dry wall. The exterior of the Spar Shed is wood-sided and the roof is sheet metal. The Spar Shed is heated by radiant floor heat, which is produced by a waste oil-fueled boiler unit.

400 Commercial Street, Suite 404, Portland, Maine 04101, Tel (207) 772-2891, Fax (207) 772-3248
Pease International Tradeport, 112 Corporate Drive, Portsmouth, New Hampshire 03801, Tel (603) 436-1490
12 Kent Way, Suite 100, Byfield, Massachusetts 01922, Tel (978) 465-1822
2127 Hamilton Avenue, Hamilton, New Jersey 08619, Tel (609) 584-0090
60 Valley Street, Building F, Suite 106, Providence, Rhode Island 02909, Tel (401) 433-2160

www.ransomenv.com

ASBESTOS-CONTAINING MATERIALS

Ransom completed an asbestos survey at the Site on August 3, 2012. The asbestos survey was performed under the supervision of Ransom's U.S. EPA- and State of Maine-certified asbestos inspector. The scope of the ACM inspection included the identification and quantification of accessible suspect building materials associated with the Site buildings. Ransom identified and collected bulk samples of several building materials that had the potential to contain asbestos. These materials included asphalt shingles, drywall, joint compound, and sheet flooring associated with the Shop Office, and foam insulation, drywall, and joint compound associated with the Spar Shed. Asbestos-containing components may also be associated with the waste oil burner unit located in the Spar Shed. However, Ransom did not dismantle the heating system to identify potential asbestos-containing materials associated with the system.

Samples were analyzed by Optimum Analytical and Consulting, LLC (Optimum) of Salem, New Hampshire. Optimum is certified to perform bulk sample analysis by the State of Maine and the National Voluntary Laboratory Accreditation Program (NVLAP).

OSHA defines asbestos-containing material (ACM) as "any material containing more than one percent asbestos," while the MEDEP defines ACM as "greater than or equal to one percent asbestos." The EPA and MEDEP are responsible for developing and enforcing regulations necessary to protect the general public from airborne contaminants that are known to be hazardous to human health.

Laboratory analysis of the bulk samples submitted did not detect asbestos in any of the suspect material. The laboratory report is included as Attachment A.

LEAD-BASED PAINT

Concurrent with the asbestos survey, Ransom performed a lead-based paint (LBP) survey using a direct-reading x-ray fluorescence analyzer (XRF). The inspection included XRF readings from accessible walls, windows, doors, casings/jambs, and other miscellaneous painted surfaces associated with the Site buildings. Tested surfaces included the following:

<u>Shop Office Building</u>

- White metal double door (exterior);
- Gray metal double door (interior);
- Gray plywood flooring;
- White peg board;
- White wood ceiling paneling;
- White wood front door;
- Cream drywall (primer);
- White drywall;
- White iron support beam;

- Brown wooden window frames;
- Teal plywood flooring (second floor);
- White drywall (second floor);
- Gray plywood flooring (second floor);
- Tan wood siding (exterior);
- Cream rear door (exterior);
- Brown wooden window frame (exterior); and
- Gray wooden ramp (to boat docks).

Spar Shed Building

- Gray wooden Siding (exterior);
- White particle board (interior walls);
- Blue/green overspray on concrete floor; and
- White plywood (interior walls).

It should be noted that Ransom was unable to access or test the sheet metal roof of the Spar Shed building. Results of the LBP survey did not identify concentrations of lead in painted surfaces in excess of 0.00 milligrams per square centimeter (mg/cm^2).

OTHER POTENTIALLY HAZARDOUS MATERIALS AND COMPONENTS

Polychlorinated Biphenyls (PCBs)

PCB-containing oil is sometimes found in the dielectric fluid of older electrical transformers, including the capacitors associated with older fluorescent light fixture ballasts. Although electrical equipment which contains PCBs is required to be properly labeled indicating the presence of PCBs, this is not always the case. Ransom inspected light fixture ballasts throughout the Shop Office (light fixtures in the Spar Shed were not accessible) for the presence of PCB labeling. Our inventory identified 20 light ballasts in the Shop Office and 16 light ballasts in the Spar Shed. Ransom inspected two (2) representative fixtures in the Shop Office. One of inspected light ballasts had "No PCBs" labeling. Based on similar light fixture models observed in the Shop Office, it is assumed that approximately 10 fluorescent fixtures identified in the Site buildings contain PCBs.

Since not all of the fixtures at the Site were inspected, Ransom recommends that each ballast that will be impacted by future renovations, if applicable, be individually inspected for the "No PCBs" label, and if not present, the ballast should be disposed/recycled in accordance with U.S. EPA and State of Maine universal waste regulations. Since the cost of disposal (approximately $20 each) is significantly less than the cost of testing ($250), Ransom recommends that those ballasts that are not labeled be treated and disposed of as PCB-containing waste during future building renovations or demolition activities.

