

**PHASE II ENVIRONMENTAL SITE ASSESSMENT
29 BELMONT AVENUE
(FORMER EXXON STATION)
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 R111.06134.006
November 26, 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 property located at 29 Belmont Avenue (Former Exxon) 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 currently encompasses approximately 0.76 acres of vacant, unimproved land, located along the northern side of Belmont Avenue (Route 3). The Site is bounded to the east by a small unnamed stream, which originates from wetland areas located to the northeast of the Site, and flows to the south, passing under Belmont Avenue. The adjacent property to the north of the Site was operated as a bulk fuel storage facility from the mid-1950s until 2004. Other surrounding properties to the east, west, and south are used for commercial and residential purposes. Municipal sewer and water are currently available to the Site and surrounding properties, and the Site is proposed to be redeveloped for commercial purposes.

The Site was originally developed in 1956 as a gasoline filling station and automobile repair facility, which operated until the Site was vacated in 1998. The Site was originally serviced by a private on-site septic system, and was connected to the municipal sewer system in the mid-1970s. The filling station included two generations of underground storage tank (UST) systems, which were used for storage and dispensing of gasoline. The original gasoline USTs were installed circa 1956 and were replaced in 1984 by a second set of USTs. The former filling station ceased operation in 1998, the second set of gasoline USTs were removed in 2002, and the former building was demolished in 2003.

A Phase I ESA, dated May 15, 2012, was completed by Ransom, which identified *Recognized Environmental Conditions (RECs)* associated with the Site's historic use as a gasoline filling station and automobile repair facility. Previous environmental investigations conducted at the Site documented residual petroleum contamination in connection with the former USTs. In addition, petroleum releases associated with the neighboring bulk fuel facility had the potential to adversely impact the environmental conditions of the Site. Based on the findings from the Phase I ESA, three areas of concern (AOCs) were identified and targeted for additional investigation through the completion of a Phase II ESA.

The objective of the Phase II ESA was to collect sufficient data to confirm or dismiss the *RECs* identified during the Phase I ESA, to identify potential exposure risks, and to evaluate the suitability of the Site for the proposed redevelopment use. The Phase II scope of work included the 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. The field portion of the Phase II ESA was completed in July and August 2012.

In general, the results of the Phase II ESA indicate that limited residual petroleum contamination, in connection with the former UST systems, remain at the Site. In addition, likely impacts from former automobile repair activities were also detected in one area of the Site, located on the northern side of the former gas station building. The majority of the petroleum contamination associated with the former UST systems was identified in the area of the former fuel dispensers, on the southern portion of the Site. Contaminant concentrations identified in soil samples collected from within the former gasoline dispenser areas did not exceed their applicable MEDEP Remedial Action Guidelines (RAGs) or Petroleum Remediation Guidelines for the proposed exposure/reuse scenarios. However, petroleum compounds and arsenic were detected in the soil sample collected from the northern side of the former Site building at

concentrations that exceed their applicable MEDEP RAGs and/or Petroleum Remediation Guidelines for “Outdoor Commercial Worker” and “Excavation/Construction Worker” exposure scenarios. COCs in soil in this area appear to extend to a depth of approximately 6 to 8 feet and were limited in lateral extent.

Residual contaminants of concern (COCs) appear to remain in groundwater in the area of the former fuel dispensers; however, no light non-aqueous phase liquid (LNAPL) or free-phase petroleum product was observed on the groundwater and the dissolved aqueous-phase contaminants do not appear to represent a significant exposure risk, based on the availability of municipal water to the Site and surrounding properties. In addition, residual petroleum contamination identified in soil and/or groundwater in the area of the former fuel dispensers appears to be contributing to elevated concentrations of vapor-phase contaminants. Several petroleum and chlorinated compounds likely related to former automobile repair operations were also detected in soil vapor sample collected from the area of the former gas station building. Certain petroleum compounds and/or fractions were detected in the soil vapor samples at concentrations exceeding their respective MEDEP Soil Gas Targets for commercial use, which may present a potential vapor intrusion risk to future buildings constructed at the Site.

Investigation of the apparent septic tank at the Site identified elevated concentrations of dissolved arsenic and lead in the liquid remaining in the tank. However, soil and groundwater results obtained from other portions of the property do not suggest that discharges from the septic system have significantly impacted environmental conditions at the Site. In addition, the findings from the current investigation suggest that the environmental condition of the Site has not been significantly impacted, as a result of operations and/or releases, associated with the former bulk fuel plant located to the north of the Site. Furthermore, the findings also suggest that residual COCs in groundwater at the Site are not significantly impacting the neighboring stream.

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;
2. A Soil and Groundwater Management Plan should be developed in order to insure proper handling and management of identified petroleum-impacted soils and groundwater, which may be encountered during redevelopment of the Site property.
3. The risk of human exposure to slightly elevated concentrations of limited petroleum compounds and metals (specifically arsenic) identified in soil and/or soil vapor at the Site 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 exposure to the identified contamination may include relatively simple 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); and

4. A vapor barrier and/or passive sub-slab depressurization system should also be incorporated into the design of any new proposed Site structures to mitigate impacts to indoor air quality from potential vapor intrusion of volatile petroleum-related compounds identified in soil vapor samples collected at the Site. Vapor mitigation systems are similar to and/or analogous to radon mitigation systems and are relatively easy to install and incorporate into the design of new building foundations.

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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 the results of a Phase II Environmental Site Assessment (ESA) performed for the property located at 29 Belmont Avenue (Route 3) 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. 17), dated July 19, 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 May 15, 2012, was completed by Ransom, which identified *Recognized Environmental Conditions (RECs)* associated with the Site's historic use as a gasoline filling station and automobile repair shop. The Phase I ESA also identified a former bulk fuel storage facility located adjacent to the Site, which had the potential to have impacted the environmental conditions at the Site. Based on the findings of the Phase I ESA, three (3) areas of concern (AOCs) were identified for additional environmental investigation. It is Ransom's understanding that the Site is proposed to be redeveloped for commercial use.

The purpose of the Phase II ESA was to evaluate each of the identified AOCs for the potential presence 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 encompasses approximately 0.76 acres, located along the northern side of Belmont Avenue (Route 3), and is identified by the City of Belfast Assessor's Office as Tax Map 5, Lot 16B. The Site currently exists as vacant, unimproved land. The Site is bounded to the east by a small unnamed stream, which originates from wetland areas located to the northeast of the Site, and flows to the south, passing under Belmont Avenue. Refer to the appended Figures 1 and 2, Site Location Map and Site Plan, for the layout of the Site and adjoining properties.

The Site was originally developed in 1956 as a gasoline filling station and automobile repair facility. The filling station and auto repair facility operated until the Site was vacated in 1998. The former Site building was located on the northwestern portion of the Site, and included two vehicle bays used for automobile repair. The vehicle bays reportedly included a hydraulic automobile hoist and a floor drain. The Site was originally serviced by a private on-site septic system, and was connected to the municipal sewer system in the mid-1970s.

The filling station included one 2,000-gallon, one 3,000-gallon, and one 4,000-gallon underground storage tanks (USTs) which were installed in 1956 and used for the storage of gasoline. The original USTs were replaced in 1984 with one 6,000-gallon UST and two 4,000-gallon USTs, which were used for the storage of gasoline. Waste oil generated during automotive repair activities was reportedly stored in an above ground storage tank (AST) on the northern side of the former building, and was periodically collected for off-site disposal. The former filling station ceased operation in 1998, the gasoline USTs were removed in 2002, and the former building was demolished in 2003.

The adjacent property to the north of the Site was operated as a bulk fuel storage facility from the mid-1950s until 2004. A release of approximately 3,200 gallons of fuel oil occurred at this facility in 1990. The release impacted soil conditions at the bulk fuel facility, as well as surface water bodies located adjacent to the Site.

2.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

A Phase I ESA was completed by Ransom on May 15, 2012. Both the MEDEP and US EPA have reviewed and approved the Phase I ESA and agree that the *Recognized Environmental Conditions (RECs)* listed in the report were appropriate and inclusive based on the data presented. The RECs identified in the Phase I ESA included the following:

1. Documented soil and groundwater contamination resulting from historic petroleum storage and releases at the Site and the neighboring bulk fuel facility. During UST replacement and removal operations, contamination in excess of historic cleanup guidelines was reportedly backfilled and/or left in place at the Site, as well as at the upgradient bulk fuel facility. Petroleum contaminants likely remaining at the Site and neighboring bulk fuel facility have the potential to represent an environmental risk to human health and the environment, depending on future Site use and/or redevelopment.
2. Historic automotive repair activities and the historic on-site septic system have the potential to have impacted the environmental conditions at the Site with waste petroleum products, parts cleaners, degreasers, and other automotive fluids. These contaminants may also represent a risk to human health and/or the environment, depending on future Site use and/or redevelopment.

Ransom recommended that a Phase II environmental investigation be performed to address the identified RECs.

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—Southeastern Portion of the Site (Former Gasoline USTs, Product Piping, & Fuel Dispensers)

AOC 1 encompasses the southeastern portion of the Site, which currently consists of a crushed-gravel lot with overgrown vegetated areas. AOC 1 includes the locations of former gasoline USTs, their product piping, and fuel dispensers. Based on available information, petroleum-impacted soils were identified in this area during UST removal activities and previous subsurface investigations performed at the Site.

The objective for investigating AOC 1 was to assess current soil, groundwater, and soil vapor conditions and evaluate potential exposure risks associated with reported residual contamination in this area. Specific contaminants of concern (COCs) associated with this AOC include petroleum compounds, volatile petroleum hydrocarbons (VPH) with their associated petroleum volatile organic compounds (VOCs), air-phase petroleum hydrocarbons (APH), and potentially lead (a metal). Due to the likely use and storage of leaded gasoline at the Site, lead scavenger compounds (1,2-dichloroethane, chlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, and 1,2-dibromoethane) are also considered COCs associated with this AOC.

AOC 2—Former Exxon Building (Former Automotive Repair Operations and Former Locations of Removed Hydraulic Lifts, Floor Drain, and Septic System)

AOC 2 encompasses the footprint and vicinity of the former Exxon Station building, which was located on the northwestern portion of the Site. The former building was utilized as a gas station and a full-service automobile repair facility. These activities likely included the use, storage, and possible disposal of petroleum products and hazardous materials such as chlorinated solvents and degreasers, antifreeze, lubricants, motor oils, waste oils, metals, and potentially PCB-containing hydraulic fluids.

The objective of investigating AOC 2 was to confirm or dismiss the presence of COCs associated with the former automotive repair activities, and to evaluate potential exposure risks associated with redevelopment of the property. Specific COCs associated with this AOC include petroleum, VPH, extractable petroleum hydrocarbons (EPH), polycyclic aromatic hydrocarbons (PAHs), VOCs (including petroleum and chlorinated solvents), APH, Metals, and polychlorinated biphenyls (PCBs). Several metals may be associated with waste oils or other waste fluids, which may have been generated or disposed of at the Site. Of these, the metals arsenic and lead have the potential to represent a greater exposure risk due to their relatively high toxicity characteristics. The remaining metals associated with waste oils or other waste fluids are not anticipated to represent a significant exposure risk, due to their relatively low toxicity characteristics.

AOC 3— Northern Portion of the Site (Adjacent to Former Boynton’s Bulk Fuel Facility)

AOC 3 encompasses the northern portion of the Site, which currently consists of a crushed-gravel lot with overgrown vegetated areas. This area of the Site has the potential to have been impacted by the former use of the northern adjoining property as a bulk fuel facility. Petroleum contaminants associated with documented and potentially undocumented releases from the neighboring site have the potential to have migrated onto the property via contaminated soil transport or contaminated groundwater migration, and may represent an exposure risk through direct contact with the contaminants. The objective of investigating this area was to confirm or dismiss the possibility of impacts from the adjacent property, and to identify potential exposure risks associated with redevelopment of the Site. Specific COCs associated with this AOC include EPH (i.e., heavier, less volatile petroleum products) and PAHs.

3.0 INVESTIGATION METHODOLOGY

The Phase II Investigation was designed to collect sufficient data to characterize the environmental condition of the Site in relation to current risk-based regulatory standards, identify potential exposure risks to current and future Site occupants, and evaluate the suitability of the Site for the proposed redevelopment.

The scope of work for the Phase II ESA was developed, based on the conceptual site model presented in the SSQAPP, and included the 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 sample locations are shown on Figure 2.

Soil Boring Advancement

On July 25, 2012, Ransom observed the advancement of eleven soil borings, identified as B101 through B111, 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 11.8 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.

The SSQAPP had proposed the advancement of ten soil borings to characterize Site conditions with respect to the *RECs* identified in the Phase I ESA. Upon initiation of the Phase II activities, a portion of the Site was observed to have caved in, revealing a concrete underground structure. This structure was presumed to have been the septic tank, historically associated with the former filling station building. In an effort to characterize conditions immediately downgradient of the apparent septic tank, an additional soil boring (SB111) was advanced at the location shown on Figure 2.

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. Select soil samples (generally representing surficial soil conditions) 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.

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 2.2. 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 soil boring B105 and submitted for laboratory analysis for quality assurance/quality control (QA/QC) protocols as outlined in the SSQAPP.

Temporary Groundwater Monitoring Well Installation

On July 25, 2012, soil borings B101, B102, B105, and B110 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 8 to 12 feet bgs. Each monitoring well was constructed using 1-inch-diameter Schedule 40 PVC well casing and factory-slotted screen. 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.

Groundwater Sampling and Analytical Testing

Groundwater samples collected from the monitoring wells 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 2.2.

Prior to sample collection, each well was developed using a peristaltic pump and dedicated tubing. The wells were developed 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 the low-flow sampling methods specified in the SSQAPP.

A duplicate groundwater sample (MW X) was collected from monitoring well MW103 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 sample 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.

Temporary Soil Vapor Point Installation

On July 25, 2012, Ransom attempted to install two temporary soil vapor points (SV101 and SV102) as described in the SSQAPP. Soil vapor point SV101 was installed and a soil vapor samples was successfully collected from this location. Soil vapor point SV102 was attempted at two locations within the footprint of the former filling station building. However, dense clay material encountered in the subsurface in this area restricted the flow of soil vapor; therefore, a soil vapor sample could not be collected from these two attempted soil vapor point locations on July 25, 2012.

In another attempt to install a soil vapor point within or near the footprint of the former filling station building, Ransom returned to the Site with EPI on August 2, 2012. This second attempt was successful and soil vapor point SV102 was installed and a soil vapor sample was subsequently collected for laboratory analysis. A duplicate soil vapor sample (SV103) was also collected from soil vapor point SV102 on August 2, 2012 and submitted for laboratory analysis for quality assurance/quality control (QA/QC) protocols, as outlined in the SSQAPP.

The locations of the soil vapor sample points are shown on Figure 2. The soil vapor points were installed utilizing a stainless steel sampling probe, which was advanced utilizing direct-push (i.e., GeoProbe®) drilling techniques. Soil vapor sample SV101 was collected at a depth of 3.5 to 4 feet below ground surface (bgs). Soil vapor samples SV102 and SV103 (duplicate) were collected from a depth of 2.5-3 feet bgs. 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.

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 before sampling. 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 40 milliliters per minute flow control valve. The samples were submitted to Alpha Analytical, Inc. (Alpha) of Mansfield, Massachusetts and analyzed for VOCs by U.S. EPA Method TO-15 and APH. Soil gas sampling field data sheets, providing additional information regarding the soil vapor samples, are included in Appendix B.

3.1 BACKGROUND SAMPLES

In order to compare site-specific results for metals and EPH with background environmental conditions in the vicinity of the Site, three surficial soil samples (zero to two feet bgs) were collected from areas at the perimeter of the Site, which were 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., shovels and pick axes) concurrent with the field activities on July 25, 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 and arsenic 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 and metals (specifically arsenic and lead).

3.2 AOC 1– SOUTHEASTERN PORTION OF THE SITE (FORMER GASOLINE USTs, PRODUCT PIPING, & FUEL DISPENSERS)

AOC 1 encompasses the areas formerly occupied by the USTs, product piping, and fuel dispensers that were removed from the Site in 2002. The characteristics and history of AOC 1 are described in Section 2.3. In order to characterize current soil and groundwater conditions in the area of the former fuel dispensers, soil boring B101 was advanced in this area and was subsequently converted to temporary monitoring well MW101. Soil boring B102 was advanced in the presumed downgradient direction from the former USTs and converted into temporary monitoring well MW102, in order to evaluate potential impacts to the unnamed stream and adjacent properties to the southeast. Soil borings B103 and B104 were advanced in the area of the former USTs to evaluate current soil conditions in these areas, and soil vapor sample SV101 was collected in this area to evaluate potential vapor intrusion into any future structures which may be constructed in this area.

Based on field screening results and observations, soil samples were collected from soil boring B101 at a depth of 4-6 feet bgs, and from soil boring B103 at a depth of 8-10 feet bgs, and submitted for laboratory analysis including VOCs, VPH, and lead. Groundwater samples were collected from temporary monitoring wells MW101 and MW102 and were also submitted for laboratory analysis of VOCs, VPH, and lead. The soil vapor sample, which was proposed for this AOC (SV101), was collected in the vicinity of the former fuel dispensers, as this was the area exhibiting the highest field screening values for VOCs. As specified in the SSQAPP, soil vapor sample SV101 was submitted for laboratory analysis of APH to evaluate potential impacts to soil vapor from the gasoline storage and dispensing activities formerly conducted in this area. Following the discovery of the apparent septic tank, Ransom, with consultation from the MEDEP, determined that analysis of VOCs in the soil vapor sample would also be appropriate to evaluate potential impacts to soil vapor from solvents and/or other potential volatile compounds, which may have been discharged to the septic tank and migrated with the perceived groundwater flow direction. Therefore, soil vapor sample SV101 was also submitted for laboratory analysis of VOCs using US EPA Method TO-15.

3.3 AOC 2– FORMER EXXON BUILDING (FORMER AUTOMOTIVE REPAIR OPERATIONS AND FORMER LOCATIONS OF REMOVED HYDRAULIC LIFTS, FLOOR DRAIN, AND SEPTIC SYSTEM)

AOC 2 encompasses the footprint and vicinity of the former Exxon station. Contaminant sources and exposure pathways associated with AOC 2 are described in Section 2.3. Soil borings B105 and B108 were installed within and in close proximity to the footprint of the former Exxon station building to evaluate potential impacts from floor drains and hydraulic lifts associated with the former facility operations. Soil boring B105 was converted to temporary monitoring well MW103 to evaluate potential impacts to groundwater from these features. Soil boring B106 was advanced to characterize potential impacts from the former septic system. Following discovery of the apparent septic tank, the location of boring B106 was modified from its previously proposed location in the SSQAPP to a position presumed to be downgradient from the observed septic tank. An additional soil boring (B111), which was not proposed in the SSQAPP, was also advanced in order to evaluate soil and groundwater conditions immediately downgradient of the apparent septic tank, and a grab sample (“Septic Tank”) was collected from the liquid observed in the apparent septic tank. Soil boring B107 was advanced on the north side of the former Exxon station building footprint to evaluate potential impacts from miscellaneous automobile parts and a waste oil tank, which were reportedly stored in this area during the operation of the former gas station.

Field screening results from AOC 2 did not suggest the presence of historic subsurface releases of OHM or elevated contaminant concentrations at depth. Therefore, surficial soil samples (0-2 feet bgs) were collected for laboratory analysis from soil borings B105, B107, and B108. A soil sample was collected below the water table from B106, at a depth of 10-12 feet bgs, and submitted for laboratory analysis for the purpose of evaluating potential impacts from the septic system. A groundwater sample was also collected from MW103 and submitted for laboratory analysis. In accordance with the contaminants of concern associated with AOC 2, soil and groundwater samples collected from this area were analyzed for VOCs, VPH, EPH, arsenic, and lead. Soil samples collected from this AOC were also analyzed for PCBs. A duplicate soil sample was collected from soil boring B105 and submitted for laboratory analysis in accordance with the quality control procedures outlined in the SSQAPP.

Soil vapor samples proposed within the footprint of the former building and initially attempted on July 25, 2012, were unsuccessful due to the presence of tight clay in the subsurface, which prevented the collection of soil vapor. Ransom returned to the Site with EPI on August 2, 2012, and advanced soil vapor point SV102 in the location shown on Figure 2. A soil vapor sample was collected from 2.5 to 3 feet bgs from this location, and submitted for laboratory analysis of VOCs and APH. A duplicate soil vapor sample (SV103) was also collected from this location for quality control purposes.

3.4 AOC 3– NORTHERN PORTION OF THE SITE (ADJACENT TO FORMER BOYNTON’S BULK FUEL FACILITY)

AOC 3 consists of the northern portion of the Site property, which is located adjacent to a former bulk fuel facility. 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, two soil borings (B109 and B110) were completed in this area. Soil boring B110 was converted to temporary monitoring well MW104 to evaluate groundwater conditions and the potential for dissolved-phase contaminant migration onto the Site from the neighboring property. Based on field screening results and observations, a surficial soil sample was collected from B110, and a groundwater sample was collected from MW104. Soil and groundwater samples collected from this area were submitted for laboratory analysis of EPH.

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 Soil Contaminated with Hazardous Substances;
- Remediation Guidelines for Petroleum Contaminated Sites in Maine; and
- MEDEP Bureau of Remediation Vapor Intrusion Evaluation Guidance.

Soil

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

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 also 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 (MECDC), 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. The “DRAFT Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances,” dated January 11, 2012, have also been included in Table 4 for comparison purposes. MEDEP provides concentrations of various soil gas 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 proposed to be redeveloped for commercial use, Ransom calculated applicable Soil Gas Target concentrations for commercial scenarios using the attenuation factors and Indoor Air Targets 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. In accordance with the DRAFT RAGs (MEDEP, January 2012), Soil Gas Targets were calculated by multiplying the Indoor Air Targets listed in the DRAFT RAGs by an attenuation factor of 10. For the purposes of comparing to the Vapor Intrusion Evaluation Guidance, Soil Gas Targets were calculated by multiplying the identified Indoor Air Targets by an attenuation factor of 50. Soil Gas Targets calculated using both methods are shown on Table 4.

4.1 GEOLOGY AND HYDROGEOLOGY

Soils encountered at the Site were generally characterized by approximately 2 feet of sand and gravel fill material, which was underlain by native glacial-marine clay. The glacial-marine clay material extended to depths ranging from approximately 8 to 12 feet below ground surface (bgs), and in some areas appeared to be underlain by glacial till material. Sand and gravel fill material, likely associated with the former UST removals, was encountered in soil borings B103, B104, B106, and B111 at depths ranging from approximately 4 to 12 feet bgs. Apparent groundwater was encountered in the soil borings at highly variable depths, ranging from approximately 4 to 12 feet bgs. The wide range in apparent groundwater depths is likely attributable to the presence or absence of the glacial-marine clay, which restricted the movement/availability of groundwater when present.

Field screening of the soil samples collected from the soil borings generally did not indicate organic vapor concentrations in excess of background with the following exceptions:

- Organic vapors were detected at a concentration of 256 parts per million by volume (ppmv) in the soil sample collected from soil boring B101 at a depth of 4 to 6 feet bgs. Soil collected from this interval was subsequently submitted for laboratory analysis (refer to Table 2).
- Organic vapors were detected at concentrations of 4.0, 6.2, and 6.8 ppmv in soil boring B107 at depths ranging from 0 to 8 feet bgs. Surficial soils in the area of this soil boring exhibited a waste oil odor. Soil from the 0 to 2-foot interval in soil boring B107 was subsequently submitted for laboratory analysis (refer to Table 2).

No evidence of “petroleum-saturated soils” or evidence of “free petroleum product” contamination was observed in soils or groundwater encountered during soil boring advancement or gauging of temporary groundwater monitoring wells. Refer to the soil boring logs included in Appendix A for additional information regarding materials and subsurface conditions encountered during the soil boring program.

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 4.02 to 5.04 feet bgs in monitoring wells MW101, MW102, and MW104. Groundwater was not initially observed to accumulate in MW103, and only a small amount of water was observed in this well after the well was allowed to equilibrate for a period of time. It is Ransom's opinion that the groundwater level recorded in monitoring well MW103 was not representative of the actual groundwater elevation; therefore, water level data from this well was not used for groundwater flow direction calculations.

Based on the depth to water recorded in wells MW101, MW102, and MW104, 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 south. 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	5.04	101.03	95.99
MW102	4.02	100.05	96.03
MW104	4.16	101.59	97.43

Notes:

1. Relative groundwater elevation survey and groundwater measurements conducted by Ransom on July 25, 2012.
2. Elevations are relative to arbitrary benchmark 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 in the vicinity of the Site range from 12 milligrams per kilogram (mg/kg) to 23 mg/kg. Elevated levels of naturally occurring arsenic are common in Maine soils. Background concentrations of lead detected in these samples were observed to range from 68 to 146 mg/kg. For the purposes of this Phase II Investigation, arsenic and lead concentrations in soil samples collected at the Site are considered elevated if they exceed the site-specific background concentrations detected in samples BK-1, BK-2, and BK-3 and/or the published state-wide background concentrations for these compounds.

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) indicated that target PAHs including benzo(b)fluoranthene, chrysene, fluoranthene, and pyrene were detected at estimated concentrations ranging from 0.185 to 0.293 mg/kg. Additionally, the EPH fractions C₁₉–C₃₆ aliphatics and C₁₁–C₂₂ aromatics were detected at estimated concentrations of 10.1 and 16.7 mg/kg, respectively, in the surficial background soil sample (BK-1). These target PAHs and EPH fractions are presumed to be characteristic of urban fill material in the area of the Site. 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– SOUTHEASTERN PORTION OF THE SITE (FORMER GASOLINE USTs, PRODUCT PIPING, & FUEL DISPENSERS)

Soil Sample Analytical Results

Volatile Organic Compounds

As shown in Table 2, VOCs including benzene, ethylbenzene, methyl tert-butyl ether, naphthalene, toluene, and total xylenes were detected at concentrations ranging from 0.147 to 0.916 mg/kg in the soil sample collected from soil boring B101 at a depth of 4 to 6 feet bgs. These concentrations did not exceed the respective MEDEP RAGs for “Outdoor Commercial Worker” or “Excavation/Construction Worker” exposure scenarios. These volatile compounds likely represent residual contamination associated with the former on-site gasoline USTs.

VOCs were not detected above the laboratory detection limit in the soil sample collected from B103 at a depth of 8 to 10 feet bgs.

Volatile Petroleum Hydrocarbons

VPH fractions, including C₅–C₈ aliphatics, C₉–C₁₂ aliphatics, and C₉–C₁₀ aromatics were detected in the soil sample submitted for laboratory analysis from B101 at concentrations ranging from 8.15 mg/kg to 19.8 mg/kg. The VPH fraction C₉–C₁₀ aromatics were detected in the soil sample submitted for laboratory analysis from B103 at a concentration of 0.732 mg/kg. These concentrations are below the respective MEDEP Petroleum Remediation Guidelines for both “Outdoor Commercial Worker” and “Excavation/Construction Worker” exposure scenarios. These petroleum fractions likely represent residual contamination associated with the former on-site gasoline USTs.

Metals

Lead was detected in the soil samples submitted for laboratory analysis from B101 and B103 at concentrations of 12 mg/kg and 6 mg/kg, respectively. These concentrations are below the site-specific background concentrations for lead and its corresponding MEDEP RAG.

Groundwater Sample Analytical Results

Volatile Organic Compounds

As shown in Table 3, petroleum-related VOCs including benzene, ethylbenzene, naphthalene, toluene, and total xylenes were detected in the groundwater sample collected from monitoring well MW101 at concentrations ranging from 5 to 184 micrograms per liter ($\mu\text{g/l}$). The concentrations of benzene, ethylbenzene, and naphthalene detected in this sample exceed their respective MECDC MEGs for drinking water and/or the MEDEP's State-wide Groundwater and Drinking Water Petroleum Remediation Guidelines; however, because municipal water is available to the Site, ingestion of contaminated groundwater is not anticipated to represent an exposure route for these contaminants. Due to the shallow groundwater table at the Site, the contaminated groundwater also has the potential to represent a direct contact risk to future construction workers. However, considering the brief timeframe for which workers would be exposed, and the relatively volatile nature of the petroleum contaminants, the contaminated groundwater is not expected to represent a significant or chronic health risk for future construction workers.

The groundwater sample collected from MW102 exhibited the VOCs methyl-tert butyl ether and toluene at concentrations of 3 $\mu\text{g/l}$ and 0.6 $\mu\text{g/l}$, respectively, well below their corresponding MECDC MEGs and/or MEDEP's Petroleum Remediation Guidelines.

Volatile Petroleum Hydrocarbons

The VPH fractions $\text{C}_5\text{--}\text{C}_8$ aliphatics, $\text{C}_9\text{--}\text{C}_{12}$ aliphatics, and $\text{C}_9\text{--}\text{C}_{10}$ aromatics were detected in the groundwater sample collected from MW101 at concentrations ranging from 323 to 532 $\mu\text{g/l}$. These concentrations exceed their respective MECDC MEGs and/or MEDEP's State-wide Groundwater and Drinking Water Petroleum Remediation Guidelines; however, because municipal water is available to the Site, ingestion of contaminated groundwater is not anticipated to represent an exposure route for these contaminants. $\text{C}_9\text{--}\text{C}_{10}$ aromatics were detected at a concentration of 12 $\mu\text{g/l}$ in the groundwater sample collected from MW102. This concentration does not exceed the remediation guidelines.

Metals

Lead was detected at a concentration of 6 $\mu\text{g/l}$ in the groundwater sample collected from MW101, which is below its respective remediation guidelines. Lead was not detected above the laboratory detection limit in the groundwater sample collected from MW102.

Soil Vapor Sample Analytical Results

Volatile Organic Compounds

As shown in Table 4, the following VOCs: benzene, dichlorodifluoromethane, ethylbenzene, styrene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, xylenes (total) and 1,3-butadiene, were detected in the soil vapor sample collected from SV101 at concentrations ranging from 3.90 to 1,760 micrograms per cubic meter ($\mu\text{g/m}^3$). The concentration of ethylbenzene detected in this sample (304 $\mu\text{g/m}^3$) exceeds its corresponding Soil Gas Target for commercial use.

Air Petroleum Hydrocarbons

APH fractions including C₅–C₈ aliphatics, C₉–C₁₂ aliphatics, and C₉–C₁₀ aromatics were detected in the soil vapor sample collected from SV101 at concentrations ranging from 13,000 to 390,000 µg/m³. These concentrations exceed their corresponding Soil Gas Targets for commercial use. The petroleum compounds and fractions detected in soil vapor samples collected from SV101 are anticipated to be indicative of residual petroleum contamination in the area of the former fuel dispensers.

Discussion of Key AOC 1 Findings

Laboratory analytical results and field screening activities conducted in AOC 1 during this investigation indicate the presence of residual petroleum contamination in soil and groundwater, primarily in the area of the former fuel dispensers. Contaminant concentrations in soil were below the risk-based MEDEP RAGs and Petroleum Cleanup Guidelines for each of the proposed reuse/exposure scenarios. The residual soil contamination was generally observed at depths greater than 2 feet bgs, and does not appear to represent a direct contact exposure risk for future Site occupants or visitors. The residual petroleum contamination, presumably a result of leaks or releases associated with the former UST systems, appears to be limited and does not appear to be wide-spread throughout the soil conditions observed in AOC 1.

Contaminant concentrations detected in the groundwater in the area of the former fuel dispensers exceeded the MECDC MEGs and/or State-wide Groundwater and Drinking Water Petroleum Remediation Guidelines for several petroleum compounds and fractions. Groundwater is estimated or presumed to be flowing to the south. Therefore, dissolved-phase contaminants from the Site have the potential to migrate onto the neighboring properties to the south; specifically the Belmont Avenue right-of-way. However, the closest occupied structure to the south of the Site is located approximately 150 feet from the source area. According to previous research commissioned by the MEDEP (GEI Consultants, Inc. 2012), structures located at distances greater than 30 feet from the source area are not expected to experience vapor intrusion due to attenuation of contaminant concentrations. Considering the distance from the source area, the dissolved-phase contaminants are not anticipated to represent a vapor intrusion risk to occupied structures to the south of the Site. Furthermore, because municipal water is available to the Site and surrounding properties, ingestion of contaminated groundwater does not represent an exposure risk. Analytical results from monitoring well MW102 also suggest that residual dissolved-phase petroleum contaminants from the Site are not likely to have adversely impacted the neighboring stream.

Residual petroleum contamination in the area of the former fuel dispensers appears to be impacting soil vapor conditions in this area of the Site. Several petroleum constituents, including ethylbenzene and APH fractions, were detected at concentrations in excess of their calculated Soil Gas Targets for commercial scenarios. These results suggest that the residual petroleum contamination in this area may present a vapor intrusion risk to inhabited structures constructed at the Site in the future.

4.4 AOC 2– FORMER EXXON BUILDING (FORMER AUTOMOTIVE REPAIR OPERATIONS AND FORMER LOCATIONS OF REMOVED HYDRAULIC LIFTS, FLOOR DRAIN, AND SEPTIC SYSTEM)

Soil Sample Analytical Results

Volatile Organic Compounds

As shown in Table 2, VOCs including sec-butylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes (total) were detected in the surficial soil sample collected from SS107 at concentrations ranging from 0.109 to 2.54 mg/kg. However, these concentrations did not exceed their respective MEDEP RAGs or Petroleum Remediation Guidelines for “Outdoor Commercial Worker” or “Excavation/Construction Worker” exposure scenarios. Chloromethane was detected in the soil sample collected from B106 at a concentration of 0.242 mg/kg; however, this result was flagged with a note indicating that this compound was also detected in the laboratory blank. VOCs were not detected in the surficial soil samples collected from B105 or B108.

Volatile Petroleum Hydrocarbons

The VPH fractions C₉–C₁₂ aliphatics and C₉–C₁₀ aromatics were detected in the surficial soil sample collected from B107 at concentrations of 46.8 and 58 mg/kg, respectively. These concentrations do not exceed their corresponding MEDEP Petroleum Remediation Guidelines for “Outdoor Commercial Worker” or “Excavation/Construction Worker” exposure scenarios. VPH fractions were not detected above the laboratory detection limit in the remaining soil samples collected from AOC 2.

Extractable Petroleum Hydrocarbons

EPH fractions, including C₁₉–C₃₆ aliphatics and C₁₁–C₂₂ aromatics were detected in the surficial soil samples collected from B105, B107, and B108 at concentrations ranging from 8.44 to 1,570 mg/kg. With the exception of B107, the EPH concentrations detected in the surficial soil samples were below the site-specific background concentrations. The concentrations of EPH fractions detected in the surficial soil sample collected from B107 were significantly elevated in comparison to site-specific background concentrations. Although the EPH concentrations did not exceed the “Outdoor Commercial Worker” or “Excavation/Construction Worker” exposure scenarios, the concentration of C₁₁–C₂₂ aromatics detected in the soil sample collected from B107 (949 mg/kg) exceeds its corresponding MEDEP Petroleum Remediation Guidelines for the “Residential” exposure scenario; however, the site is currently proposed to be redeveloped for commercial purposes at this time. EPH fractions were not detected above the laboratory detection limit in the soil sample collected from B106.

Target Polycyclic Aromatic Hydrocarbons

Several PAH compounds were detected in the surficial soil sample collected from B107. These PAH compounds included benzo(ghi)perylene, benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, phenanthrene, and pyrene, which were detected at concentrations ranging from 1.42 to 4.35 mg/kg. The concentration of benzo(a)pyrene detected in the surficial soil sample collected from B107 (estimated 2.66 mg/kg) exceeds its corresponding MEDEP Petroleum Remediation Guidelines for both the “Outdoor Commercial Worker” and

“Excavation/Construction Worker” exposure scenarios. The concentration of benzo(b)fluoranthene detected in this sample exceeds its respective MEDEP “Outdoor Commercial Worker” guidelines.

PAH compounds were not detected in the soil samples collected from B105, B106, or B108.

Metals

Arsenic and lead were detected at concentrations of 16,100 mg/kg and 214 mg/kg, respectively, in the surficial soil sample collected from B107. These concentrations greatly exceed the site-specific background concentrations for these metals, and the arsenic concentration in this sample exceeds its corresponding MEDEP RAGs for both the “Outdoor Commercial Worker” and “Excavation/Construction Worker” exposure scenarios.

Arsenic and lead concentrations detected in soil samples collected from B105, B106, and B108 were generally consistent with the site-specific background concentrations for these metals.

Polychlorinated Biphenyls

As shown in Table 2, PCBs were not detected above the laboratory detection limits in the soil samples collected from soil borings B105, B106, B107, or B108.

Groundwater Sample Analytical Results

As shown in Table 3, VOCs, VPH fractions, EPH fractions, target PAHs, and metals (arsenic and lead) were not detected at concentrations above their laboratory detection limits in the groundwater sample collected from monitoring well MW103.

The VPH fraction, C₉–C₁₀ aromatics, was detected at a concentration of 11 µg/l in the grab sample collected from the liquid observed in the apparent septic tank. Arsenic and lead were also detected in this sample at concentrations of 30 µg/l and 54 µg/l, respectively. The concentrations of lead and arsenic detected in the liquid within the septic tank exceed their MECDC MEGs and/or MEDEP’s State-wide Groundwater and Drinking Water Petroleum Remediation Guidelines, and appear to be elevated in comparison to concentrations of these metals observed in groundwater at other areas of the Site.

Soil Vapor Sample Analytical Results

Volatile Organic Compounds

As shown in Table 4, VOCs including benzene, chloroethane, chloroform, chloromethane, dichlorodifluoromethane, ethylbenzene, styrene, tetrachloroethene, trichloroethene, toluene, trichlorofluoromethane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, xylenes (total), and 1,3-butadiene were detected in the soil vapor sample collected from SV102 at concentrations ranging from 0.522 to 62.6 µg/m³. The concentration of 1,3-butadiene detected in this sample (62.6 µg/m³) exceeds its corresponding MEDEP Soil Gas Target for commercial use.

Air Petroleum Hydrocarbons

The APH fractions C₅–C₈ aliphatics and C₉–C₁₂ aliphatics were detected in soil vapor sample SV102 at concentrations of 2,900 µg/m³ and 610 µg/m³, respectively. These concentrations do not exceed their respective MEDEP Soil Gas Targets for commercial scenarios.

Discussion of Key AOC 2 Findings

Soil and groundwater samples collected from within the former building footprint (B105/MW103) and on the southern side of the former building (B108) did not identify COCs associated with the former automobile repair operations, hydraulic lift, or floor drain(s). However, numerous petroleum compounds and petroleum fractions were detected in the surficial soil sample collected on the northern side of the former gas station building (B107). The concentrations of two PAH compounds and arsenic detected in this soil sample exceed their respective site-specific background concentrations, as well as the MEDEP's RAGs and Petroleum Remediation Guidelines for "Outdoor Commercial Worker" scenarios. Field screening results suggest that COCs are limited and extend to depths of approximately 6 to 8 feet bgs in this location. Contaminants in this area are presumed to be related to small leaks or spills associated with storage of automobile parts and/or possibly a waste oil tank in this area during operation of the former gas station.

Laboratory analysis and field screening results from borings B106 and B111 did not identify COCs in connection with the on-site septic tank. Slightly elevated concentrations of arsenic and lead, as well as a trace concentration of VPH, was detected in the grab sample collected from the liquid within the septic tank. However, groundwater results obtained from other portions of the property do not suggest that discharges from the septic system have significantly impacted groundwater conditions at the Site.

With the possible exception of the area of B107, as noted above, soil and groundwater results obtained from AOC 2 did not indicate a source area for contaminants associated with the former automobile repair operations. However, several petroleum and chlorinated compounds were detected in the soil vapor sample (SV102) collected from AOC 2. The concentration of 1,3-butadiene detected in SV102 exceeded its calculated Soil Gas Target for commercial scenarios. The field parameters, including oxygen and carbon dioxide concentrations, which were recorded, prior to collection of soil vapor sample SV102, and are shown on the field data sheets included in Appendix B, are consistent with ambient air conditions. This information suggests that soil vapor sample SV102 may have been influenced by ambient air due to a faulty seal or excessively porous soils above the sample depth. However, the presence of chlorinate compounds within the sample are not consistent with ambient air conditions, and appear to be representative of soil vapor contaminants related to the historic automobile repair operations at the Site.

4.5 AOC 3– NORTHERN PORTION OF THE SITE (ADJACENT TO FORMER BOYNTON'S BULK FUEL FACILITY)

Soil Sample Analytical Results

Extractable Petroleum Hydrocarbons

Two EPH fractions (C₁₉–C₃₆ aliphatics and C₁₁–C₂₂ aromatics) were detected in the surficial soil sample collected from B110 at concentrations of 38.6 and 11.1 mg/kg, respectively, which are below their respective MEDEP Petroleum Remediation Guidelines for "Outdoor Commercial Worker" or "Excavation/Construction Worker" exposure scenarios. C₉–C₁₈ aliphatics was not

detected at a concentration above its corresponding laboratory detection limit in the soil sample collected from B110.

Target Polycyclic Aromatic Hydrocarbons

No target PAH compounds were detected above their corresponding laboratory detection limits in the surficial soil sample collected from soil boring B110.

Groundwater Sample Analytical Results

As shown in Table 3, the EPH fraction C₁₉–C₃₆ aliphatics was detected in the groundwater sample collected from MW104 at an estimated concentration of 51 µg/l. This concentration does not exceed its respective MECDC MEG or MEDEP State-wide Groundwater and Drinking Water Petroleum Remediation Guideline for petroleum-related compounds.

Discussion of Key AOC 3 Findings

Soil and groundwater sample results obtained from AOC 3 suggest that the environmental condition of the Site has not been significantly impacted, as a result of operations and/or releases, associated with the former bulk fuel plant located to the north of the Site.

5.0 QUALITY ANALYSIS/QUALITY CONTROL

The contracted laboratory, Analytics Environmental Laboratory (Analytics) of Portsmouth, New Hampshire, provided Level II analytical data according to US EPA protocols and 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:

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

One duplicate soil, groundwater, and soil vapor sample were collected for laboratory analysis. The duplicate soil sample (B10X) was collected from surficial soil sample B105 (0 to 2 feet) and was submitted for laboratory analysis of VOCs, VPH, EPH, PAHs, PCBs, and metals (arsenic and lead). The duplicate groundwater sample (MW X) was collected from temporary monitoring well MW103 and was submitted for laboratory analysis of VOCs, VPH, EPH, PAHs, and metals (arsenic and lead). The duplicate soil vapor sample (SV103) was collected from temporary soil vapor point SV102 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 (B105)

- VOCs were not detected in the B105 soil sample or its duplicate soil sample (B10X) above their respective laboratory reporting limits; therefore, no RPD was applicable.
- Target PAH compounds were not detected in the B105 soil sample or its duplicate soil sample (B10X) above their respective laboratory reporting limits; therefore, no RPD was applicable.
- VPH fractions were not detected in the B105 soil sample or its duplicate soil sample (B10X) above their respective laboratory reporting limits; therefore, no RPD was applicable.
- Two EPH fractions (C₁₉ to C₃₆ aliphatics and C₁₁ to C₂₂ aromatics) were detected in the B105 soil sample and its duplicate soil sample (SS10X). However, these fractions were not detected at concentrations greater than five times their PQL; therefore, no RPD was calculated.
- The metals arsenic and lead were detected in the B105 soil sample and its duplicate soil sample (B10X) at concentrations greater than five times their PQL for the compounds. The RPDs for these metals were below their 35 percent guideline; therefore, the precision of these sample results are acceptable.
- PCBs were not detected in the in the B105 soil sample or its duplicate soil sample (B10X) above their respective laboratory reporting limits; therefore, no RPD was applicable.

Groundwater Sample (MW103)

- VOCs were not detected in the MW103 groundwater sample or its duplicate groundwater sample (MW X) above their respective laboratory reporting limits; therefore, no RPD was applicable.
- Target PAHs were not detected in the MW103 groundwater sample or its duplicate groundwater sample (MW X) above their respective laboratory reporting limits; therefore, no RPD was applicable.
- VPH fractions were not detected in the MW103 groundwater sample or its duplicate groundwater sample (MW X) above their respective laboratory reporting limits; therefore, no RPD was applicable.
- EPH fractions were not detected in the MW103 groundwater sample or its duplicate groundwater sample (MW X) above their respective laboratory reporting limits; therefore, no RPD was applicable.
- Metals (arsenic and lead) were not detected in the MW103 groundwater sample or its duplicate groundwater sample (MW X) above their respective laboratory reporting limits; therefore, no RPD was applicable.

Soil Vapor Sample (SV101)

- Sixteen (16) VOCs were detected in the SV102 soil vapor sample and its duplicate soil vapor sample (SV103). Of these compounds, eight (8) had concentrations greater than five times the PQL. The RPDs for these eight VOCs were below their 35 percent guideline; therefore, the precision of these sample results are acceptable.
- Two VPH fractions (C₅ to C₈ aliphatics and C₉ to C₁₂ aliphatics) were detected in the soil vapor sample SV102 and its duplicate soil vapor sample (SV103) at concentrations greater than five times the PQL. The RPD for these VPH fractions were below the 35 percent guideline; therefore, the precision of these sample results 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, except the laboratory blank analyzed on 8/6/2012 for soil samples, which had chloromethane detected below the quantitation limit; the soil sample collected from B106 had chloromethane detected. The sample was reanalyzed with similar results. The chloromethane result was qualified with a "B" flag, indicating that the compound was detected in the laboratory blank.

Volatile Petroleum Hydrocarbons

Samples B107 and MW101 required dilution due to concentrations of target analytes that exceeded the calibration range of the instrument.

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

Extractable Petroleum Hydrocarbons & Polycyclic Aromatic Hydrocarbons

Sample B107 was analyzed at a dilution due to concentrations of target analytes that exceeded the calibration range of the instrument.

There were no other bias issues identified by the laboratory in the soil and groundwater samples collected and analyzed for EPH 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. Therefore, it 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

Ransom completed a Phase II ESA at the Site in July and August 2012. The objective of the Phase II ESA was to collect sufficient data to confirm or dismiss the *RECs* identified during the Phase I ESA, to identify potential exposure risks, and to evaluate the suitability of the Site for the proposed redevelopment use. The Phase II scope of work included the 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.