Mercury-Containing Components

Mercury-containing components such as fluorescent light tubes, cathode ray tubes (CRTs), mercury vapor lamps, and thermostat switches are classified as universal waste and are regulated by the U.S. EPA, under 40 CFR Parts 260–273. Classifying an item as a universal waste provides flexibility for its proper

management and can prevent the item from entering municipal or construction and demolition (C&D) waste streams. Ransom identified 104 fluorescent light tubes (FLTs) associated with the Site buildings. One thermostat was identified in connection with the Spar Shed building. Components known or assumed to contain mercury that will be impacted by future renovation or demolition activities should be removed and recycled in accordance with universal waste regulations.

Disposal costs associated with the universal wastes identified during this inspection are summarized in the following table:

Component	Estimated Quantity	Unit Cost	Total
Fluorescent fixture ballasts	10	$ 20 each	$ 200
Mercury-containing thermostats	1	$20 each	$20
Fluorescent lamps	104	$5 each	$520
		Subtotal:	**$740**
		Contingency (20%):	**$100**
TOTAL ESTIMATED OTHER HAZARDOUS MATERIALS REMOVAL COST:			**$840**

If you have any questions regarding the information in this report please do not hesitate to contact us.

Sincerely,

RANSOM CONSULTING, INC.

Erik P. Phenix, P.G.
Environmental Scientist

Peter J. Sherr, P.E.
Senior Project Manager

EPP/PJS: jsh
Attachments

ATTACHMENT A

Laboratory Analytical Report

Hazardous Building Materials Inventory
Belfast Boatyard
38 Waterville Road
Belfast, Maine

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

Erik Phenix
Ransom Environmental Consultants, Inc.
400 Commercial Street
Portland ME 04101

Project #:	111.06134.015
Laboratory Batch #:	1204207
Date Samples Received:	08/07/2012
Date Samples Analyzed:	08/09/2012
Date of Final Report:	08/10/2012

SAMPLE IDENTIFICATION:

Twenty One (21) Bulk samples from Belfast Boatyard - Front Street; 41 Front Street Belfast, ME; submitted by: Erik Phenix

These bulk samples were delivered to Optimum Analytical Consulting, LLC for asbestos content determination.

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-600/M4-82-020, EPA-600/ R-93-116) and the New York Department of Health Environmental Laboratory Approval Program (NYDOH-ELAP 198.1) with the exception of resinously bound materials (please refer to the comments at the end of this report). This report relates only to those samples actually analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites.

Quantification of asbestos content was determined by Calibrated Visual Estimation.

The EPA requires that friable samples with analytical results of 10% or less asbestos, by visual estimation, be treated as asbestos-containing material unless these quantities are verified using the point counting method. The point counting method is a systematic technique for estimating concentration, also using PLM. The point counting method, however, does not increase the analyst's ability to detect fibers. If you would like any of your friable samples with an asbestos content of less than 10% to be point counted, please contact our office. Point counting is not required for those samples in which no asbestos is detected during analysis by PLM.

In any given material, fibers with a small diameter (<0.25mm) may not be detected by the PLM method. Floor tile and other resinously bound material may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additional analytical methods may be required. Optimum recommends using Transmission Electron Microscopy (TEM) for a more definitive analysis.

New York state regulations require that all friable samples in which asbestos is detected be point counted (using the NYDOH-ELAP stratified point counting method). New York state regulations also require TEM confirmation of NOB (Non Organically Bound) samples found to have No Asbestos Detected by PLM. These regulations apply only to samples taken within the State of New York.

Optimum Analytical and Consulting, LLC will retain all samples for a minimum of three months. Further analysis or return of samples must be requested within this three month period to guarantee their availability.

Use of the NVLAP and AIHA Logo in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology or the American Industrial Hygiene Association.

This report is considered preliminary until signed by the Laboratory Director and Supervisor.

If you have any questions regarding this report, please do not hesitate to contact us.