In general, the results of the Phase II ESA indicate that limited residual petroleum contamination, in connection with the former UST systems, remain at the Site. In addition, likely impacts from former automobile repair activities were also detected in one area of the Site, located on the northern side of the former gas station building. The majority of the petroleum contamination associated with the former UST systems was identified in the area of the former fuel dispensers, on the southern portion of the Site. Contaminant concentrations identified in soil samples collected from within the former gasoline dispenser areas did not exceed their applicable MEDEP Remedial Action Guidelines (RAGs) or Petroleum Remediation Guidelines for the proposed exposure/reuse scenarios. However, petroleum compounds and arsenic were detected in the soil sample collected from the northern side of the former Site building at concentrations that exceed their applicable MEDEP RAGs and/or Petroleum Remediation Guidelines for “Outdoor Commercial Worker” and “Excavation/Construction Worker” exposure scenarios. COCs in soil in this area appear to extend to a depth of approximately 6 to 8 feet and were limited in lateral extent.

Residual contaminants of concern (COCs) appear to remain in groundwater in the area of the former fuel dispensers; however, no light non-aqueous phase liquid (LNAPL) or free-phase petroleum product was observed on the groundwater and the dissolved aqueous-phase contaminants do not appear to represent a significant exposure risk, based on the availability of municipal water to the Site and surrounding properties. Residual petroleum contamination identified in soil and/or groundwater in the area of the former fuel dispensers appears to be contributing to elevated concentrations of vapor-phase contaminants.

Several petroleum and chlorinated compounds likely related to former automobile repair operations were also detected in soil vapor sample collected from the area of the former gas station building. Certain petroleum compounds and/or fractions were detected in the soil vapor samples at concentrations exceeding their respective MEDEP Soil Gas Targets for commercial use, which may present a potential vapor intrusion risk to future buildings constructed at the Site. Considering the distance of the neighboring structures, contaminant migration in the dissolved-phase is not expected to present a vapor intrusion risk to nearby properties surrounding the Site.

Investigation of the apparent septic tank at the Site identified elevated concentrations of dissolved arsenic and lead in the liquid remaining in the tank. However, soil and groundwater results obtained from other portions of the property do not suggest that discharges from the septic system have significantly impacted environmental conditions at the Site. In addition, the findings from the current investigation suggest that the environmental condition of the Site has not been significantly impacted, as a result of operations and/or releases, associated with the former bulk fuel plant located to the north of the Site. Furthermore, the findings also suggest that residual COCs in groundwater at the Site are not significantly impacting the neighboring stream.

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;
2. A Soil and Groundwater Management Plan should be developed in order to insure proper handling and management of identified petroleum-impacted soils and groundwater, which may be encountered during redevelopment of the Site property.
3. The risk of human exposure to slightly elevated concentrations of limited petroleum compounds and metals (specifically arsenic) identified in soil and/or soil vapor at the Site 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 exposure to the identified contamination may include relatively simple 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); and
4. A vapor barrier and/or passive sub-slab depressurization system should also be incorporated into the design of any new proposed Site structures to mitigate impacts to indoor air quality from potential vapor intrusion of volatile petroleum-related compounds identified in soil vapor samples collected at the Site. Vapor mitigation systems are similar and/or analogous to radon mitigation systems and are relatively easy to install and incorporate into the design of new building foundations.

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 Sites 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.; May 15, 2012; Phase I Environmental Site Assessment, 29 Belmont Avenue (Former Exxon Station), Belfast, Maine.
8. Ransom Consulting Inc.; July 19, 2012; Site-Specific Quality Assurance Project Plan Addendum No. 17, Phase II Environmental Site Assessment, 29 Belmont Avenue (Former Exxon Station), Belfast, Maine.
9. Ransom Environmental Consultants Inc.; August 27, 2008; State of Maine Brownfields Assessment Projects Generic Quality Assurance Project Plan (QAPP) RFA #08243.
10. GEI Consultants, Inc.; January 2012; Summary Report, State of Maine, Vapor Intrusion Study for Petroleum Sites.

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:

Eriksen P. Phenix, C.G.
Project Geologist/Primary Author

Peter J. Sherr, P.E.
Senior Project Manager/Belfast Brownfields Program Manager

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
29 Belmont Avenue (Former Exxon Station)
Belfast, Maine

Boring ID	Sample Depth (ft.)	Arsenic	Lead
		mg/kg	
B101	0-2	18	27
B102	0-2	21	17
B103	0-2	ND	39
B104	0-2	39	25
B105	0-2	23	ND
B106	0-2	17	28
B107	0-2	82	643
B108	0-2	17	21
B109	0-2	20	20
B110	0-2	20	18
BK1	0-2	25	64
BK2	0-2	29	100
BK3	0-2	21	90

NOTES:

mg/kg = milligrams per kilogram

Soil samples screened for metals using a Innov-X XRF in accordance with MEDEP's "*Protocol for Collecting Data Using a Field Portable X-Ray Fluorescence Spectrometer For Certain Metals In Solid Media,*" SOP: DR#015, Rev. 1, July 26, 2001.

ND = Not detected above instrument detection limit

Table 2: Soil Sample Laboratory Analytical Results
29 Belmont Avenue (Former Exxon)
Belfast, Maine

Sample Location	B101	B103	B105	B105 (Duplicate)	B106	B107	B108	B110	BK-1	BK2	BK3	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)					MEDEP Remediation Guidelines for Petroleum Contaminated Sites in Maine (Dec. 1, 2009)				
	Sample Identification	B101-S3	B103-S5	B105-S1	B10X-S1	B106-S6	B107-S1	B108-S1	B110-S1	BK1	BK2	BK3	Residential	Park User	Outdoor Commercial Worker	Excavation/Construction Worker	Residential	Park User	Outdoor Commercial Worker	Excavation/Construction Worker	Background Rural	Background Urban	Tier 2 Residential	Tier 2 Park User	Tier 2 Outdoor Commercial Worker
Sample Depth (ft bgs)	4-6	8-10	0-2	0-2	10-12	0-2	02	0-2	0-2	0-2	0-2														
Date Collected	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012														
Volatile Organic Compounds												miligrams per kilogram (mg/kg)													
Benzene	0.147	BRL(0.117)	BRL(0.104)	BRL(0.124)	BRL(0.109)	BRL(0.106)	BRL(0.101)	NA	NA	NA	NA	17	28	86	30	85	140	850	150	NE	NE	17	28	86	30
sec-Butylbenzene	NA	NA	BRL(0.104)	BRL(0.124)	BRL(0.109)	0.109	BRL(0.101)	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloromethane	NA	NA	BRL(0.104)	BRL(0.124)	0.242 B	BRL(0.106)	BRL(0.101)	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Ethylbenzene	0.681	BRL(0.117)	BRL(0.104)	BRL(0.124)	BRL(0.109)	BRL(0.106)	BRL(0.101)	NA	NA	NA	NA	130	210	420	2,700	1,300	2,200	4,300	10,000	NE	NE	130	210	420	2,700
p-Isopropyltoluene	NA	NA	BRL(0.104)	BRL(0.124)	BRL(0.109)	0.166	BRL(0.101)	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methyl-tert-butyl ether (MTBE)	0.207	BRL(0.059)	BRL(0.078)	BRL(0.093)	BRL(0.082)	BRL(0.106)	BRL(0.076)	NA	NA	NA	NA	780	1,300	2,600	10,000	5,100	8,500	10,000	10,000	NE	NE	780	1,300	2,600	10,000
Naphthalene	0.295	BRL(0.117)	BRL(0.104)	BRL(0.124)	BRL(0.109)	1.34	BRL(0.101)	NA	NA	NA	NA	200	330	200	32	2500	4200	10,000	10,000	NE	NE	200	330	200	32
n-Propylbenzene	NA	NA	BRL(0.104)	BRL(0.124)	BRL(0.109)	0.184	BRL(0.101)	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Toluene	0.362	BRL(0.117)	BRL(0.104)	BRL(0.124)	BRL(0.109)	0.055 J	BRL(0.101)	NA	NA	NA	NA	2,700	4,500	10,000	10,000	10,000	10,000	10,000	10,000	NE	NE	2,700	4,500	10,000	10,000
1,2,4-Trimethylbenzene	NA	NA	BRL(0.104)	BRL(0.124)	BRL(0.109)	2.54	BRL(0.101)	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3,5-Trimethylbenzene	NA	NA	BRL(0.104)	BRL(0.124)	BRL(0.109)	1.08	BRL(0.101)	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
o-Xylene	0.232	BRL(0.117)	BRL(0.104)	BRL(0.124)	BRL(0.109)	0.324	BRL(0.101)	NA	NA	NA	NA	6,600 ⁽⁵⁾	10,000 ⁽⁵⁾	10,000 ⁽⁵⁾	7,000 ⁽⁵⁾	10,000	10,000	10,000	10,000	NE	NE	6,600 ⁽⁵⁾	10,000 ⁽⁵⁾	10,000 ⁽⁵⁾	7,000 ⁽⁵⁾
m,p-Xylene	0.916	BRL(0.235)	BRL(0.104)	BRL(0.124)	BRL(0.109)	0.252	BRL(0.101)	NA	NA	NA	NA	6,600 ⁽⁵⁾	10,000 ⁽⁵⁾	10,000 ⁽⁵⁾	7,000 ⁽⁵⁾	10,000	10,000	10,000	10,000	NE	NE	6,600 ⁽⁵⁾	10,000 ⁽⁵⁾	10,000 ⁽⁵⁾	7,000 ⁽⁵⁾
All Other VOCs	BRL(Various)	BRL(Various)	BRL(Various)	BRL(Various)	BRL(Various)	BRL(Various)	BRL(Various)	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various
Target EPH Compounds												miligrams per kilogram (mg/kg)													
Acenaphthene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	BRL(2.820)	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	970	1,600	2,000	110	7500	10,000	10000	9800	0.479	0.6072	970	1,600	2,000	110
Acenaphthylene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	BRL(2.820)	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	1,000	1,700	2,200	130	7500	10,000	10000	10000	0.4937	0.6606	1,000	1,700	2,200	130
Anthracene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	BRL(2.820)	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	4,300	7,200	7,800	430	10000	10,000	10000	3800	0	1.63	4,300	7,200	7,800	430
Benzo(g,h,i) perylene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	2.630 J	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	750	1,200	5,500	10,000	3,700	6,200	10,000	10,000	1	2.035	NE	NE	NE	NE
Benzo[a]pyrene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	2.660 J	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	0.026	0.044	0.35	4.3	0.26	0.44	3.5	43	2	4.57	0.026	0.044	0.35	4.3
Benzo[a]anthracene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	2.520 J	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	0.26	0.44	3.5	4.3	2.6	4.4	35	430	2	4.15	0.26	0.44	3.5	4.3
Benzo[b]fluoranthene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	3.8	BRL(0.272)	BRL(0.321)	0.229 J	NA	NA	0.26	0.44	3.5	4.3	2.6	4.4	35	430	3	5.335	0.26	0.44	3.5	4.3
Benzo[k]fluoranthene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	1.42 J	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	2.6	4.4	35	430	2.6	4.4	350	4300	2	3.225	2.6	4.4	35	430
Chrysene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	2.87	BRL(0.272)	BRL(0.321)	0.185 J	NA	NA	26	44	350	4,300	260	440	3,500	10,000	4	4.1	26	44	350	4,300
Dibenz[a,h]anthracene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	BRL(2.820)	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	0.026	0.044	0.35	4.3	0.26	0.44	3.5	43	NE	NE	0.026	0.044	0.35	4.3
Fluoranthene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	4.05	BRL(0.272)	BRL(0.321)	0.293 J	NA	NA	1,000	1,700	7,300	10,000	5,000	8,300	10,000	10,000	4	7.635	1,000	1,700	7,300	10,000
Fluorene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	BRL(2.820)	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	830	1,400	2,700	200	5000	8,300	10000	10000	0	0.708	830	1,400	2,700	200
Indeno[1,2,3-cd]pyrene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	2.440 J	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	0.26	0.44	3.5	4.3	2.6	4.4	35	430	2	2.6	0.26	0.44	3.5	4.3
2-Methylnaphthalene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	1.720 J	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	94	160	480	35	500	830	3600	600	0.414	0.804	94	160	480	35
Naphthalene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	BRL(2.820)	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	200	330	200	32	2500	4,200	10000	10000	0.041	0.8368	NE	NE	NE	NE
Phenanthrene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	2.150 J	BRL(0.272)	BRL(0.321)	BRL(0.352)	NA	NA	700	1,200	3,600	470	3700	6,200	10000	10000	1.608	4.064	700	1,200	3,600	470
Pyrene	NA	NA	BRL(0.282)	BRL(0.299)	BRL(0.287)	4.35	BRL(0.272)	BRL(0.321)	0.261 J	NA	NA	750	1,200	5,500	10,000	3,700	6,200	10,000	10,000	4.016	6.71	750	1,200	5,500	10,000
Extractable Petroleum Hydrocarbon (EPH) Fractions												miligrams per kilogram (mg/kg)													
C9-C18 Aliphatics	NA	NA	BRL(14.1)	BRL(14.9)	BRL(14.3)	BRL(2.820)	BRL(13.6)	BRL(16.0)	BRL(17.600)	NA	NA	NE	NE	NE	NE	2600	4400	10000	7300	NE	NE	2,600	4,400	10,000	7,300
C19-C36 Aliphatics	NA	NA	8.440 J	15.3	BRL(14.3)	1,570.00	9.030 J	38.6	10.100 J	NA	NA	NE	NE	NE	NE	10000	10000	10000	10000	NE	NE	10,000	10,000	10,000	10,000
C11-C22 Aromatics	NA	NA	10.800 J	8.010 J	BRL(14.3)	949	BRL(13.6)	11.100 J	16.700 J	NA	NA	NE	NE	NE	NE	730	1,200	4,500	4,700	NE	NE	730	1,200	4,500	4,700
Volatile Petroleum Hydrocarbon (VPH) Fractions												miligrams per kilogram (mg/kg)													
C5-C8 Aliphatics	19.8	BRL(2.930)	BRL(2.860)	BRL(3.230)	BRL(3.040)	BRL(13.900)	BRL(2.720)	NA	NA	NA	NA	NE	NE	NE	NE	1400	2300	10000	10000	NE	NE	1,400	2,300	10,000	10,000
C9-C12 Aliphatics	8.15	BRL(2.930)	BRL(2.860)	BRL(3.230)	BRL(3.040)	46.8	BRL(2.720)	NA	NA	NA	NA	NE	NE	NE	NE	2600	4400	10000	9800	NE	NE	2,600	4,400	10,000	9,800
C9-C10 Aromatics	9.02	0.732	BRL(0.572)	BRL(0.646)	BRL(0.608)	58	BRL(0.544)	NA	NA	NA	NA	NE	NE	NE	NE	740	1200	5100	5500	NE	NE	740	1,200	5,100	5,500
Metals												miligrams per kilogram (mg/kg)													
Arsenic	NA	NA	9.8	9.5	28	16,100	11	NA	23	20	12	0.14	0.23	0.42	4.2	1.4	2.3	4.2	42	15	NE	NE	NE	NE	NE
Lead	12	6	12	13	4.8	214	7	NA	68	90	146	170	280	560	950	340	530	1100	950	NE	NE	170	280	560	950
Poly Chlorinated Bi-Phenyls												miligrams per kilogram (mg/kg)													
Total PCBs	NA	NA	BRL(0.036)	BRL(0.040)	BRL(0.036)	BRL(0.036)	BRL(0.033)	NA	NA	NA	NA	0.49 ⁽¹⁾	0.82 ⁽¹⁾	1.2 ⁽¹⁾	1.3 ⁽¹⁾	2.4 ⁽¹⁾	4.1 ⁽¹⁾	12 ⁽¹⁾	6.1 ⁽¹⁾	NE	NE	NE	NE	NE	

Notes:

MEDEP = Maine Department of Environmental Protection

mg/kg = milligrams per kilogram

ND = Not Detected above laboratory reporting limit

NA = Not Analyzed

NE indicates that a standard or guideline is "not established" for the referenced parameter.

B = compound detected in laboratory blank

J = estimated concentration detected below laboratory quantitation limit

Values in **bold** text exceed applicable MEDEP RAGs for the proposed reuse/exposure scenarios of Outdoor Commercial Worker and/or Excavation/Construction Worker

⁽¹⁾ Standard is for total of all isomers (i.e., total PCBs, not

Table 3: Groundwater Sample Analytical Results
29 Belmont Avenue (Former Exxon)
Belfast, Maine

Sample I.D.	MW101	MW102	MW103	MW104	MW X (Duplicate of MW103)	Septic Tank	MECDC Maximum Exposure Guidelines (MEGs)	USEPA Maximum Contaminant Level (MCLs)	MEDEP Remediation Guidelines for Petroleum Contaminated Sites in Maine (Tier 1 Guidelines)
Date Collected	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012			
Volatile Organic Compounds	Groundwater (ug/L)								
Benzene	5.00	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	4	5	4
Chlorobenzene	BRL(1)	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	100	100	NE
1,2-Dibromoethane (EDB)	BRL(1)	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	0.2	0.05	NE
1,2-Dichlorobenzene	BRL(1)	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	200	600	NE
1,3-Dichlorobenzene	BRL(1)	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	1	NE	NE
1,4-Dichlorobenzene	BRL(1)	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	70	75	NE
1,2-Dichloroethane	BRL(1)	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	4	5	NE
Ethylbenzene	57	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	30	700	30
Methyl-tert-butyl ether (MTBE)	BRL(2)	3	BRL(1)	NA	BRL(1)	BRL(1)	35	NE	35
Naphthalene	22	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	10	NE	10
Toluene	107	0.6 J	BRL(1)	NA	BRL(1)	BRL(1)	600	1,000	600
o-Xylene	81	BRL(1)	BRL(1)	NA	BRL(1)	BRL(1)	1,000 ⁽²⁾	1,000 ⁽²⁾	1,000 ⁽²⁾
m,p-Xylene	184	BRL(2)	BRL(1)	NA	BRL(1)	BRL(1)	1,000 ⁽²⁾	1,000 ⁽²⁾	1,000 ⁽²⁾
All Other VOCs	NA	NA	BRL(various)	NA	BRL(various)	BRL(various)	Various	Various	Various
Target EPH Compounds	Groundwater (ug/L)								
Acenaphthene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	400	NE	400
Acenaphthylene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	NE	NE	400
Anthracene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	2,000	NE	2,000
Benzo(g,h,i) perylene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	NE	NE	200
Benzo(a)pyrene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	0.05	0.2	0.05
Benzo(a)anthracene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	0.5	NE	0.5
Benzo(b)fluoranthene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	0.5	NE	0.5
Benzo(k)fluoranthene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	5	NE	5
Chrysene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	50	NE	50
Dibenz[a,h]anthracene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	0.05	NE	0.05
Fluoranthene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	300	NE	300
Fluorene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	300	NE	300
Indeno[1,2,3-cd]pyrene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	0.5	NE	0.5
2-Methylnaphthalene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	30	NE	30
Naphthalene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	10	NE	NE
Phenanthrene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	NE	NE	200
Pyrene	NA	NA	BRL(4)	BRL(4)	BRL(4)	BRL(4)	200	NE	200
Extractable Petroleum Hydrocarbon (EPH) Fractions	Groundwater (ug/L)								
C9-C18 Aliphatics	NA	NA	BRL(100)	BRL(100)	BRL(100)	BRL(100)	700	NE	700
C19-C36 Aliphatics	NA	NA	BRL(100)	51 J	BRL(100)	BRL(100)	10,000	NE	10,000
C11-C22 Aromatics	NA	NA	BRL(100)	BRL(100)	BRL(100)	BRL(100)	200	NE	200
Volatile Petroleum Hydrocarbon (VPH) Fractions	Groundwater (ug/L)								
C5-C8 Aliphatics	532	BRL(50)	BRL(50)	NA	BRL(50)	BRL(50)	300	NE	300
C9-C12 Aliphatics	323	BRL(50)	BRL(50)	NA	BRL(50)	BRL(50)	700	NE	700
C9-C10 Aromatics	458	12	BRL(10)	NA	BRL(10)	11	200	NE	200
Metals	Groundwater (ug/L)								
Arsenic	NA	NA	BRL(8)	NA	BRL(8)	30	10	10	NE
Lead	6	BRL(5)	BRL(5)	NA	BRL(5)	54	10	15	10

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
- Values in **bold** text exceed drinking water and/or clenaup guidelines
- ⁽¹⁾ National Secondary Drinking Water Regulations (secondary standards)
- ⁽²⁾ Standard is for total of all isomers (i.e., total xylenes).

**Table 4: Soil Vapor Results
29 Belmont Avenue (Former Exxon)
Belfast, ME**

Sample I.D.	SV101	SV102	SV103 (Duplicate of SV102)	Draft MEDEP Remedial Action Guidelines for Sites Contaminated with Hazardous Substances (Jan 11, 2012)		MEDEP Vapor Intrusion Evaluation Guidance (chronic exposure scenario)	
				Soil Gas Targets Residential	Soil Gas Targets Commercial	Soil Gas Target Residential	Soil Gas Target Commercial
Sample Date	7/25/2012	8/2/2012	8/2/2012				
Volatile Organic Compounds	Air (ug/m3)						
Benzene	10.6	28.2	28.7	31	160	15.5	80.0
Chloroethane	BRL(1.27)	0.615	0.612	NE	NE	NE	NE
Chloroform	BRL(2.35)	1.09	1.22	11	53	5.5	26.5
Chloromethane	BRL(24.8)	5.04	5.29	940	3900	950	3950
1,2-Dichlorobenzene	BRL(2.90)	BRL(0.584)	1.30	NE	NE	NE	NE
Dichlorodifluoromethane	959	2.21	2.26	2,100	8,800	2,100	9,000
Ethylbenzene	304	6.30	6.34	97	490	48.5	245
Methyl-tert-butyl ether (MTBE)	BRL(48)	BRL(9.8)	BRL(9.8)	940	4,700	470	2,350
Styrene	3.90	5.53	5.79	3,100	13,000	3,150	13,000
Tetrachloroethene	BRL(3.27)	1.08	1.13	41	210	20.5	105
Toluene	49.7	26.1	26.8	52,000	220,000	50,000	220,000
Trichloroethene	BRL(2.59)	0.522	1.06	41	210	60	305
Trichlorofluoromethane	BRL(6.74)	2.60	2.54	NE	NE	NE	NE
1,2,4-Trimethylbenzene	1760	3.58	3.39	NE	NE	NE	NE
1,3,5-Trimethylbenzene	1470	1	0.944	NE	NE	NE	NE
o-Xylene	1090	5.30	4.95	1,000	4,400	1,050	4,400
m,p-Xylene	851	11.2	10.6	1,000	4,400	1,050	4,400
1,3-Butadiene	9.82	62.6	71.2	8.1	41	4.05	20.5
All other VOCs	BRL(various)	BRL(various)	BRL(various)	Various	Various	Various	Various
Air-Phase Petroleum Hydrocarbons	Air (ug/m3)						
C5-C8 Aliphatics	390,000	2,900	2,700	6300	26,000	6,500	26,500
C9-C12 Aliphatics	16,000	610	660	2100	8,800	2,100	9,000
C9-C10 Aromatics	13,000	BRL(49)	BRL(49)	520	2,200	500	2,200

Notes:

MEDEP = Maine Department of Environmental Protection

NE indicates that a standard or guideline is "not established" for the referenced parameter.

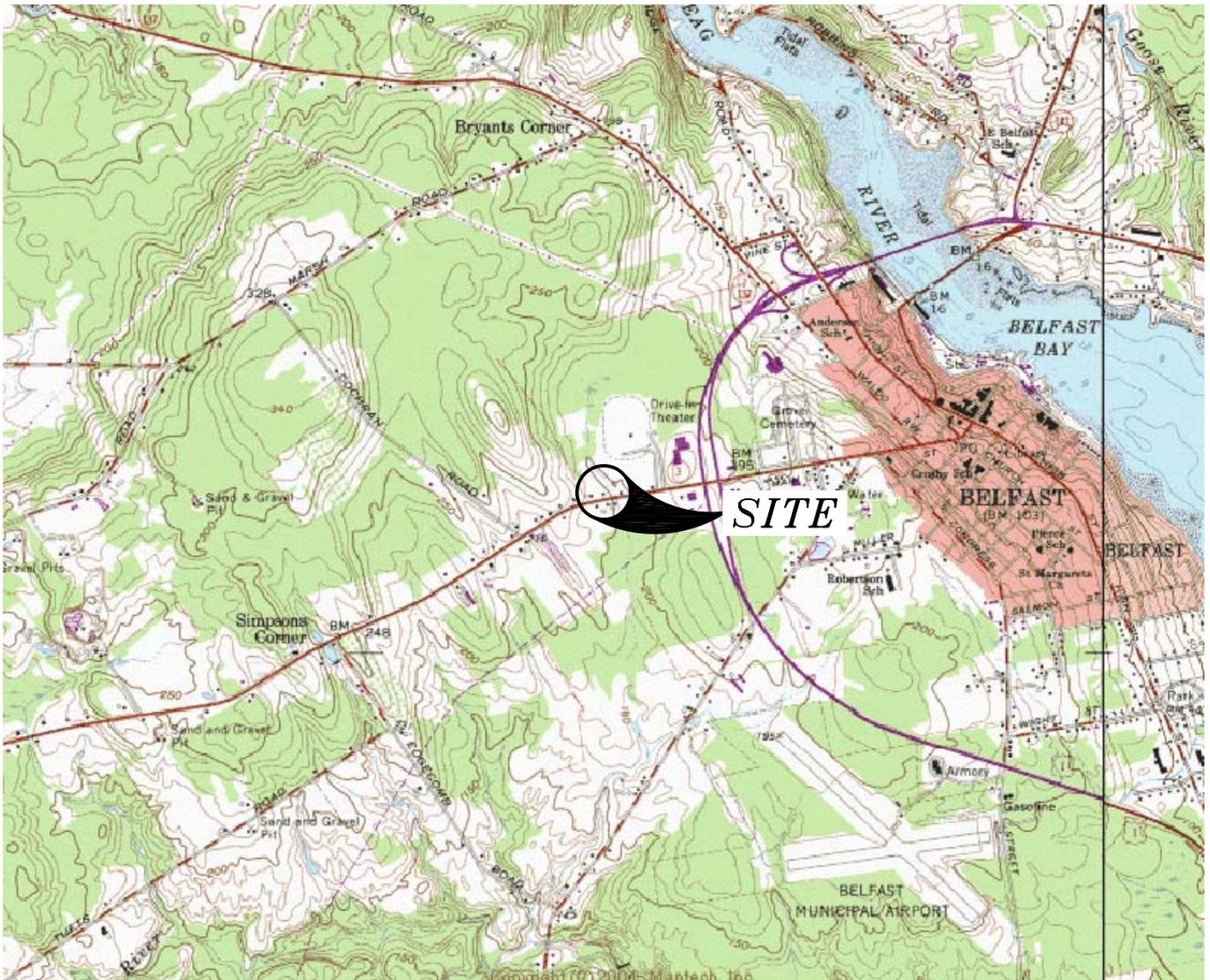
ND = Not Detected above the laboratory detection limit

Soil Gas Targets = 10 times the Indoor Air Target, as discussed in the January 11, 2012 Draft MEDEP Remedial Action Guidelines; OR 50 times the Indoor Air Target for multi-contaminant sites, as discussed in the January 14, 2010 Vapor Intrusion Evaluation Guidance.

TABLE 5: SUMMARY OF DUPLICATE SAMPLE ANALYTICAL RESULTS

Phase II Environmental Site Assessment
 29 Belmont Avenue (Former Exxon)
 Belfast, Maine

Sample Location	B105-S1	B10X-S1	Relative Percent Difference	MW103	MWX	Relative Percent Difference	SV102	SV103	Relative Percent Difference
Sample Depth (ft bgs)	0-2 feet	0-2 feet		6-16 feet	6-16 feet		2.5-3	2.5-3	
Sample Date	7/25/2012	7/25/2012		7/25/2012	7/25/2012		8/2/2012	8/2/2012	
Volatile Organic Compounds (VOCs)	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/m3		%
Benzene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		28.2	28.7	-2
Chloroethane	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		0.615	0.612	
Chloroform	BRL(0.078)	BRL(0.093)		BRL(1)	BRL(1)		1.09	1.22	
Chloromethane	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		5.04	5.29	
1,2-Dichlorobenzene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		BRL(0.584)	1.30	
Dichlorodifluoromethane	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		2.21	2.26	
Ethylbenzene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		6.30	6.34	-1
Methyl-tert-butyl ether (MTBE)	BRL(0.078)	BRL(0.093)		BRL(1)	BRL(1)		BRL(9.8)	BRL(9.8)	
Styrene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		5.53	5.79	-5
Tetrachloroethene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		1.08	1.13	
Toluene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		26.1	26.8	-3
Trichloroethene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		0.522	1.06	
Trichlorofluoromethane	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		2.60	2.54	
1,2,4-Trimethylbenzene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		3.58	3.39	5
1,3,5-Trimethylbenzene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		1	0.944	
o-Xylene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		5.30	4.95	7
m,p-Xylene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		11.2	10.6	6
1,3-Butadiene	BRL(0.104)	BRL(0.124)		BRL(1)	BRL(1)		62.6	71.2	-13
All other VOCs	BRL(Various)	BRL(Various)		BRL(Various)	BRL(Various)		BRL(Various)	BRL(Various)	
Target EPH Compounds	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/l		%
All Target EPH Compounds	BRL(Various)	BRL(Various)		BRL(Various)	BRL(Various)		NA	NA	
Volatile Petroleum Hydrocarbon (VPH) Fractions	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/l		%
C ₅ through C ₈ Aliphatics	BRL(2.860)	BRL (3.230)		BRL (50)	BRL (50)		2,900	2,700	7
C ₉ through C ₁₂ Aliphatics	BRL(2.860)	BRL (3.230)		BRL (50)	BRL (50)		610	660	-8
C ₉ through C ₁₀ Aromatics	BRL(0.572)	BRL(0.646)		BRL (10)	BRL (10)		BRL (49)	BRL (49)	
Extractable Petroleum Hydrocarbon (EPH) Fractions	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/l		%
C ₉ through C ₁₈ Aliphatics	BRL (14.1)	BRL(14.9)		BRL (100)	BRL (100)		NA	NA	
C ₁₉ through C ₂₆ Aliphatics	8.44 J	15.3		BRL (100)	BRL (100)		NA	NA	
C ₁₁ through C ₂₂ Aromatics	10.8 J	8.01 J		BRL (100)	BRL (100)		NA	NA	
Metals	Concentrations in mg/kg		%	Concentrations in µg/l		%	Concentrations in µg/l		%
Arsenic	9.8	9.5	3	BRL(8)	BRL(8)		NA	NA	
Lead	12.0	13.0	-8	BRL (5)	BRL (5)		NA	NA	

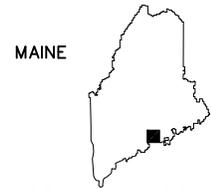


TAKEN FROM U.S.G.S. 7.5x15 MINUTE SERIES TOPOGRAPHIC MAP OF BELFAST, MAINE—1960 (REVISED 1979).

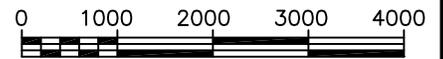
CONTOUR INTERVAL IS 10 FEET

SITE COORDINATES: LATITUDE 44°25'23"
LONGITUDE 69°01'39"

UTM COORDINATES: 49:18:874mN
4:97:805mE



QUADRANGLE LOCATION



SCALE in FEET
1:24,000

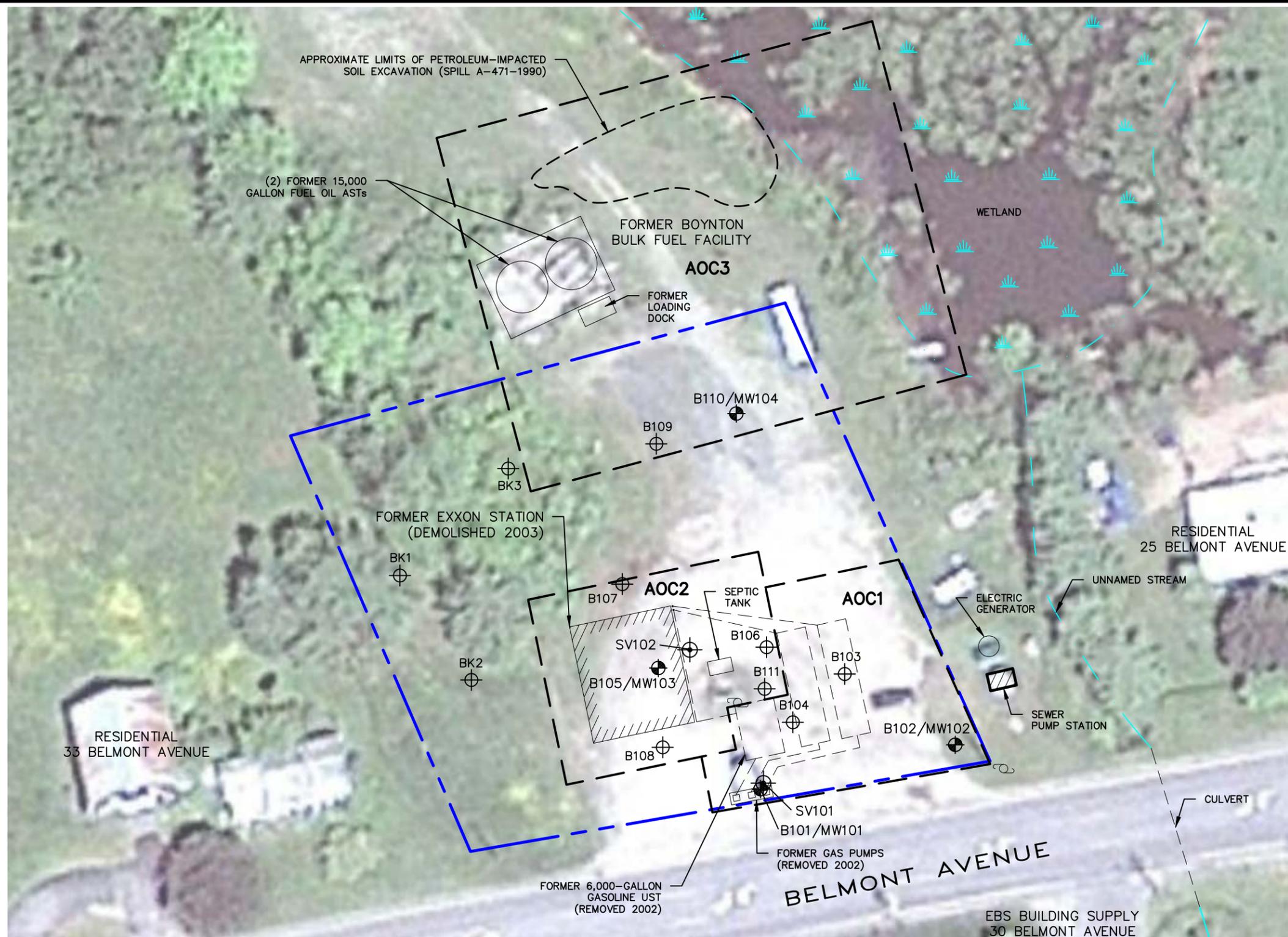
RANSOM Consulting, Inc.

SITE LOCATION MAP

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

SITE:
29 BELMONT AVENUE
(FORMER EXXON STATION)
BELFAST, MAINE

DATE: NOVEMBER 2012
PROJECT: 111.06134
FIGURE: 1

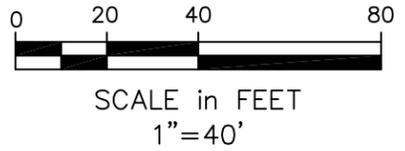


LEGEND:

- B101/MW101 SOIL BORING/MONITORING WELL
- B109 SOIL BORING
- SV101 SOIL VAPOR POINT
- PW101 PORE WATER SAMPLE
- UTILITY POLE
- SURFACE WATER FLOW DIRECTION
- AOC1** APPROXIMATE LIMITS OF AREA OF CONCERN
- APPROXIMATE LIMITS OF 1990 SOIL EXCAVATION
- APPROXIMATE WETLAND AREA
- APPROXIMATE SITE BOUNDARY (BOUNDARY TAKEN FROM CITY OF BELFAST TAX MAP)

NOTES:

1. SITE PLAN BASED ON OBSERVATIONS MADE BY RANSOM CONSULTING, INC. 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.

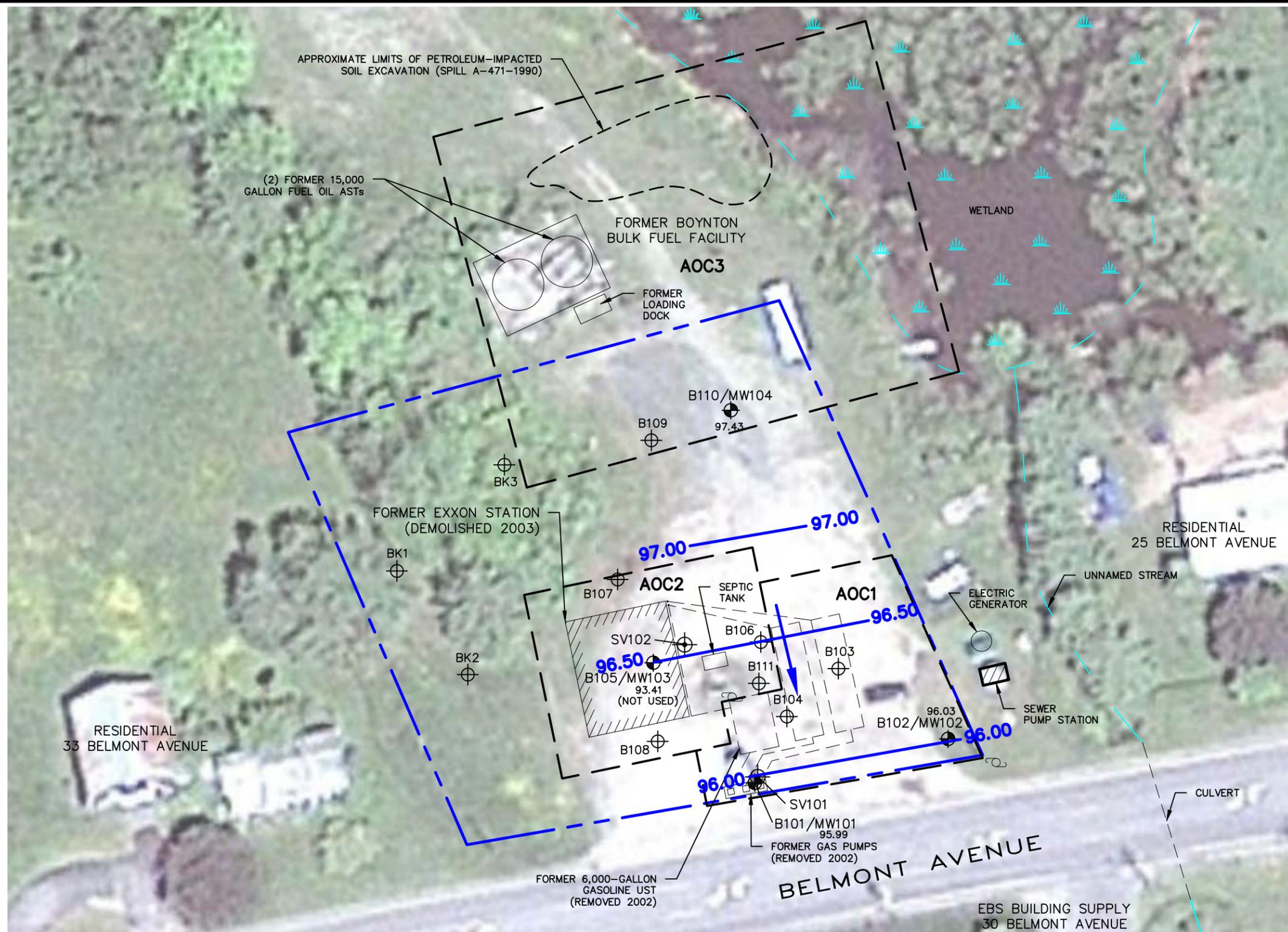


SITE PLAN

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

SITE:
29 BELMONT AVENUE
(FORMER EXXON STATION)
BELFAST, MAINE

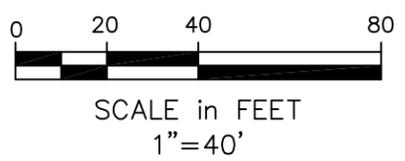
DATE: NOVEMBER 2012
PROJECT: 111.06134
FIGURE: 2



LEGEND:

- B101/MW101 95.99 SOIL BORING/MONITORING WELL WITH GROUNDWATER ELEVATION
- B109 SOIL BORING
- SV101 SOIL VAPOR POINT
- PW101 PORE WATER SAMPLE
- UTILITY POLE
- SURFACE WATER FLOW DIRECTION
- 96.00 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- AOC1 APPROXIMATE LIMITS OF AREA OF CONCERN
- APPROXIMATE LIMITS OF 1990 SOIL EXCAVATION
- APPROXIMATE WETLAND AREA
- APPROXIMATE SITE BOUNDARY (BOUNDARY TAKEN FROM CITY OF BELFAST TAX MAP)

- NOTES:**
- SITE PLAN BASED ON OBSERVATIONS MADE BY RANSOM CONSULTING, INC. AERIAL IMAGE PROVIDED BY GOOGLE EARTH.
 - SOME FEATURES ARE APPROXIMATE IN LOCATION AND SCALE.
 - 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.



RANSOM Consulting, Inc.		GROUNDWATER CONTOUR PLAN AUGUST 3, 2012
PREPARED FOR: CITY OF BELFAST 131 CHURCH STREET BELFAST, MAINE	SITE: 29 BELMONT AVENUE (FORMER EXXON STATION) BELFAST, MAINE	
		DATE: NOVEMBER 2012 PROJECT: 111.06134 FIGURE: 3

APPENDIX A

Boring Logs

Phase II Environmental Site Assessment
29 Belmont Avenue
(Former Exxon Station)
Belfast, Maine

BORING AND MONITORING WELL LOG: B101/MW101

Reviewed by: <i>ADJ</i>	Total Depth: 16 Feet	Logged By: EPP
Date Reviewed: <i>10/16/12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup: 27.5	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') - 17" - Brown, well graded SAND and Gravel, little fines, moist.		S1	NM	24/17	1.3		
	S2(2.0'-4.0') - No Recovery		S2	NM	24/0	-		
5	S3(4.0'-6.0') - 20" - Gray, low to moderate plasticity glaciomarine CLAY, moist, mild petroleum odor		S3	NM	24/20	256	5	
	S4(6.0'-8.0') - No Recovery		S4	NM	24/0	-		
	S5(8.0'-10.0') - 17" - Gray glaciomarine CLAY, little to some sand, moist to wet.		S5	NM	24/17	2.3		
10	S6(10.0'-12.0') - No Recovery		S6	NM	24/0	-	10	
	S7(12.0'-14.0') - 24" - Gray glaciomarine, fine to coarse Sand, some fine to medium Gravel, trace silt, wet.		S7	NM	24/24	1.2		
15	S8(14.0'-16.0') - 8" - Gray glaciomarine, fine to coarse Sand, some fine to medium Gravel, trace silt, wet.		S6	NM	24/8	1.1	15	
	Bottom of Boring @ 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 drilling rig.
- 2) Sample designated with solid fill submitted for laboratory analysis. 3) Temporary well casing removed and boring backfilled with drill cuttings following groundwater sample collection. 4) NM = Not Measured.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING AND MONITORING WELL LOG: B102/MW102

Reviewed by: <i>[Signature]</i>	Total Depth: 13.1 Feet	Logged By: EPP
Date Reviewed: <i>10/24/12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup: 22.0	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') - Top 20" - Brown, well graded fine to coarse SAND and GRAVEL, moist. Bottom 4" - Gray glaciomarine CLAY with roots and organics.		S1	NM	24/24	1.0		
	S2(2.0'-4.0') - 3" - Gray CLAY with organics/roots		S2	NM	24/3	1.3		
5	S3(4.0'-6.0') - 24" - Brown/gray, glaciomarine CLAY, moist.		S3	NM	24/24	1.1	5	
	S4(6.0'-8.0') - 8" - Brown/gray, glaciomarine CLAY, moist.		S4	NM	24/8	1.0		
	S5(8.0'-10.0') - 3" - Brown SAND and GRAVEL, some fines (maybe sluff, limited recovery).		S5	NM	24/3	1.4	10	
10	S6(10.0'-12.0') - No Recovery		S6	NM	24/0	-		
	S7(12.0'-13.1') - 24" - Gray CLAY, some fine to coarse Sand, wet. Refusal @ 13.1' bgs.		S7	NM		1.2	15	

LEGEND:

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

NOTES:
 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
 2) Temporary well casing removed and boring backfilled with drill cuttings following groundwater sample collection. 3) NM = Not Measured.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING LOG:

B103

Reviewed By: <i>798</i>	Total Depth: 12 Feet	Logged By: EPP
Date Reviewed: <i>10/16/12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup:	Driller: EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)	DEXSIL (ppm)	DEPTH
	S1(0.0'-2.0') - 21" - Brown, well graded SAND and GRAVEL, dry to moist.		S1	NM	24/21	1.3		
	S2(2.0'-4.0') - No Recovery		S2	NM	24/0	-		
5	S3(4.0'-6.0') - 10" - Brown/gray, low plasticity CLAY, little fine to coarse sand, moist.		S3	NM	24/10	1.5		5
	S4(6.0'-8.0') - No Recovery		S4	NM	24/0	-		
	S5(8.0'-10.0') - 24" - Brown fine to coarse SAND, some Fines, little gravel, wet.		S5	NM	24/24	1.5		
10	S6(10.0'-12.0') - 2" - Brown fine to coarse SAND, some Fines, little gravel, wet.		S6	NM	24/2	1.2		10
	Boring terminated at 12' bgs.							
15								15

NOTES:

- 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
- 2) Sample designated with solid fill submitted for laboratory analysis. 3)
- NM = Not Measured; NA = Not Applicable.