NVLAP Lab ID#: 101433-0

Jamie L. Noel
Laboratory Director

Kristina Scaviola
Laboratory Supervisor

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc.	**ORDER #:**	1204207
ADDRESS:	400 Commercial Street	**PROJECT #:**	111.06134.015
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	08/03/2012
CONTACT:	Erik Phenix	**COLLECTED BY:**	Erik Phenix
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	08/07/2012
LOCATION:	Belfast Boatyard - Front Street; 41 Front Street Belfast, ME	**ANALYSIS DATE:**	08/09/2012
		REPORT DATE:	08/10/2012
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1204207-001 ASB-01A	Shop Office Asphalt Shingles, Black	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 35% 64%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-002 ASB-01B	Shop Office Asphalt Shingles, Black	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 35% 64%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-003 ASB-01C	Shop Office Asphalt Shingles, Black	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 35% 64%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-004 ASB-02A	Shop Office Drywall, White/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	10% 90%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-005 ASB-02B	Shop Office Drywall, White/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	10% 90%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-006 ASB-02C	Shop Office Drywall, White/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	10% 90%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-007 ASB-03A	Shop Office Joint Compound, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	5% 95%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc.	**ORDER #:**	1204207
ADDRESS:	400 Commercial Street	**PROJECT #:**	111.06134.015
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	08/03/2012
CONTACT:	Erik Phenix	**COLLECTED BY:**	Erik Phenix
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	08/07/2012
LOCATION:	Belfast Boatyard - Front Street; 41 Front Street Belfast, ME	**ANALYSIS DATE:**	08/09/2012
		REPORT DATE:	08/10/2012
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1204207-008 ASB-03B	Shop Office Joint Compound, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	5% 95%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-009 ASB-03C	Shop Office Joint Compound, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	5% 95%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-010 ASB-04A	Spar Shed Fiberglass Sheet Flooring, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 95% 4%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-011 ASB-04B	Spar Shed Fiberglass Sheet Flooring, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 95% 4%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-012 ASB-04C	Spar Shed Fiberglass Sheet Flooring, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 95% 4%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-013 ASB-05A	Spar Shed Spray Foam Insulation, Yellow	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-014 ASB-05B	Spar Shed Spray Foam Insulation, Yellow	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%

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BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc.	**ORDER #:**	1204207
ADDRESS:	400 Commercial Street	**PROJECT #:**	111.06134.015
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	08/03/2012
CONTACT:	Erik Phenix	**COLLECTED BY:**	Erik Phenix
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	08/07/2012
LOCATION:	Belfast Boatyard - Front Street; 41 Front Street Belfast, ME	**ANALYSIS DATE:**	08/09/2012
		REPORT DATE:	08/10/2012
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1204207-015 ASB-05C	Spar Shed Spray Foam Insulation, Yellow	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-016 ASB-06A	Spar Shed Drywall, Gray/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	10% 90%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-017 ASB-06B	Spar Shed Drywall, Gray/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	10% 90%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-018 ASB-06C	Spar Shed Drywall, Gray/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	10% 90%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-019 ASB-07A	Spar Shed Joint Compound, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-020 ASB-07B	Spar Shed Joint Compound, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1204207-021 ASB-07C	Spar Shed Joint Compound, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%

Approved Signatory: **Approved Signatory:**

NVLAP® Lab Code: 101433-0

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BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc.
ADDRESS:	400 Commercial Street
CITY / STATE / ZIP:	Portland ME 04101
CONTACT:	Erik Phenix
DESCRIPTION:	PLM Analysis
LOCATION:	Belfast Boatyard - Front Street; 41 Front Street Belfast, ME

ORDER #:	1204207
PROJECT #:	111.06134.015
DATE COLLECTED:	08/03/2012
COLLECTED BY:	Erik Phenix
DATE RECEIVED:	08/07/2012
ANALYSIS DATE:	08/09/2012
REPORT DATE:	08/10/2012
ANALYST:	Jamie Noel

4207

Client	Ransom Consulting, Inc. 400 Commercial St Portland ME 04101
Contact	Erik Phenix
Phone	207-772-2891
Project	Belfast Boatyard - Front Street
Location	41 Front Street, Belfast ME
Ransom Client	City of Belfast
Ransom Project #	111.06134.015
Sample Date	8/3/2012
Analysis	Bulk PLM/Gravimetric Reduction for asbestos
TAT	Standard Turnaround
Report Results to:	ephenix@ransomenv.com
PO	4428
Notes/Requests	Please analyze NOB samples via Gravimetric Reduction, per MEDEP regulations. Stop analysis on positive detection for all.

Sample ID	Location	Material
ASB-1A	Shop Office	Asphalt Shingles
ASB-1B	Shop Office	Asphalt Shingles
ASB-1C	Shop Office	Asphalt Shingles
ASB-2A	Shop Office	Drywall
ASB-2B	Shop Office	Drywall
ASB-2C	Shop Office	Drywall
ASB-3A	Shop Office	Joint Compound
ASB-3B	Shop Office	Joint Compound
ASB-3C	Shop Office	Joint Compound
ASB-4A	Shop Office	Fiberglass Sheet Flooring
ASB-4B	Shop Office	Fiberglass Sheet Flooring
ASB-4C	Shop Office	Fiberglass Sheet Flooring
ASB-5A	Spar Shed	Spray foam insulation
ASB-5B	Spar Shed	Spray foam insulation
ASB-5C	Spar Shed	Spray foam insulation
ASB-6A	Spar Shed	Drywall (bathroom)
ASB-6B	Spar Shed	Drywall (bathroom)
ASB-6C	Spar Shed	Drywall (bathroom)
ASB-7A	Spar Shed	Joint Compound (bathroom)
ASB-7B	Spar Shed	Joint Compound (bathroom)
ASB-7C	Spar Shed	Joint Compound (bathroom)

Erik Phenix 8/6/12

8/7/12