CLIENT:

City of Belfast

SITE:

Former Exxon
29 Belmont Ave.
Belfast, ME

BORING LOG:

B104

Reviewed By: <i>YJP</i>	Total Depth: 12 Feet	Logged By: EPP
Date Reviewed: <i>6/16/12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup:	Driller: EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)	DEXSIL (ppmv)	DEPTH
	S1(0.0'-2.0') - 24" - Brown/gray, well graded SAND and GRAVEL, dry to moist.		S1	NM	24/24	1.4		
	S2(2.0'-4.0') - Top 3" - SAND and GRAVEL. Bottom 3" - Light gray low plasticity CLAY, moist.		S2	NM	24/6	1.6		
5	S3(4.0'-6.0') - Top 8" - Brown fine to coarse SAND, some Fines, moist. Bottom 10" - Brown fine to medium SAND, wet.		S3	NM	24/18	1.2		5
	S4(6.0'-8.0') - No Recovery		S4	NM	24/0	-		
	S5(8.0'-10.0') - 24" - Brown fine to medium, poorly graded SAND, wet.		S5	NM	24/24	1.1		
10	S6(10.0'-12.0') - 12" - Brown fine to coarse SAND, some Fines, wet.		S6	NM	24/12	0.7		10
	Boring terminated at 12' bgs.							
15								15

NOTES:

- 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
- 2) NM = Not Measured; NA = Not Applicable.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING AND MONITORING WELL LOG: B105/MW103

Reviewed by: <i>EPP</i>	Total Depth: 16 Feet	Logged By: EPP
Date Reviewed: <i>10/16/12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup: 17.5	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') - 24" - Brown, fin to coarse SAND, some Gravel, trace fines, moist.		S1	NM	24/24	0.7		
	S2(2.0'-4.0') - 8" - Brown/gray SILT and CLAY, trace fine sand, moist.		S2	NM	24/8	1.1		
5	S3(4.0'-6.0') - 24" - Brown/gray, low plasticity glaciomarine CLAY.		S3	NM	24/24	0.9	5	
	S4(6.0'-8.0') - 24" - Brown/gray, low plasticity glaciomarine CLAY.		S4	NM	24/24	0.6		
10	S5(8.0'-10.0') - Top 14" - glaciomarine CLAY. Bottom 10" - Brown CLAY and fine to coarse SAND, moist to wet.		S5	NM	24/24	0.7	10	
	S6(10.0'-11.5') - 6" - Brown, fine to coarse SAND, moist to wet.		S6	NM	24/6	1.1	10	
15	Refusal @ 11.5'. Move boring 2' to the east and drive point to depth of 16' bgs - no soil recovery						15	

LEGEND:

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

NOTES:

- 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
- 2) Sample designated with solid fill submitted for laboratory analysis.
- 3) Temporary well casing removed and boring backfilled with drill cuttings following groundwater sample collection.
- 4) NM = Not Measured.

CLIENT:

City of Belfast

SITE:

Former Exxon
29 Belmont Ave.
Belfast, ME

BORING LOG:

B106

Reviewed By: <i>[Signature]</i>	Total Depth: 12 Feet	Logged By: EPP
Date Reviewed: 10/16/12	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup:	Driller: EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/RECOVERY	OVM (ppmv)	DEXSIL (ppm)	DEPTH
	S1(0.0'-2.0') - 24" - Brown, well graded fine to coarse SAND, some Gravel, moist.	SAMPLE	S1	NM	24/24	1.5		
	S2(2.0'-4.0') - 8" - Brown/gray low plasticity CLAY, moist.		S2	NM	24/8	1.7		
5	S3(4.0'-6.0') - 24" - Brown/gray, low plasticity CLAY, moist.		S3	NM	24/24	1.4		5
	S4(6.0'-8.0') - 18" - Brown/gray CLAY, some fine to coarse Sand, moist to wet.		S4	NM	24/18	1.0		
10	S5(8.0'-10.0') - 24" - Brown fine to coarse SAND, some Fines, little gravel, wet.		S5	NM	24/24	1.1		10
	S6(10.0'-12.0') - 10" - Brown fine to coarse SAND, some Fines, little gravel, wet.		S6	NM	24/10	0.7		
	Boring terminated at 12' bgs.							

NOTES:
 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
 2) Sample designated with solid fill submitted for laboratory analysis. 3)
 NM = Not Measured; NA = Not Applicable.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING LOG:

B107

Reviewed By: <i>[Signature]</i>	Total Depth: 11.8 Feet	Logged By: EPP
Date Reviewed: 10/16/12	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup:	Driller: EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OMV (ppmv)	DEXSIL (ppm)	DEPTH
	S1(0.0'-2.0') - Top 9" - Brown, well graded SAND. Bottom 10" - Black SAND and CLAY, wet, waste oil odor?		S1	NM	24/19	4.0		
	S2(2.0'-4.0') - No Recovery		S2	NM	24/0	-		
5	S3(4.0'-6.0') - 24" - Brown/gray, low plasticity glaciomarine CLAY, moist.		S3	NM	24/24	6.2		5
	S4(6.0'-8.0') - 24" - Brown/gray, low plasticity glaciomarine CLAY, moist.		S4	NM	24/24	6.8		
	S5(8.0'-10.0') - 7" - Brown SAND and GRAVEL, pulverized rock, metal fragments (fill), moist to wet.		S5	NM	24/7	1.2		
10	S6(10.0'-11.8') - No Recovery		S6	NM	24/0	-		10
	Refusal at 11.8' bgs.							
15								15

NOTES:
 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
 2) Sample designated with solid fill submitted for laboratory analysis. 3)
 NM = Not Measured; NA = Not Applicable.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING LOG:

B108

Reviewed By: <i>JJS</i>	Total Depth: 12 Feet	Logged By: EPP
Date Reviewed: <i>10/16/12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup:	Driller: EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)	DEXSIL (ppm)	DEPTH
	S1(0.0'-2.0') - Top 22" - Brown, well graded SAND and GRAVEL, dry to moist. Bottom 2" - Brown, low plasticity CLAY, moist.		S1	NM	24/24	2.6		
	S2(2.0'-4.0') - 5" - Brown to gray, low plasticity CLAY, moist.		S2	NM	24/5	1.2		
5	S3(4.0'-6.0') - 24" - Brown/gray, glaciomarine CLAY, moist.		S3	NM	24/24	1.1		5
	S4(6.0'-8.0') - 24" - Brown/gray, glaciomarine CLAY, moist.		S4	NM	24/24	1.3		
	S5(8.0'-10.0') - 24" - Brown, low plasticity glaciomarine CLAY, moist to wet.		S5	NM	24/24	1.3		
10	S6(10.0'-12.0') - 24" - Brown, CLAY, little fine to coarse sand, moist to wet.		S6	NM	24/24	1.4		10
	Boring terminated at 12' bgs.							
15								15

NOTES:

- 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
- 2) Sample designated with solid fill submitted for laboratory analysis. 3)
- NM = Not Measured; NA = Not Applicable.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING LOG:

B109

Reviewed By: <i>[Signature]</i>	Total Depth: 12 Feet	Logged By: EPP
Date Reviewed: <i>1-16-12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: 8 Feet	Well Stickup:	Driller: EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)	DEXSIL (ppm)	DEPTH
	S1(0.0'-2.0') - Top 19" - Brown, well graded SAND and GRAVEL. Bottom 5" - Brown, glaciomarine CLAY, moist.		S1	NM	24/24	1.3		
	S2(2.0'-4.0') - 12" - Brown/gray, low plasticity CLAY, moist.		S2	NM	24/12	0.9		
5	S3(4.0'-6.0') - 24" - Brown/gray CLAY, little sand, moist.		S3	NM	24/24	1.4		5
	S4(6.0'-8.0') - 24" - Brown/gray CLAY, little sand, moist.		S4	NM	24/24	1.1		
10	S5(8.0'-10.0') - 24" - Brown fine to coarse SAND, some Gravel and fines, moist to wet.		S5	NM	24/24	1.3		10
	S6(10.0'-12.0') - 7" - Brown fine to coarse SAND, some Gravel and fines, moist to wet.		S6	NM	24/7	1.2		
	Boring terminated at 12' bgs.							
15								15

NOTES:
1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
2) NM = Not Measured; NA = Not Applicable.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING AND MONITORING WELL LOG: B110/MW104

Reviewed by: <i>PJS</i>	Total Depth: 16 Feet	Logged By: EPP
Date Reviewed: <i>10/16/12</i>	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup: 22.0	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') - Top 16" - Light gray/brown, well graded SAND and GRAVEL. Bottom 8" - Gray/brown SILT and CLAY, trace fine sand, moist.		S1	NM	24/24	2.0		
	S2(2.0'-4.0') - No Recovery		S2	NM	24/0	-		
5	S3(4.0'-6.0') - 24" - Brown/gray, low plasticity glaciomarine CLAY, moist.		S3	NM	24/24	1.5	5	
	S4(6.0'-8.0') - 24" - Brown/gray, low plasticity glaciomarine CLAY, moist.		S4	NM	24/24	1.4		
	S5(8.0'-10.0') - 3" - Brown glaciomarine CLAY, little sand and pulverized rock.		S5	NM	24/24	1.2		
10	S6(10.0'-12.0') - Brown/gray GRAVEL, some fine to coarse sand, moist.		S6	NM	24/4	1.4	10	
	S7(12.0'-14.0') - Top 6" - Brown/gray SAND and GRAVEL, some fines. Bottom 18" - Gray CLAY, some fine to coarse gravel, wet.		S7	NM	24/24			
15	S8(14.0'-16.0') - No Recovery		S8	NM	24/0		15	
	Bottom of boring @ 16'							

LEGEND:

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

NOTES:

1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
2) Temporary well casing removed and boring backfilled with drill cuttings following groundwater sample collection. 3) NM = Not Measured.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

BORING LOG:

B111

Reviewed By: <i>[Signature]</i>	Total Depth: 12 Feet	Logged By: EPP
Date Reviewed: 10/16/12	Boring Diameter: 2 Inches	Date Drilled: 7/25/12 to 7/25/12
GW Observed at: Feet	Well Stickup:	Driller: EPI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	OVM (ppmv)	DEXSIL (ppm)	DEPTH
	S1(0.0'-2.0') - 19" - Brown SAND and GRAVEL, little fines.	SAMPLE	S1	NM	24/19	1.6		
	S2(2.0'-4.0') - No Recovery.		S2	NM	24/0	-		
5	S3(4.0'-6.0') - 5" - Brown, well graded SAND and GRAVEL, wet.		S3	NM	24/5	1.7		5
	S4(6.0'-8.0') - No Recovery		S4	NM	24/0	-		
10	S5(8.0'-10.0') - 6" - Gray/brown SAND and GRAVEL, moist to wet.		S5	NM	24/6	2.1		10
	S6(10.0'-12.0') - No Recovery.		S6	NM	24/0			
	Boring terminated at 12' bgs.							
15								15

NOTES:

- 1) Boring advanced using track-mounted GeoProbe 66DT drilling rig.
- 2) NM = Not Measured; NA = Not Applicable.

CLIENT:
City of Belfast

SITE:
Former Exxon
29 Belmont Ave.
Belfast, ME

APPENDIX B

Field Data Sheets

Phase II Environmental Site Assessment
29 Belmont Avenue
(Former Exxon Station)
Belfast, Maine

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	29 Belmont Ave (Former Exxon)
Location:	Belfast
Date:	7/25/12
Sample I.D.:	SV101
Sampling Personnel:	EPP
Project Manager:	P. Sherr
Collection Device:	(Suma Cannister) (Tedlar Bag) (Niosh Tube)
PID:	135
O ₂ :	3.5 %
CO ₂ :	Not Measured
Flow rate:	39 mls/min
Cannister I.D.:	812
Controller I.D.:	0036
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	3.5 → 4.0'
Depth to Water:	~ 7.5'
Suspected COCs:	(Petroleum) (Solvents)
Sampling Start Time:	1428
Initial Vacuum:	-28.75
Sampling End Time:	1453
Final Vacuum:	-2.87

Sample Location Sketch

FORMER BUILDING FOOTPRINT

CO₂ Telephone Pole

SV101
ΦMV101

BELMONT AVE.

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	29 Belmont Ave (Former Exxon)
Location:	Belfast
Date:	8/2/12
Sample I.D.:	SV102
Sampling Personnel:	ARM
Project Manager:	Pete Sherr
Collection Device:	(Suma Cannister)(Tedlar Bag) (Niosh Tube)
PID:	Not Measured
O ₂ :	20.9 % Vol
CO ₂ :	0.0
Flow rate:	40 mls/min
Cannister I.D.:	818
Controller I.D.:	47
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	2.5-3.0'
Depth to Water:	~7'
Suspected COCs:	(Petroleum) (Solvents)
Sampling Start Time:	1501
Initial Vacuum:	-28.0
Sampling End Time:	1521
Final Vacuum:	-3.00

Sample Location Sketch

Former Building Footprint

SV102/
SV103 (duplicate)

Telephone Pole

Belmont Ave.

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	29 Belmont Ave (Former Exxon)
Location:	Belfast
Date:	8/2/12
Sample I.D.:	SV103 (Duplicate)
Sampling Personnel:	ARM
Project Manager:	Pete Sherr
Collection Device:	(Suma Cannister) (Tedlar Bag) (Niosh Tube)
PID:	Not Measured
O ₂ :	20.9 % vol
CO ₂ :	0.0
Flow rate:	40 mls/min
Cannister I.D.:	830
Controller I.D.:	441
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	25-3
Depth to Water:	~7'
Suspected COCs:	(Petroleum) (Solvents)
Sampling Start Time:	1501
Initial Vacuum:	-28.6
Sampling End Time:	1523
Final Vacuum:	-3.12

Sample Location Sketch

Former Building Footprint

▲ SV102 / SV103 (Duplicate)

↑ Telephone Pole

Belmont Ave

Notes:

APPENDIX C

Certified Laboratory Analytical Results

Phase II Environmental Site Assessment

29 Belmont Avenue
(Former Exxon Station)
Belfast, Maine

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

**RE: Analytical Results Case Narrative
29 Belmont Ave. (Former Exxon)
Project No: 111.06134.006
Analytics #73486**

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 Extractable Petroleum Hydrocarbons (EPH) using MADEP EPH Method 2004 Rev 1.1.

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
- EPH Form I Data Sheet for Samples
- Chromatograms
- EPH Blank Summaries & Form 3 MS/MSD (LCS) Recoveries
- Chain of Custody (COC) Forms
- Sample Receipt Checklist

QC NON-CONFORMANCE SUMMARY

Sample Receipt:

No discrepancies.

No results were reported below the quantitation limit for the C9-C10 Aromatic Hydrocarbon range.

Extractable Petroleum Hydrocarbons (EPH):

No results were reported below the quantitation limit for the Hydrocarbon ranges.

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

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

Report Number: 73486

Revision: Rev. 0

Re: 29 Belmont Ave. (Former Exxon) (Project No: 111.06134.006)

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.

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
73486-1	08/02/12	Septic Tank	Electronic Data Deliverable	
	08/02/12	Septic Tank	MADEP EPH	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Department 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

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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	

EPH
DATA SUMMARIES

August 8, 2012

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

SAMPLE DATA

Lab Sample ID: 73486-1
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/02/12
Lab Receipt Date: 08/03/12
Extraction Date: 08/06/12
Analysis Date: 08/07/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave. (Former Exxon)
Project Number: 111.06134.006
Client Sample ID: Septic Tank

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
	2-Methylnaphthalene	4	µg/L
	Phenanthrene	4	µg/L
	Acenaphthene	4	µg/L
Other Target PAH Analytes	Acenaphthylene	4	µg/L
	Fluorene	4	µg/L
	Anthracene	4	µg/L
	Fluoranthene	4	µg/L
	Pyrene	4	µg/L
	Benzo[a]anthracene	4	µg/L
	Chrysene	4	µg/L
	Benzo[b]fluoranthene	4	µg/L
	Benzo[k]fluoranthene	4	µg/L
	Benzo[a]pyrene	4	µg/L
	Indeno[1,2,3-cd]pyrene	4	µg/L
	Dibenzo[a,h]anthracene	4	µg/L
Benzo[g,h,i]perylene	4	µg/L	
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)			57
Aromatic Surrogate % Recovery (O-Terphenyl)			77
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			92
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			75
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

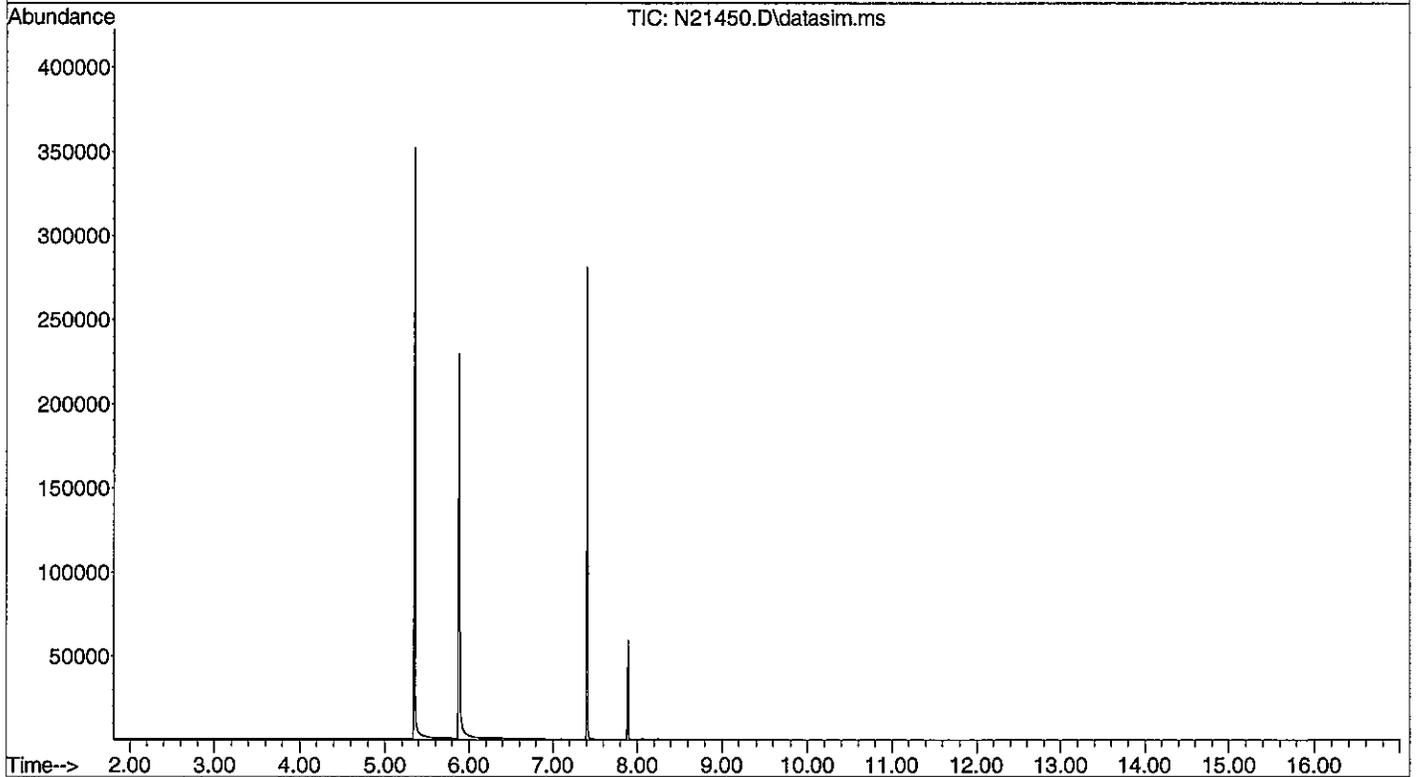
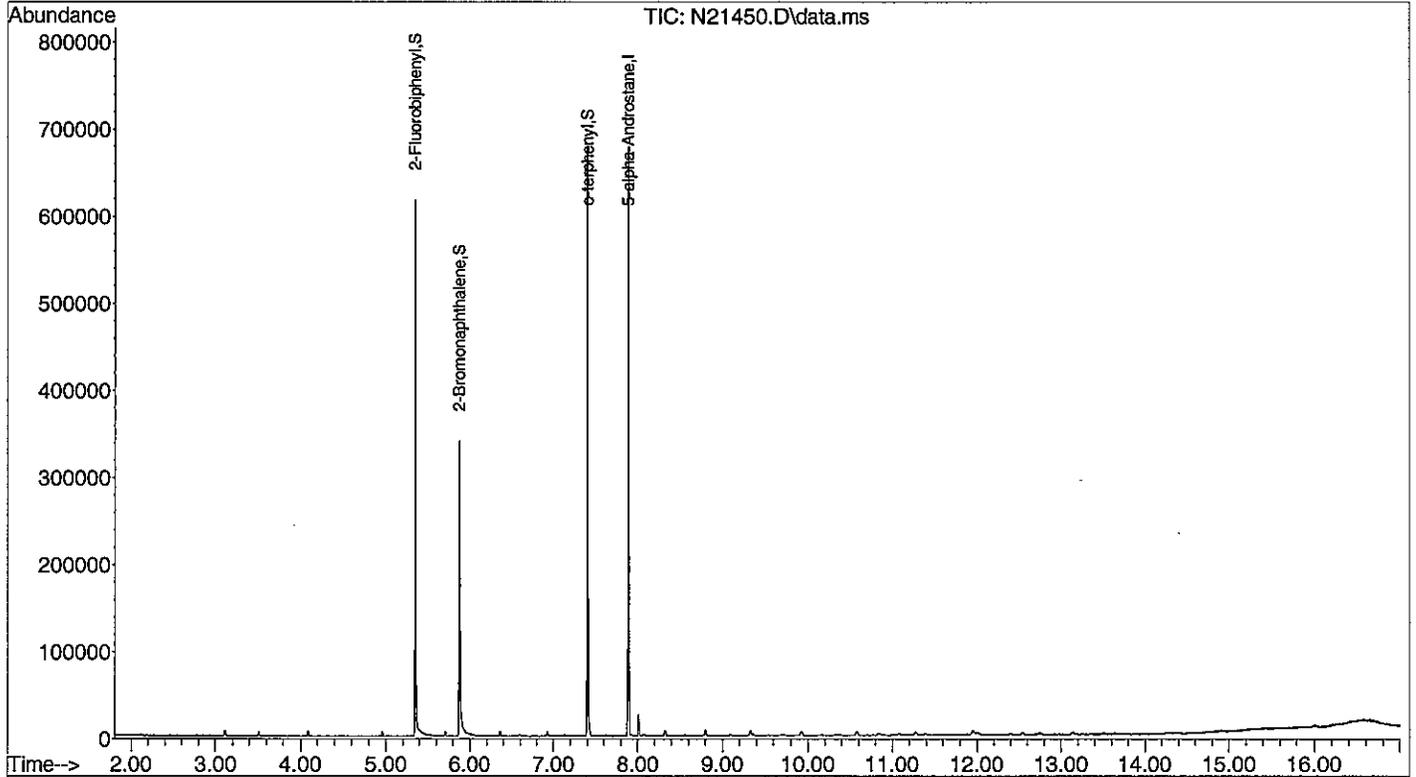
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

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 : N21450.D
 Acq On : 7 Aug 2012 8:28 pm
 Operator : AR
 Sample : 73486-1
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

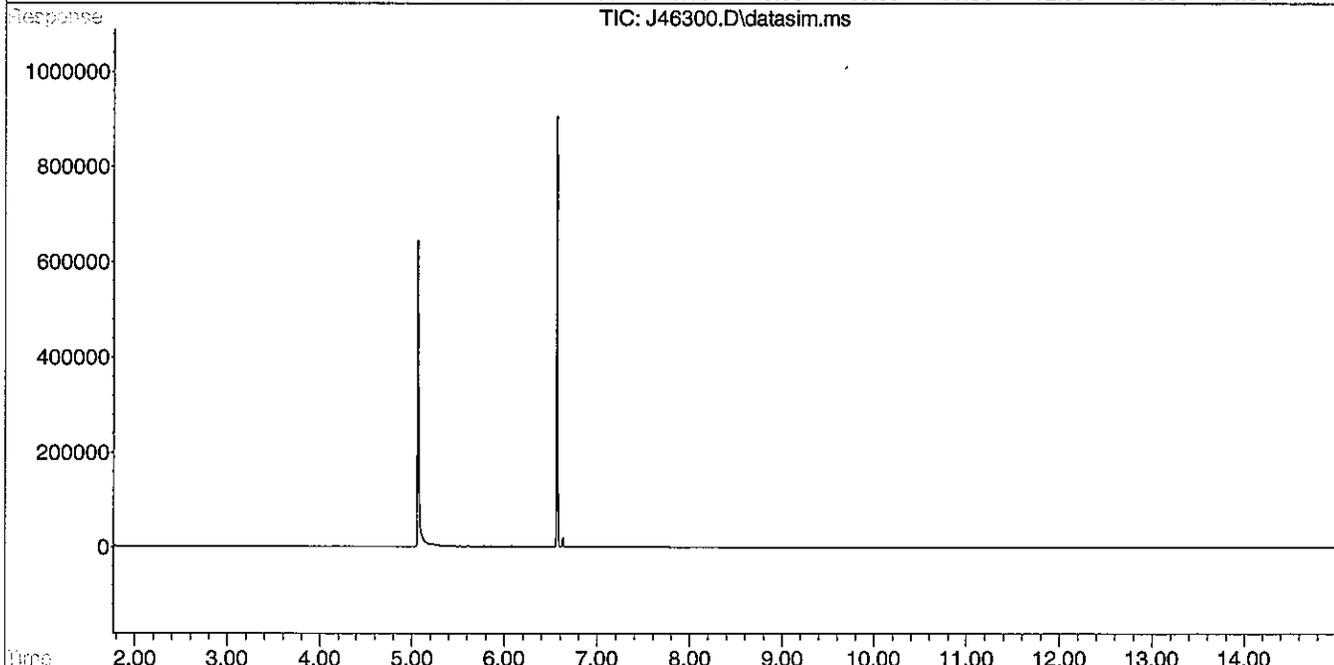
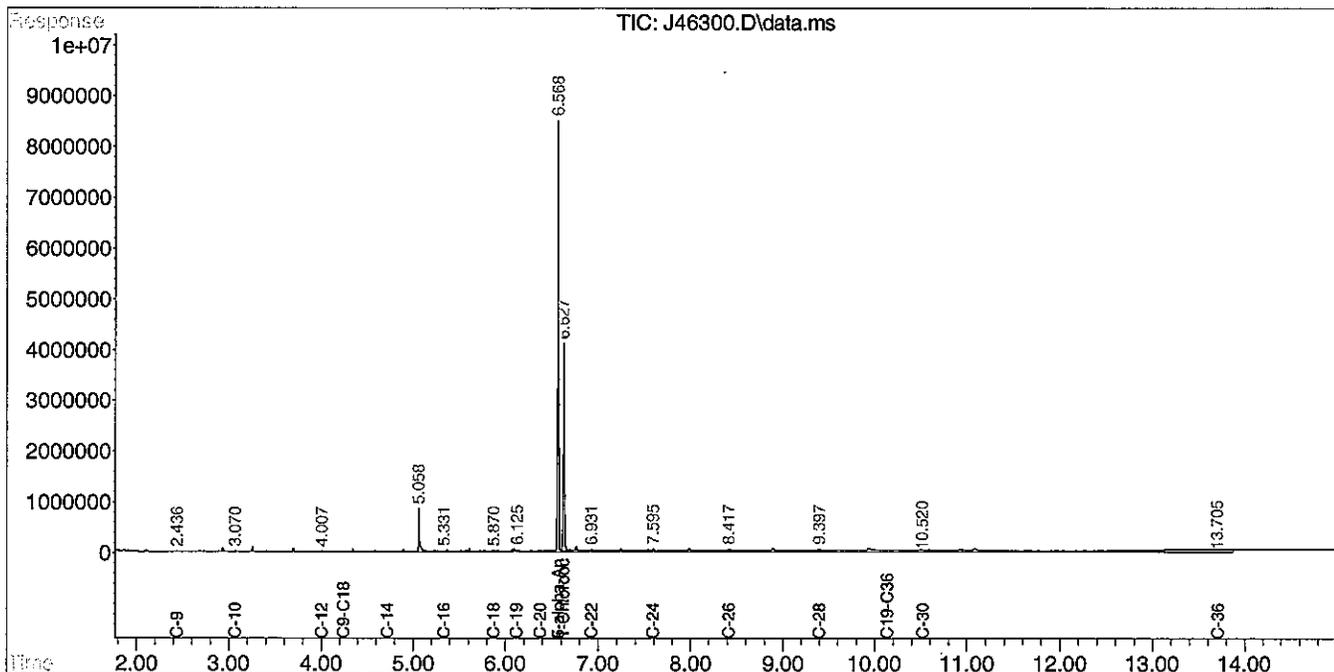
Quant Time: Aug 08 05:16:24 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:14 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080712-J\
 Data File : J46300.D
 Signal(s) : Signal #1: data.ms Signal #2: datasim.ms
 Acq On : 7 Aug 2012 9:32 pm
 Operator : AR
 Sample : 73486-1
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 08 00:04:48 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
QC FORMS

August 8, 2012

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

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

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave. (Former Exxon)
Project Number: 111.06134.006
Client Sample ID: LabQC

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
	2-Methylnaphthalene	4	µg/L
	Phenanthrene	4	µg/L
	Acenaphthene	4	µg/L
Other Target PAH Analytes	Acenaphthylene	4	µg/L
	Fluorene	4	µg/L
	Anthracene	4	µg/L
	Fluoranthene	4	µg/L
	Pyrene	4	µg/L
	Benzo[a]anthracene	4	µg/L
	Chrysene	4	µg/L
	Benzo[b]fluoranthene	4	µg/L
	Benzo[k]fluoranthene	4	µg/L
	Benzo[a]pyrene	4	µg/L
	Indeno[1,2,3-cd]pyrene	4	µg/L
	Dibenzo[a,h]anthracene	4	µg/L
Benzo[g,h,i]perylene	4	µg/L	
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			

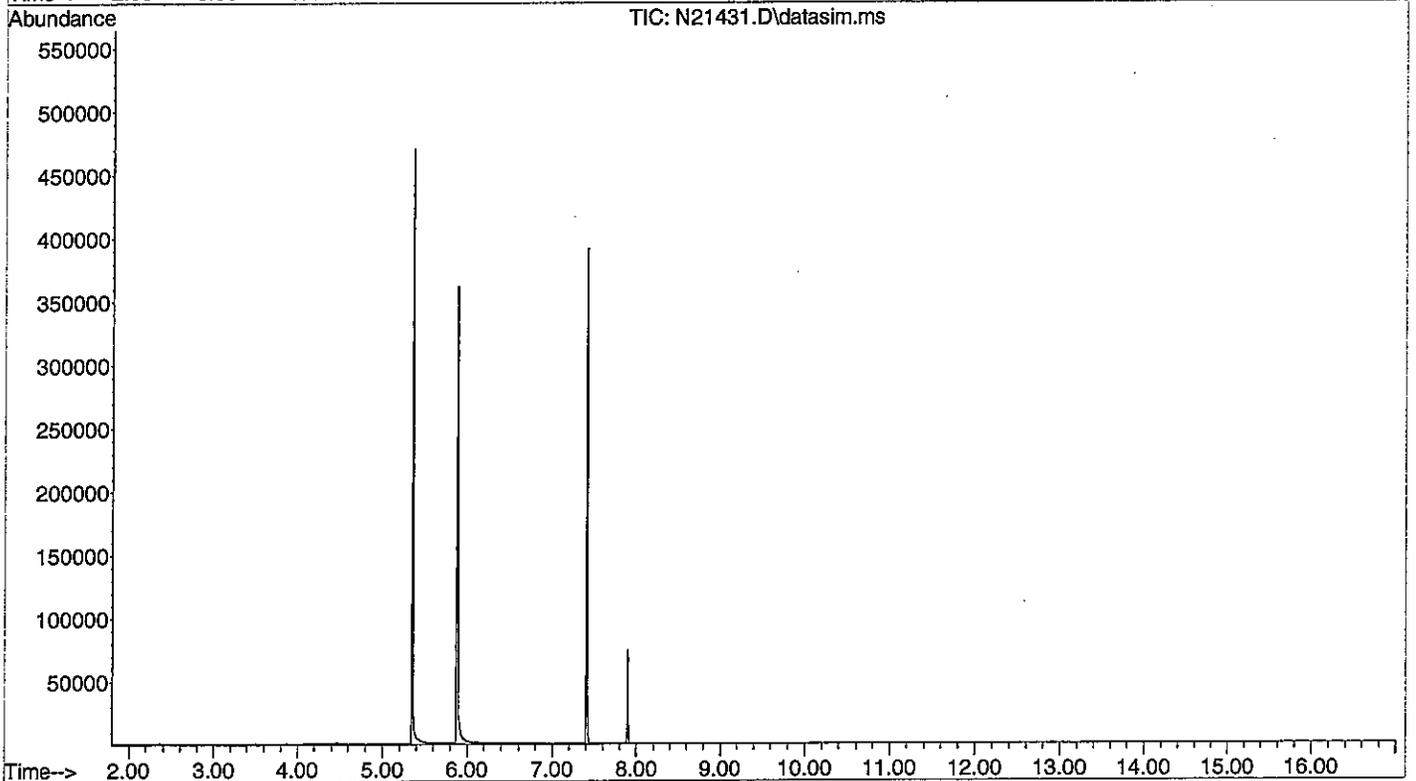
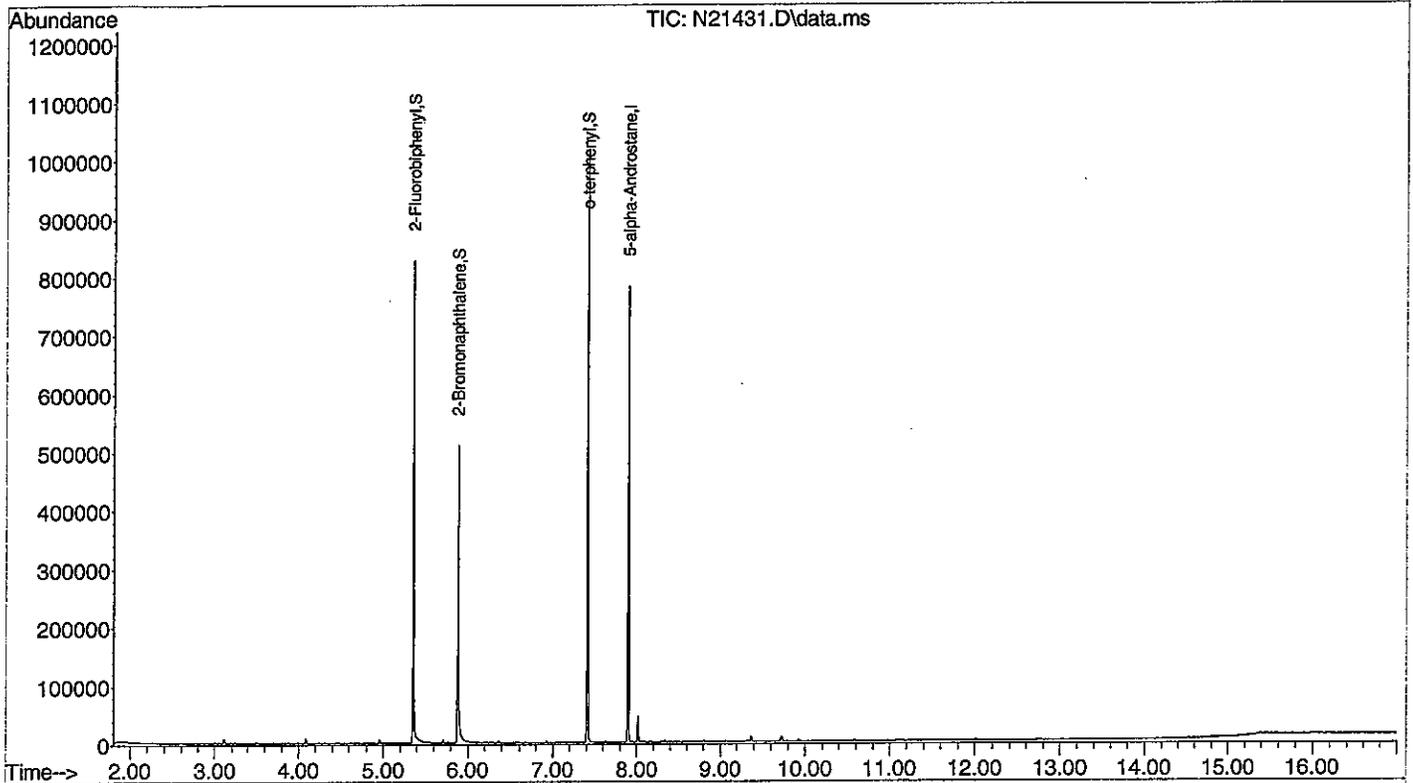
METHODOLOGY MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

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

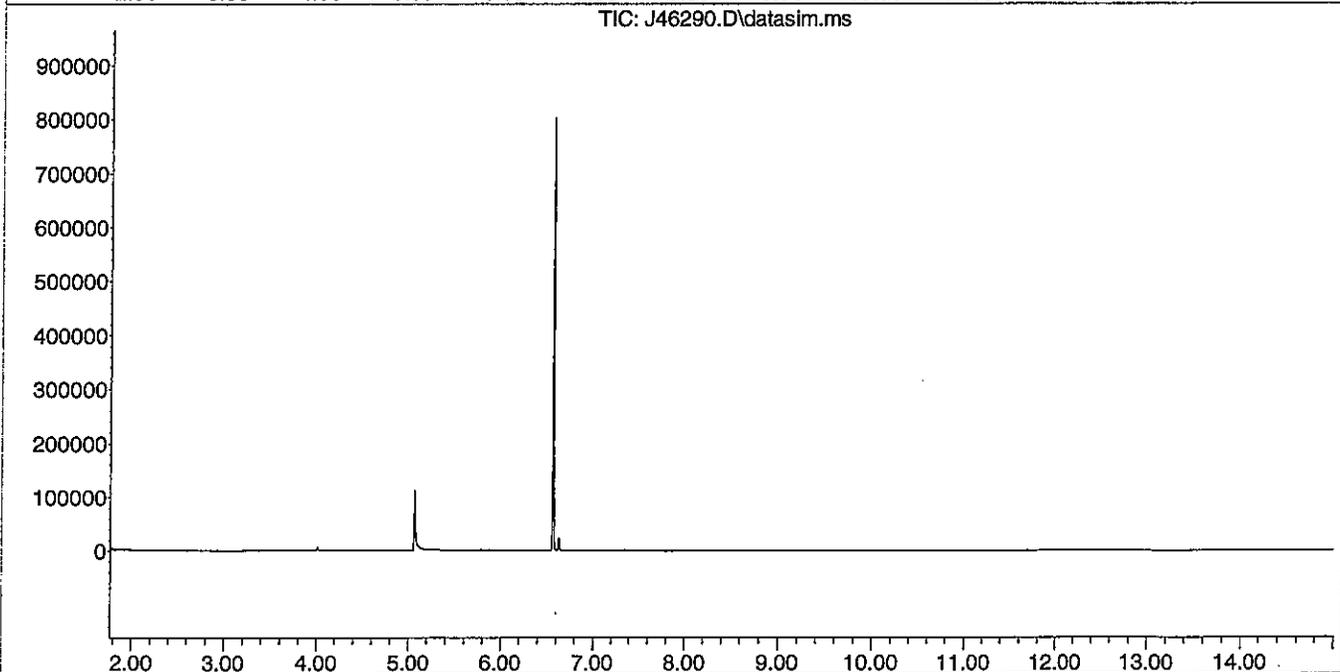
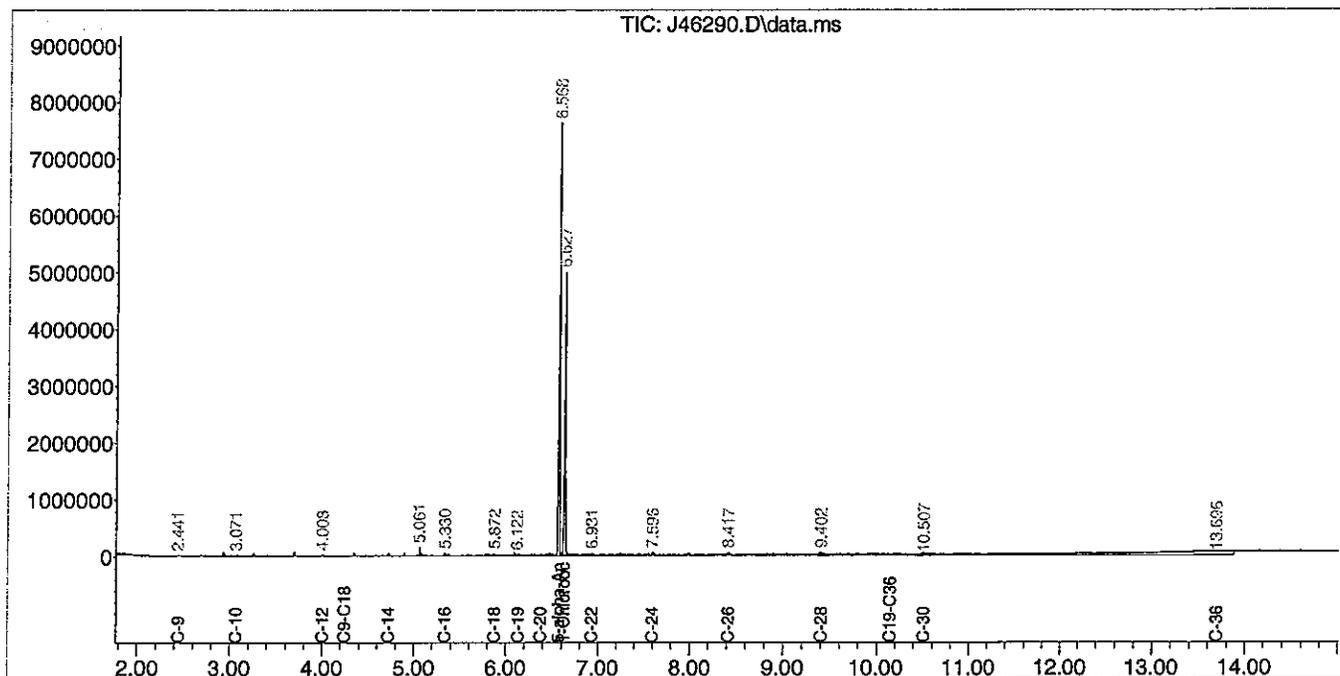
Quant Time: Aug 07 15:07:57 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration



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
 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	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP		SPIKE DUP		RPD	#
	ADDED	LIMIT	LIMIT	LIMIT	RESULT (ug/L)	RESULT (ug/L)	% REC	#	RESULT (ug/L)	% REC	#		
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-spiked result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH AROMATIC BREAKTHROUGH 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	UPPER	ALIPHATIC	AROMATIC	% BREAKTHROUGH #	
	LIMIT	LIMIT	RESULT (ug/mL)	RESULT (ug/mL)		
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 BREAKTHROUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N

SDG:

GC Column: ZB-5ms

Aliphatic LCS: LD080612EW

Column ID: 0.25 mm

Aromatic LCS: LD080612EW

COMPOUND	LOWER	UPPER	ALIPHATIC	AROMATIC	% BREAKTHROUGH	
	LIMIT	LIMIT	RESULT (ug/mL)	RESULT (ug/mL)		#
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: _____

CHAIN OF CUSTODIES

ANALYTICS SAMPLE RECEIPT CHECKLIST



AEL LAB#: 73486
 CLIENT: Ransom
 PROJECT: 29 BELMONT AVE

COOLER NUMBER: 223
 NUMBER OF COOLERS: 1

A: PRELIMINARY EXAMINATION:

1. Cooler received by (initials): W 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

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler?
 How many & where: _____ Seal Date: _____ Seal Name: _____ Y N

5. Did the custody seals arrive unbroken and intact upon arrival? Y N

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°C

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? 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/A

20. Were VOA samples absent of greater than pea-sized bubbles? Y N/A
 (Note: Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #'s: _____

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): JB Date: 8/6/12



ANALYTICAL REPORT

Lab Number:	L1214067
Client:	Ransom Environmental 400 Commercial Street Suite 404 Portland, ME 04101-4660
ATTN:	Peter Sherr
Phone:	(207) 772-2891
Project Name:	29 BELMONT AVE
Project Number:	111.06134.006
Report Date:	08/10/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: 29 BELMONT AVE
Project Number: 111.06134.006

Lab Number: L1214067
Report Date: 08/10/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1214067-01	SV102	BELFAST	08/02/12 15:21
L1214067-02	SV103	BELFAST	08/02/12 15:23

Project Name: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

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: 29 BELMONT AVE
Project Number: 111.06134.006

Lab Number: L1214067
Report Date: 08/10/12

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: 29 BELMONT AVE
Project Number: 111.06134.006

Lab Number: L1214067
Report Date: 08/10/12

Case Narrative (continued)

Canisters were released from the laboratory on July 20, 2012.

The canister certification data is provided as an addendum.

Volatile Organics in Air (SIM)

L1214067-01, -02, and WG553382-5 Duplicate have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

WG553382-5: The relative percent difference for Tetrachloroethene (47%) is above the RPD limit of 25%. This compound represented less than 10% of the compounds detected, therefore no further action was taken.

MCP Related Narratives

Petroleum Hydrocarbons in Air

In reference to question G:

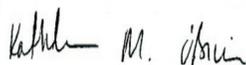
One or more of the target analytes did not achieve the requested CAM reporting limits.

L1214067-01, -02, and WG553381-5: All significant concentrations of non-petroleum VOCs detected in the TO-15 analysis were subtracted from the corresponding hydrocarbon ranges.

L1214067-01, -02, and WG553381-5 Duplicate 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: 08/10/12

AIR

Project Name: 29 BELMONT AVE**Lab Number:** L1214067**Project Number:** 111.06134.006**Report Date:** 08/10/12**SAMPLE RESULTS**

Lab ID: L1214067-01 D

Date Collected: 08/02/12 15:21

Client ID: SV102

Date Received: 08/07/12

Sample Location: BELFAST

Field Prep: Not Specified

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 08/07/12 22:39

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.447	0.243	--	2.21	1.20	--		4.862
Chloromethane	2.44	2.43	--	5.04	5.02	--		4.862
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.243	--	ND	1.70	--		4.862
Vinyl chloride	ND	0.097	--	ND	0.248	--		4.862
1,3-Butadiene	28.3	0.097	--	62.6	0.215	--		4.862
Bromomethane	ND	0.097	--	ND	0.377	--		4.862
Chloroethane	0.233	0.097	--	0.615	0.256	--		4.862
Trichlorofluoromethane	0.462	0.243	--	2.60	1.36	--		4.862
1,1-Dichloroethene	ND	0.097	--	ND	0.385	--		4.862
Methylene chloride	ND	4.86	--	ND	16.9	--		4.862
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.243	--	ND	1.86	--		4.862
trans-1,2-Dichloroethene	ND	0.097	--	ND	0.385	--		4.862
1,1-Dichloroethane	ND	0.097	--	ND	0.393	--		4.862
Methyl tert butyl ether	ND	0.097	--	ND	0.350	--		4.862
cis-1,2-Dichloroethene	ND	0.097	--	ND	0.385	--		4.862
Chloroform	0.224	0.097	--	1.09	0.475	--		4.862
1,2-Dichloroethane	ND	0.097	--	ND	0.393	--		4.862
1,1,1-Trichloroethane	ND	0.097	--	ND	0.530	--		4.862
Benzene	8.84	0.486	--	28.2	1.55	--		4.862
Carbon tetrachloride	ND	0.097	--	ND	0.611	--		4.862
1,2-Dichloropropane	ND	0.097	--	ND	0.449	--		4.862
Bromodichloromethane	ND	0.097	--	ND	0.651	--		4.862
Trichloroethene	0.097	0.097	--	0.522	0.522	--		4.862
cis-1,3-Dichloropropene	ND	0.097	--	ND	0.441	--		4.862



Project Name: 29 BELMONT AVE
Project Number: 111.06134.006

Lab Number: L1214067
Report Date: 08/10/12

SAMPLE RESULTS

Lab ID: L1214067-01 D
 Client ID: SV102
 Sample Location: BELFAST

Date Collected: 08/02/12 15:21
 Date Received: 08/07/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.097	--	ND	0.441	--		4.862
1,1,2-Trichloroethane	ND	0.097	--	ND	0.530	--		4.862
Toluene	6.93	0.243	--	26.1	0.916	--		4.862
Dibromochloromethane	ND	0.097	--	ND	0.828	--		4.862
1,2-Dibromoethane	ND	0.097	--	ND	0.747	--		4.862
Tetrachloroethene	0.160	0.097	--	1.08	0.659	--		4.862
1,1,1,2-Tetrachloroethane	ND	0.097	--	ND	0.667	--		4.862
Chlorobenzene	ND	0.097	--	ND	0.448	--		4.862
Ethylbenzene	1.45	0.097	--	6.30	0.422	--		4.862
p/m-Xylene	2.58	0.194	--	11.2	0.843	--		4.862
Bromoform	ND	0.097	--	ND	1.00	--		4.862
Styrene	1.30	0.097	--	5.53	0.414	--		4.862
1,1,2,2-Tetrachloroethane	ND	0.097	--	ND	0.667	--		4.862
o-Xylene	1.22	0.097	--	5.30	0.422	--		4.862
1,3,5-Trimethylbenzene	0.204	0.097	--	1.00	0.478	--		4.862
1,2,4-Trimethylbenzene	0.729	0.097	--	3.58	0.478	--		4.862
1,3-Dichlorobenzene	ND	0.097	--	ND	0.584	--		4.862
1,4-Dichlorobenzene	ND	0.097	--	ND	0.584	--		4.862
1,2-Dichlorobenzene	ND	0.097	--	ND	0.584	--		4.862
1,2,4-Trichlorobenzene	ND	0.243	--	ND	1.80	--		4.862
Hexachlorobutadiene	ND	0.243	--	ND	2.59	--		4.862

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	113		60-140
chlorobenzene-d5	104		60-140



Project Name: 29 BELMONT AVE**Lab Number:** L1214067**Project Number:** 111.06134.006**Report Date:** 08/10/12**SAMPLE RESULTS**

Lab ID: L1214067-02 D

Date Collected: 08/02/12 15:23

Client ID: SV103

Date Received: 08/07/12

Sample Location: BELFAST

Field Prep: Not Specified

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 08/07/12 23:11

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.458	0.246	--	2.26	1.22	--		4.926
Chloromethane	2.56	2.46	--	5.29	5.08	--		4.926
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.246	--	ND	1.72	--		4.926
Vinyl chloride	ND	0.099	--	ND	0.252	--		4.926
1,3-Butadiene	32.2	0.099	--	71.2	0.218	--		4.926
Bromomethane	ND	0.099	--	ND	0.382	--		4.926
Chloroethane	0.232	0.099	--	0.612	0.260	--		4.926
Trichlorofluoromethane	0.453	0.246	--	2.54	1.38	--		4.926
1,1-Dichloroethene	ND	0.099	--	ND	0.390	--		4.926
Methylene chloride	ND	4.93	--	ND	17.1	--		4.926
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.246	--	ND	1.88	--		4.926
trans-1,2-Dichloroethene	ND	0.099	--	ND	0.390	--		4.926
1,1-Dichloroethane	ND	0.099	--	ND	0.399	--		4.926
Methyl tert butyl ether	ND	0.099	--	ND	0.355	--		4.926
cis-1,2-Dichloroethene	ND	0.099	--	ND	0.390	--		4.926
Chloroform	0.251	0.099	--	1.22	0.481	--		4.926
1,2-Dichloroethane	ND	0.099	--	ND	0.399	--		4.926
1,1,1-Trichloroethane	ND	0.099	--	ND	0.537	--		4.926
Benzene	8.98	0.493	--	28.7	1.57	--		4.926
Carbon tetrachloride	ND	0.099	--	ND	0.620	--		4.926
1,2-Dichloropropane	ND	0.099	--	ND	0.455	--		4.926
Bromodichloromethane	ND	0.099	--	ND	0.660	--		4.926
Trichloroethene	0.197	0.099	--	1.06	0.529	--		4.926
cis-1,3-Dichloropropene	ND	0.099	--	ND	0.447	--		4.926



Project Name: 29 BELMONT AVE**Lab Number:** L1214067**Project Number:** 111.06134.006**Report Date:** 08/10/12**SAMPLE RESULTS**

Lab ID: L1214067-02 D

Date Collected: 08/02/12 15:23

Client ID: SV103

Date Received: 08/07/12

Sample Location: BELFAST

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.099	--	ND	0.447	--		4.926
1,1,2-Trichloroethane	ND	0.099	--	ND	0.537	--		4.926
Toluene	7.12	0.246	--	26.8	0.927	--		4.926
Dibromochloromethane	ND	0.099	--	ND	0.839	--		4.926
1,2-Dibromoethane	ND	0.099	--	ND	0.757	--		4.926
Tetrachloroethene	0.167	0.099	--	1.13	0.668	--		4.926
1,1,1,2-Tetrachloroethane	ND	0.099	--	ND	0.676	--		4.926
Chlorobenzene	ND	0.099	--	ND	0.454	--		4.926
Ethylbenzene	1.46	0.099	--	6.34	0.428	--		4.926
p/m-Xylene	2.44	0.197	--	10.6	0.856	--		4.926
Bromoform	ND	0.099	--	ND	1.02	--		4.926
Styrene	1.36	0.099	--	5.79	0.419	--		4.926
1,1,2,2-Tetrachloroethane	ND	0.099	--	ND	0.676	--		4.926
o-Xylene	1.14	0.099	--	4.95	0.428	--		4.926
1,3,5-Trimethylbenzene	0.192	0.099	--	0.944	0.484	--		4.926
1,2,4-Trimethylbenzene	0.690	0.099	--	3.39	0.484	--		4.926
1,3-Dichlorobenzene	ND	0.099	--	ND	0.592	--		4.926
1,4-Dichlorobenzene	ND	0.099	--	ND	0.592	--		4.926
1,2-Dichlorobenzene	0.217	0.099	--	1.30	0.592	--		4.926
1,2,4-Trichlorobenzene	ND	0.246	--	ND	1.83	--		4.926
Hexachlorobutadiene	ND	0.246	--	ND	2.62	--		4.926

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	105		60-140



Project Name: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 08/07/12 14:52

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 08/07/12 14:52

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
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: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
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
1,1,1,2,2-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: 29 BELMONT AVE

Project Number: 111.06134.006

Lab Number: L1214067

Report Date: 08/10/12

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: 29 BELMONT AVE

Project Number: 111.06134.006

Lab Number: L1214067

Report Date: 08/10/12

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: SV103						
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: 29 BELMONT AVE

Project Number: 111.06134.006

Lab Number: L1214067

Report Date: 08/10/12

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: SV103					
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: 29 BELMONT AVE

Project Number: 111.06134.006

Lab Number: L1214067

Report Date: 08/10/12

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: SV103					
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: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

SAMPLE RESULTS

Lab ID: L1214067-01 D
 Client ID: SV102
 Sample Location: BELFAST
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 08/07/12 22:39
 Analyst: MB

Date Collected: 08/02/12 15:21
 Date Received: 08/07/12
 Field Prep: Not Specified

Quality Control Information

Sample Type: 20 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	63		ug/m3	9.8	--	4.9
Methyl tert butyl ether	ND		ug/m3	9.8	--	4.9
Benzene	31		ug/m3	9.8	--	4.9
C5-C8 Aliphatics, Adjusted	2900		ug/m3	59	--	4.9
Toluene	26		ug/m3	9.8	--	4.9
Ethylbenzene	ND		ug/m3	9.8	--	4.9
p/m-Xylene	ND		ug/m3	20	--	4.9
o-Xylene	ND		ug/m3	9.8	--	4.9
Naphthalene	ND		ug/m3	9.8	--	4.9
C9-C12 Aliphatics, Adjusted	610		ug/m3	69	--	4.9
C9-C10 Aromatics Total	ND		ug/m3	49	--	4.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		50-200
Bromochloromethane	104		50-200
Chlorobenzene-d5	96		50-200

Project Name: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

SAMPLE RESULTS

Lab ID: L1214067-02 D
 Client ID: SV103
 Sample Location: BELFAST
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 08/07/12 23:11
 Analyst: MB

Date Collected: 08/02/12 15:23
 Date Received: 08/07/12
 Field Prep: Not Specified

Quality Control Information

Sample Type: 20 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	69		ug/m3	9.8	--	4.9
Methyl tert butyl ether	ND		ug/m3	9.8	--	4.9
Benzene	31		ug/m3	9.8	--	4.9
C5-C8 Aliphatics, Adjusted	2700		ug/m3	59	--	4.9
Toluene	26		ug/m3	9.8	--	4.9
Ethylbenzene	ND		ug/m3	9.8	--	4.9
p/m-Xylene	ND		ug/m3	20	--	4.9
o-Xylene	ND		ug/m3	9.8	--	4.9
Naphthalene	ND		ug/m3	9.8	--	4.9
C9-C12 Aliphatics, Adjusted	660		ug/m3	69	--	4.9
C9-C10 Aromatics Total	ND		ug/m3	49	--	4.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		50-200
Bromochloromethane	97		50-200
Chlorobenzene-d5	96		50-200

Project Name: 29 BELMONT AVE

Lab Number: L1214067

Project Number: 111.06134.006

Report Date: 08/10/12

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: 29 BELMONT AVE

Project Number: 111.06134.006

Lab Number: L1214067

Report Date: 08/10/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
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: 29 BELMONT AVE

Project Number: 111.06134.006

Lab Number: L1214067

Report Date: 08/10/12

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: SV103						
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: 29 BELMONT AVE

Project Number: 111.06134.006

Serial_No:08101210:28
Lab Number: L1214067

Report Date: 08/10/12

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 Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1214067-01	SV102	0047	#30 SV	07/20/12	79650		-	-	-	-	39	39	0
L1214067-01	SV102	818	1.0L Can	07/20/12	79650	L1211257-02	Pass	-28.0	-3.6	-	-	-	-
L1214067-02	SV103	0441	#90 SV	07/20/12	79650		-	-	-	-	40	37	8
L1214067-02	SV103	830	1.0L Can	07/20/12	79650	L1211257-02	Pass	-28.6	-3.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/10/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 06/28/12 17:58
 Analyst: RY

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		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
Methylene chloride	ND	1.00	--	ND	3.47	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/10/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
Trichloroethene	ND	0.200	--	ND	1.07	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/10/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/10/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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-Trimethylbenzene	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/10/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 06/27/12 18:05
 Analyst: MB

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	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



Project Name: BATCH CANISTER CERTIFICATION

Lab Number: L1211257

Project Number: CANISTER QC BAT

Report Date: 08/10/12

Air Canister Certification Results

Lab ID: L1211257-02

Date Collected: 06/21/12 14:07

Client ID: CAN 818 SHELF 3

Date Received: 06/21/12

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-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
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**Lab Number:** L1211257**Project Number:** CANISTER QC BAT**Report Date:** 08/10/12**Air Canister Certification Results**

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	84		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	84		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1211257**Project Number:** CANISTER QC BAT**Report Date:** 08/10/12**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1211257-02
Client ID: CAN 818 SHELF 3
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 06/27/12 18:05
Analyst: MB

Date Collected: 06/21/12 14:07
Date Received: 06/21/12
Field Prep: Not Specified

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: 29 BELMONT AVE**Lab Number:** L1214067**Project Number:** 111.06134.006**Report Date:** 08/10/12**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(*)
L1214067-01A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),TO15-SIM(30)
L1214067-02A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name: 29 BELMONT AVE
Project Number: 111.06134.006

Lab Number: L1214067
Report Date: 08/10/12

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: 29 BELMONT AVE
Project Number: 111.06134.006

Lab Number: L1214067
Report Date: 08/10/12

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.

Project Name: 29 BELMONT AVE
Project Number: 111.06134.006

Lab Number: L1214067
Report Date: 08/10/12

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.



ANALYTICAL REPORT

Lab Number:	L1213546
Client:	Ransom Environmental 400 Commercial Street Suite 404 Portland, ME 04101-4660
ATTN:	Peter Sherr
Phone:	(207) 772-2891
Project Name:	29 BELMONT AVE.
Project Number:	111.06134
Report Date:	08/03/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1213546-01	SV101	BELFAST, ME	07/25/12 14:53

Project Name: 29 BELMONT AVE.

Lab Number: L1213546

Project Number: 111.06134

Report Date: 08/03/12

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: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

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: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

Case Narrative (continued)

Canisters were released from the laboratory on July 20, 2012.

The canister certification data is provided as an addendum.

Volatile Organics in Air (SIM)

L1213546-01 and WG552329-5 Duplicate have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

MCP Related Narratives

Petroleum Hydrocarbons in Air

In reference to question G:

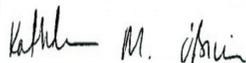
One or more of the target analytes did not achieve the requested CAM reporting limits.

All significant concentrations of non-petroleum VOCs detected in the TO-15 analysis were subtracted from the corresponding hydrocarbon ranges.

L1213546-01 and WG552327-5 Duplicate 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: 08/03/12

AIR

Project Name: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

SAMPLE RESULTS

Lab ID: L1213546-01 D
 Client ID: SV101
 Sample Location: BELFAST, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 08/02/12 00:15
 Analyst: RY

Date Collected: 07/25/12 14:53
 Date Received: 07/27/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	194	1.20	--	959	5.93	--		24.11
Chloromethane	ND	12.0	--	ND	24.8	--		24.11
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.20	--	ND	8.39	--		24.11
Vinyl chloride	ND	0.482	--	ND	1.23	--		24.11
1,3-Butadiene	4.44	0.482	--	9.82	1.07	--		24.11
Bromomethane	ND	0.482	--	ND	1.87	--		24.11
Chloroethane	ND	0.482	--	ND	1.27	--		24.11
Trichlorofluoromethane	ND	1.20	--	ND	6.74	--		24.11
1,1-Dichloroethene	ND	0.482	--	ND	1.91	--		24.11
Methylene chloride	ND	24.1	--	ND	83.7	--		24.11
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.20	--	ND	9.20	--		24.11
trans-1,2-Dichloroethene	ND	0.482	--	ND	1.91	--		24.11
1,1-Dichloroethane	ND	0.482	--	ND	1.95	--		24.11
Methyl tert butyl ether	ND	0.482	--	ND	1.74	--		24.11
cis-1,2-Dichloroethene	ND	0.482	--	ND	1.91	--		24.11
Chloroform	ND	0.482	--	ND	2.35	--		24.11
1,2-Dichloroethane	ND	0.482	--	ND	1.95	--		24.11
1,1,1-Trichloroethane	ND	0.482	--	ND	2.63	--		24.11
Benzene	3.33	2.41	--	10.6	7.70	--		24.11
Carbon tetrachloride	ND	0.482	--	ND	3.03	--		24.11
1,2-Dichloropropane	ND	0.482	--	ND	2.23	--		24.11
Bromodichloromethane	ND	0.482	--	ND	3.23	--		24.11
Trichloroethene	ND	0.482	--	ND	2.59	--		24.11
cis-1,3-Dichloropropene	ND	0.482	--	ND	2.19	--		24.11



Project Name: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

SAMPLE RESULTS

Lab ID: L1213546-01 D
 Client ID: SV101
 Sample Location: BELFAST, ME

Date Collected: 07/25/12 14:53
 Date Received: 07/27/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.482	--	ND	2.19	--		24.11
1,1,2-Trichloroethane	ND	0.482	--	ND	2.63	--		24.11
Toluene	13.2	1.20	--	49.7	4.52	--		24.11
Dibromochloromethane	ND	0.482	--	ND	4.11	--		24.11
1,2-Dibromoethane	ND	0.482	--	ND	3.70	--		24.11
Tetrachloroethene	ND	0.482	--	ND	3.27	--		24.11
1,1,1,2-Tetrachloroethane	ND	0.482	--	ND	3.31	--		24.11
Chlorobenzene	ND	0.482	--	ND	2.22	--		24.11
Ethylbenzene	69.9	0.482	--	304	2.09	--		24.11
p/m-Xylene	196	0.964	--	851	4.19	--		24.11
Bromoform	ND	0.482	--	ND	4.98	--		24.11
Styrene	0.916	0.482	--	3.90	2.05	--		24.11
1,1,2,2-Tetrachloroethane	ND	0.482	--	ND	3.31	--		24.11
o-Xylene	252	0.482	--	1090	2.09	--		24.11
1,3,5-Trimethylbenzene	299	0.482	--	1470	2.37	--		24.11
1,2,4-Trimethylbenzene	358	0.482	--	1760	2.37	--		24.11
1,3-Dichlorobenzene	ND	0.482	--	ND	2.90	--		24.11
1,4-Dichlorobenzene	ND	0.482	--	ND	2.90	--		24.11
1,2-Dichlorobenzene	ND	0.482	--	ND	2.90	--		24.11
1,2,4-Trichlorobenzene	ND	1.20	--	ND	8.91	--		24.11
Hexachlorobutadiene	ND	1.20	--	ND	12.8	--		24.11

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	132		60-140



Project Name: 29 BELMONT AVE.

Lab Number: L1213546

Project Number: 111.06134

Report Date: 08/03/12

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 08/01/12 16:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG552329-4								
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
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		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	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



Project Name: 29 BELMONT AVE.

Lab Number: L1213546

Project Number: 111.06134

Report Date: 08/03/12

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 08/01/12 16:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG552329-4								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
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-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
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: 29 BELMONT AVE.

Lab Number: L1213546

Project Number: 111.06134

Report Date: 08/03/12

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 08/01/12 16:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG552329-4								
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
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 29 BELMONT AVE.

Lab Number: L1213546

Project Number: 111.06134

Report Date: 08/03/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG552329-3								
Dichlorodifluoromethane	105		-		70-130	-		25
Chloromethane	107		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	109		-		70-130	-		25
Vinyl chloride	108		-		70-130	-		25
1,3-Butadiene	116		-		70-130	-		25
Bromomethane	105		-		70-130	-		25
Chloroethane	108		-		70-130	-		25
Acetone	110		-		70-130	-		25
Trichlorofluoromethane	108		-		70-130	-		25
Acrylonitrile	103		-		70-130	-		25
1,1-Dichloroethene	109		-		70-130	-		25
Methylene chloride	109		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		-		70-130	-		25
Halothane	108		-		70-130	-		25
trans-1,2-Dichloroethene	100		-		70-130	-		25
1,1-Dichloroethane	109		-		70-130	-		25
Methyl tert butyl ether	111		-		70-130	-		25
2-Butanone	105		-		70-130	-		25
cis-1,2-Dichloroethene	117		-		70-130	-		25
Chloroform	105		-		70-130	-		25
1,2-Dichloroethane	109		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 29 BELMONT AVE.

Lab Number: L1213546

Project Number: 111.06134

Report Date: 08/03/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG552329-3								
1,1,1-Trichloroethane	107		-		70-130	-		25
Benzene	92		-		70-130	-		25
Carbon tetrachloride	111		-		70-130	-		25
1,2-Dichloropropane	104		-		70-130	-		25
Bromodichloromethane	107		-		70-130	-		25
Trichloroethene	104		-		70-130	-		25
1,4-Dioxane	100		-		70-130	-		25
cis-1,3-Dichloropropene	117		-		70-130	-		25
4-Methyl-2-pentanone	107		-		70-130	-		25
trans-1,3-Dichloropropene	103		-		70-130	-		25
1,1,2-Trichloroethane	107		-		70-130	-		25
Toluene	103		-		70-130	-		25
Dibromochloromethane	113		-		70-130	-		25
1,2-Dibromoethane	109		-		70-130	-		25
Tetrachloroethene	106		-		70-130	-		25
1,1,1,2-Tetrachloroethane	107		-		70-130	-		25
Chlorobenzene	108		-		70-130	-		25
Ethylbenzene	108		-		70-130	-		25
p/m-Xylene	108		-		70-130	-		25
Bromoform	114		-		70-130	-		25
Styrene	103		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 29 BELMONT AVE.

Project Number: 111.06134

Lab Number: L1213546

Report Date: 08/03/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG552329-3								
1,1,2,2-Tetrachloroethane	112		-		70-130	-		25
o-Xylene	110		-		70-130	-		25
Isopropylbenzene	106		-		70-130	-		25
1,3,5-Trimethylbenzene	111		-		70-130	-		25
1,2,4-Trimethylbenzene	114		-		70-130	-		25
1,3-Dichlorobenzene	112		-		70-130	-		25
1,4-Dichlorobenzene	111		-		70-130	-		25
sec-Butylbenzene	106		-		70-130	-		25
p-Isopropyltoluene	100		-		70-130	-		25
1,2-Dichlorobenzene	112		-		70-130	-		25
n-Butylbenzene	112		-		70-130	-		25
1,2,4-Trichlorobenzene	121		-		70-130	-		25
Naphthalene	116		-		70-130	-		25
1,2,3-Trichlorobenzene	114		-		70-130	-		25
Hexachlorobutadiene	114		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 29 BELMONT AVE.

Project Number: 111.06134

Lab Number: L1213546

Report Date: 08/03/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG552329-5 QC Sample: L1213546-01 Client ID: SV101						
Dichlorodifluoromethane	194	192	ppbV	1		25
Chloromethane	ND	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	4.44	4.63	ppbV	4		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Trichlorofluoromethane	ND	ND	ppbV	NC		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	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	3.33	3.01	ppbV	10		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 29 BELMONT AVE.

Project Number: 111.06134

Lab Number: L1213546

Report Date: 08/03/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG552329-5 QC Sample: L1213546-01 Client ID: SV101					
Carbon tetrachloride	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	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	13.2	12.4	ppbV	6	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	69.9	65.4	ppbV	7	25
p/m-Xylene	196	183	ppbV	7	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.916	0.868	ppbV	5	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	252	236	ppbV	7	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 29 BELMONT AVE.

Project Number: 111.06134

Lab Number: L1213546

Report Date: 08/03/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG552329-5 QC Sample: L1213546-01 Client ID: SV101					
1,3,5-Trimethylbenzene	299	288	ppbV	4	25
1,2,4-Trimethylbenzene	358	338	ppbV	6	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: 29 BELMONT AVE.

Lab Number: L1213546

Project Number: 111.06134

Report Date: 08/03/12

SAMPLE RESULTS

Lab ID: L1213546-01 D
 Client ID: SV101
 Sample Location: BELFAST, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 08/02/12 00:15
 Analyst: MB

Date Collected: 07/25/12 14:53
 Date Received: 07/27/12
 Field Prep: Not Specified

Quality Control Information

Sample Type: 20 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	48	--	24
Methyl tert butyl ether	ND		ug/m3	48	--	24
Benzene	ND		ug/m3	48	--	24
C5-C8 Aliphatics, Adjusted	390000		ug/m3	290	--	24
Toluene	55		ug/m3	48	--	24
Ethylbenzene	310		ug/m3	48	--	24
p/m-Xylene	880		ug/m3	96	--	24
o-Xylene	1100		ug/m3	48	--	24
Naphthalene	ND		ug/m3	48	--	24
C9-C12 Aliphatics, Adjusted	16000		ug/m3	340	--	24
C9-C10 Aromatics Total	13000		ug/m3	240	--	24

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		50-200
Bromochloromethane	99		50-200
Chlorobenzene-d5	115		50-200

Project Name: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH
Analytical Date: 08/01/12 16:01
Analyst: MB

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01 Batch: WG552327-4					
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: 29 BELMONT AVE.

Project Number: 111.06134

Lab Number: L1213546

Report Date: 08/03/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01 Batch: WG552327-3								
1,3-Butadiene	98		-		70-130	-		
Methyl tert butyl ether	98		-		70-130	-		
Benzene	93		-		70-130	-		
C5-C8 Aliphatics, Adjusted	92		-		70-130	-		
Toluene	89		-		70-130	-		
Ethylbenzene	91		-		70-130	-		
p/m-Xylene	90		-		70-130	-		
o-Xylene	92		-		70-130	-		
Naphthalene	110		-		50-150	-		
C9-C12 Aliphatics, Adjusted	94		-		70-130	-		
C9-C10 Aromatics Total	80		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: 29 BELMONT AVE.

Project Number: 111.06134

Lab Number: L1213546

Report Date: 08/03/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG552327-5 QC Sample: L1213546-01 Client ID: SV101						
1,3-Butadiene	ND	ND	ug/m3	NC		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	ND	ND	ug/m3	NC		30
C5-C8 Aliphatics, Adjusted	390000	340000	ug/m3	14		30
Toluene	55	48	ug/m3	14		30
Ethylbenzene	310	280	ug/m3	10		30
p/m-Xylene	880	790	ug/m3	11		30
o-Xylene	1100	1000	ug/m3	10		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	16000	20000	ug/m3	22		30
C9-C10 Aromatics Total	13000	11000	ug/m3	17		30

Project Name: 29 BELMONT AVE.

Project Number: 111.06134

Serial_No:08031213:32
Lab Number: L1213546

Report Date: 08/03/12

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 Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1213546-01	SV101	0036	#30 SV	07/20/12	79650		-	-	-	-	39	42	7
L1213546-01	SV101	812	1.0L Can	07/20/12	79650	L1211257-02	Pass	-28.6	-4.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/03/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 06/28/12 17:58
 Analyst: RY

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		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
Methylene chloride	ND	1.00	--	ND	3.47	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/03/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
Trichloroethene	ND	0.200	--	ND	1.07	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/03/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/03/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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-Trimethylbenzene	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/03/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 06/27/12 18:05
 Analyst: MB

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1211257
Report Date: 08/03/12

Air Canister Certification Results

Lab ID: L1211257-02
 Client ID: CAN 818 SHELF 3
 Sample Location:

Date Collected: 06/21/12 14:07
 Date Received: 06/21/12
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-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
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: L1211257
Report Date: 08/03/12

Air Canister Certification Results

Lab ID: L1211257-02 Date Collected: 06/21/12 14:07
 Client ID: CAN 818 SHELF 3 Date Received: 06/21/12
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	84		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	84		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1211257**Project Number:** CANISTER QC BAT**Report Date:** 08/03/12**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1211257-02
Client ID: CAN 818 SHELF 3
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 06/27/12 18:05
Analyst: MB

Date Collected: 06/21/12 14:07
Date Received: 06/21/12
Field Prep: Not Specified

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: 29 BELMONT AVE.**Lab Number:** L1213546**Project Number:** 111.06134**Report Date:** 08/03/12**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 Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1213546-01A	Canister - 1 Liter	N/A	N/A		Y	Absent	APH-10(30),TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

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: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

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.

Project Name: 29 BELMONT AVE.
Project Number: 111.06134

Lab Number: L1213546
Report Date: 08/03/12

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 May 10, 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. Organic Parameters: EPA 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 3060A, 6020A, 7470A, 7471B, 9040B, 9045C, 7196A. 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, 9040B, 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, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15)

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, 245.7, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 **NELAP Accredited**

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ.**

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, 7196, 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, SM4500H-B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B.)

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 Mod, 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.



August 9, 2012

environmental
laboratory LLC

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Mr. Erik Phenix
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

**RE: Analytical Results Case Narrative
29 Belmont Ave Belfast
Project No: 111.06134
Analytics #73421**

Dear Mr. Phenix:

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.

The continuing calibration standard (file#B91303SC) had %D greater than 20% for Chloromethane. The laboratory control samples (L8072712B/L8072712B2) were in control for all analytes. Results were reported without qualification.

The continuing calibration standard (file#B91337SC) had %D greater than 20% for t-Butyl alcohol and Carbon disulfide. The laboratory control samples (L8073012B/L8073012B2) were in control for all analytes. Results were reported without qualification.

The continuing calibration standard (file#C83112SC) had %D greater than 20% for Dichlorodifluoromethane, Bromomethane, Chloroethane and 1,4-Dioxane. The laboratory control samples (LS080312C/LS080312C2) had some analytes with high recoveries. These analytes were not detected in any samples for this SDG and results were reported without qualification.

The laboratory blank analyzed 08/06/2012 had Chloromethane detected below the quantitation limit. Sample 73421-4 had Chloromethane detected. The sample was reanalyzed with similar results. The Chloromethane result was qualified with a "B" flag and a comment to this affect. The laboratory control samples (LS080612C/LS080612C2) had low recoveries for Vinyl chloride. All other analytes were in control. Results were reported without qualification.

Volatile Petroleum Hydrocarbons (VPH):

No results were reported below the quantitation limit for the C9-C10 Aromatic Hydrocarbon range.

Samples 73421-5 and 73421-11 required dilution due to concentrations of target analytes that exceeded the calibration range of the instrument.

Extractable Petroleum Hydrocarbons (EPH):

Sample 73421-5 was 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 aliphatic and aromatics (files# N21283SC & N21284SC) had one compound with %D greater than the acceptance criteria. This is within the method allowed exceptions and results were reported without qualification.

The laboratory control samples (L073012EASE/LD073012EASE) had low recoveries for C-36 alkane. All other analytes were in control. Results were reported without qualification.

PCBs by EPA 8082:

No results were reported below the Quantitation Limit.

Selected Metals by EPA Method 6010B:

The laboratory control samples analyzed 07/27/12 (L072712MS/LD072712MS) had high RPD for Arsenic. Results for Arsenic were reported with a comment to this affect.

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

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

Report Number: 73421

Revision: Rev. 0

Re: 29 Belmont Ave., Belfast (Project No: 111.06134)

Enclosed are the results of the analyses on your sample(s). Samples were received on 26 July 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 Department 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

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CLIENT: Ransom Consulting, Inc.

REPORT NUMBER: 73421

REV: Rev. 0

PROJECT: 29 Belmont Ave., Belfast (Project No: 111.06134)

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
73421-1	07/25/12	B101-S3	Metals	
	07/25/12	B101-S3	Volatile Petroleum Hydrocarbons	
73421-2	07/25/12	B103-S5	Metals	
	07/25/12	B103-S5	Volatile Petroleum Hydrocarbons	
73421-3	07/25/12	B105-S1	EPA 8082 (PCBs only)	
	07/25/12	B105-S1	EPA 8260 Volatile Organics	
	07/25/12	B105-S1	MADEP EPH	
	07/25/12	B105-S1	Metals	
	07/25/12	B105-S1	Volatile Petroleum Hydrocarbons	
73421-4	07/25/12	B106-S6	EPA 8082 (PCBs only)	
	07/25/12	B106-S6	EPA 8260 Volatile Organics	
	07/25/12	B106-S6	MADEP EPH	
	07/25/12	B106-S6	Metals	
	07/25/12	B106-S6	Volatile Petroleum Hydrocarbons	
73421-5	07/25/12	B107-S1	EPA 8082 (PCBs only)	
	07/25/12	B107-S1	EPA 8260 Volatile Organics	
	07/25/12	B107-S1	MADEP EPH	
	07/25/12	B107-S1	Metals	
	07/25/12	B107-S1	Volatile Petroleum Hydrocarbons	
73421-6	07/25/12	B108-S1	EPA 8082 (PCBs only)	
	07/25/12	B108-S1	EPA 8260 Volatile Organics	
	07/25/12	B108-S1	MADEP EPH	
	07/25/12	B108-S1	Metals	
	07/25/12	B108-S1	Volatile Petroleum Hydrocarbons	
73421-7	07/25/12	B110-S1	MADEP EPH	
73421-8	07/25/12	BK1	MADEP EPH	
	07/25/12	BK1	Metals	
73421-9	07/25/12	BK2	Metals	
73421-10	07/25/12	BK3	Metals	
73421-11	07/25/12	MW101	EPA 8260 Volatile Organics	
	07/25/12	MW101	Metals	
	07/25/12	MW101	Volatile Petroleum Hydrocarbons	
73421-12	07/25/12	MW102	EPA 8260 Volatile Organics	
	07/25/12	MW102	Metals	
	07/25/12	MW102	Volatile Petroleum Hydrocarbons	
73421-13	07/25/12	MW103	EPA 8260 Volatile Organics	
	07/25/12	MW103	MADEP EPH	

CLIENT: Ransom Consulting, Inc.

REPORT NUMBER: 73421

REV: Rev. 0

PROJECT: 29 Belmont Ave., Belfast (Project No: 111.06134)

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
	07/25/12	MW103	Metals	
	07/25/12	MW103	Volatile Petroleum Hydrocarbons	
73421-14	07/25/12	MW104	MADEP EPH	
73421-15	07/25/12	MWX	EPA 8260 Volatile Organics	
	07/25/12	MWX	MADEP EPH	
	07/25/12	MWX	Metals	
	07/25/12	MWX	Volatile Petroleum Hydrocarbons	
73421-16	07/25/12	Septic Tank	EPA 8260 Volatile Organics	
	07/25/12	Septic Tank	Metals	
	07/25/12	Septic Tank	Volatile Petroleum Hydrocarbons	
73421-17	07/25/12	Trip Blank	EPA 8260 Volatile Organics	
73421-18	07/25/12	B10X-S1	Electronic Data Deliverable	
	07/25/12	B10X-S1	EPA 8082 (PCBs only)	
	07/25/12	B10X-S1	EPA 8260 Volatile Organics	
	07/25/12	B10X-S1	MADEP EPH	
	07/25/12	B10X-S1	Metals	
	07/25/12	B10X-S1	Volatile Petroleum Hydrocarbons	

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

Mr. Erik Phenix
 Ransom Consulting, Inc.
 400 Commercial Street Suite 404
 Portland, ME 04101

August 7, 2012
SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B105-S1

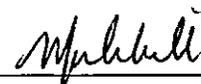
Lab Sample ID: 73421-3
Matrix: Solid
Percent Solid: 90
Dilution Factor: 104
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/06/12

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$	COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$
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	520	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	520	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	3120	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	81 %		d8-Toluene	74 %	
			Bromofluorobenzene	82 %	
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.

Authorized signature



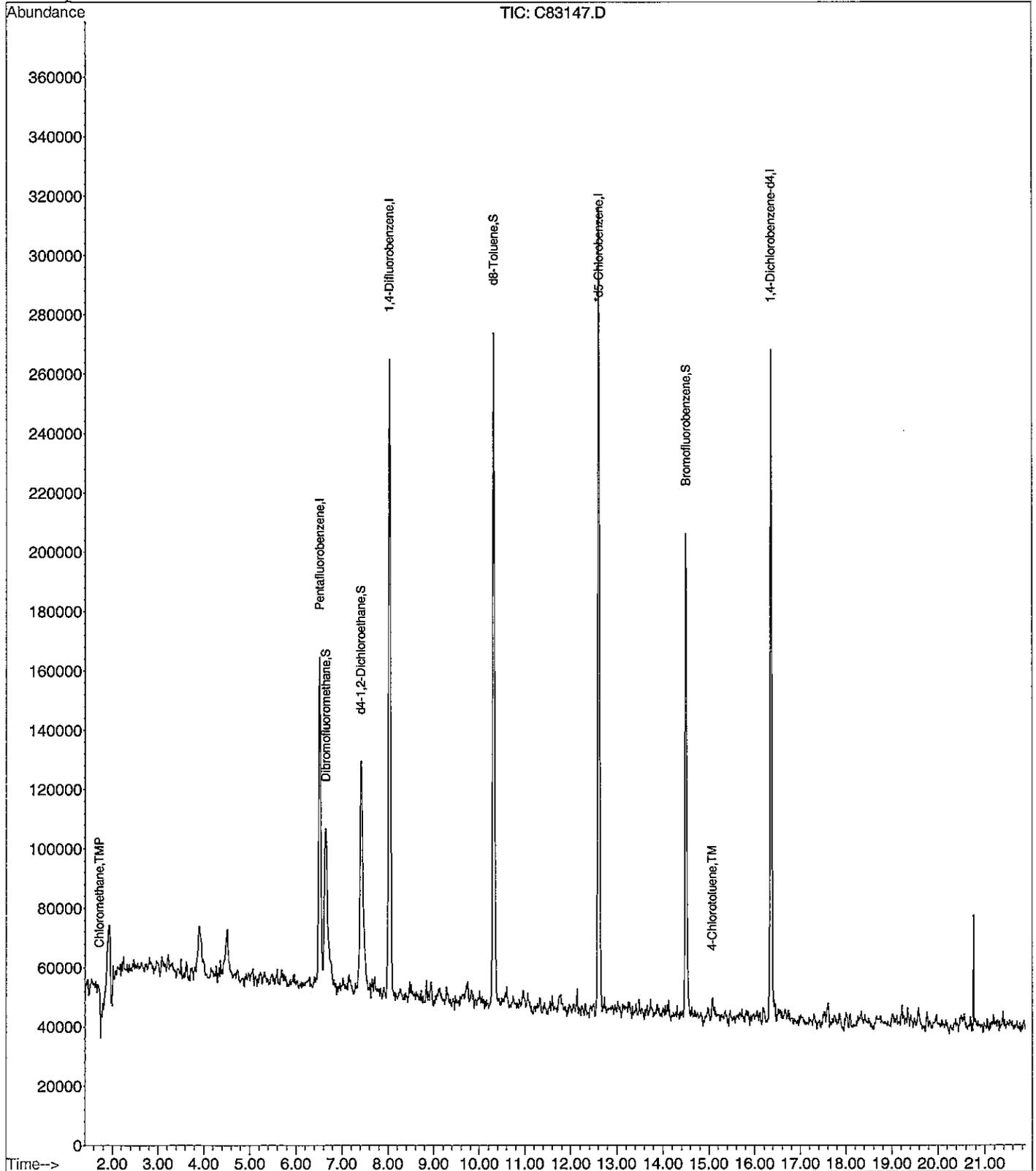
Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080612-C\C83147.D
Acq On : 6 Aug 2012 7:24 pm
Sample : 73421-3
Misc : 50,14.92,SOIL,,14ML F.V. MT
MS Integration Params: rteint.p
Quant Time: Aug 7 9:18 2012

Vial: 1
Operator: MT
Inst : Instr_C
Multiplr: 1.00

Quant Results File: V808062C.RES

Method : C:\HPCHEM\1\METHODS\METHODS\METHODS\V808062C.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Tue Aug 07 09:17:59 2012
Response via : Initial Calibration



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B106-S6

Lab Sample ID: 73421-4
Matrix: Solid
Percent Solid: 90
Dilution Factor: 109
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/06/12

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$	COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$
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	544	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	242 B	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	544	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	79 %		d8-Toluene	67 * %	
			Bromofluorobenzene	77 %	
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. Sample was reanalyzed to confirm results.

Authorized signature



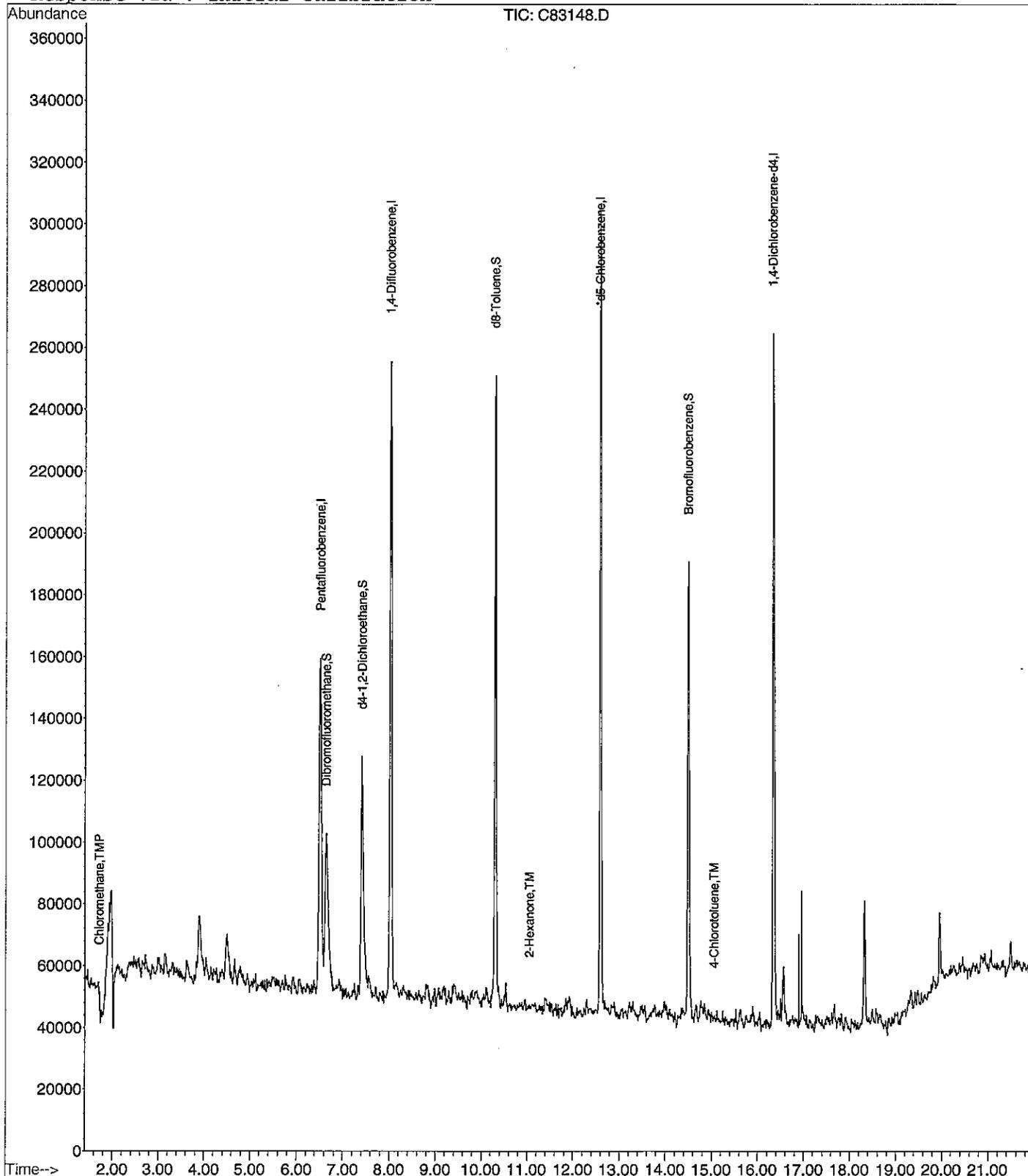
Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080612-C\C83148.D
Acq On : 6 Aug 2012 7:59 pm
Sample : 73421-4
Misc : 50,16.34,SOLL,,16ML F.V. MT
MS Integration Params: rteint.p
Quant Time: Aug 7 9:18 2012

Vial: 2
Operator: MT
Inst : Instr_C
Multiplr: 1.00

Quant Results File: V808062C.RES

Method : C:\HPCHEM\1\METHODS\METHODS\METHODS\V808062C.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Tue Aug 07 09:17:59 2012
Response via : Initial Calibration



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 7, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B107-S1

Lab Sample ID: 73421-5
Matrix: Solid
Percent Solid: 92
Dilution Factor: 106
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/06/12

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$	COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$
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	79	U	2,2-Dichloropropane	106	U
Bromoform	79	U	1,1-Dichloropropene	106	U
Bromomethane	106	U	Ethylbenzene	106	U
n-butylbenzene	106	U	Hexachlorobutadiene	106	U
sec-butylbenzene	106	109	Isopropylbenzene	106	U
tert-butylbenzene	106	U	p-isopropyltoluene	106	166
Carbon Tetrachloride	106	U	Methylene Chloride	529	U
Chlorobenzene	106	U	Methyl-tert-butyl ether (MTBE)	79	U
Chloroethane	106	U	Naphthalene	106	1340
Chloroform	79	U	n-Propylbenzene	106	184
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	79	U
Dibromochloromethane	79	U	Tetrachloroethene	106	U
1,2-Dibromo-3-chloropropane	106	U	Toluene	106	55 J
1,2-Dibromoethane	79	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	79	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	79	U	1,2,4-Trimethylbenzene	106	2540
1,1-Dichloroethene	79	U	1,3,5-Trimethylbenzene	106	1080
cis-1,2-Dichloroethene	106	U	Vinyl Chloride	106	U
trans-1,2-Dichloroethene	106	U	o-Xylene	106	324
1,2-Dichloropropane	79	U	m,p-Xylene	106	252
Acetone	1060	U	Diethyl ether	106	U
Carbon Disulfide	106	U	2-Hexanone	1060	U
Tetrahydrofuran	529	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	75 %		d8-Toluene	66 * %	
			Bromofluorobenzene	73 %	
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. Sample was reanalyzed to confirm results.

Authorized signature 

Mr. Erik Phenix
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 Portland, ME 04101

August 7, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B108-S1

Lab Sample ID: 73421-6
Matrix: Solid
Percent Solid: 96
Dilution Factor: 101
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/03/12

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$	COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$
Benzene	101	U	1,3-Dichloropropane	101	U
Bromobenzene	101	U	cis-1,3-Dichloropropene	101	U
Bromochloromethane	101	U	trans-1,3-Dichloropropene	101	U
Bromodichloromethane	76	U	2,2-Dichloropropane	101	U
Bromoform	76	U	1,1-Dichloropropene	101	U
Bromomethane	101	U	Ethylbenzene	101	U
n-butylbenzene	101	U	Hexachlorobutadiene	101	U
sec-butylbenzene	101	U	Isopropylbenzene	101	U
tert-butylbenzene	101	U	p-isopropyltoluene	101	U
Carbon Tetrachloride	101	U	Methylene Chloride	504	U
Chlorobenzene	101	U	Methyl-tert-butyl ether (MTBE)	76	U
Chloroethane	101	U	Naphthalene	101	U
Chloroform	76	U	n-Propylbenzene	101	U
Chloromethane	101	U	Styrene	101	U
2-Chlorotoluene	101	U	1,1,1,2-Tetrachloroethane	101	U
4-Chlorotoluene	101	U	1,1,2,2-Tetrachloroethane	76	U
Dibromochloromethane	76	U	Tetrachloroethene	101	U
1,2-Dibromo-3-chloropropane	101	U	Toluene	101	U
1,2-Dibromoethane	76	U	1,2,3-Trichlorobenzene	101	U
Dibromomethane	101	U	1,2,4-Trichlorobenzene	101	U
1,2-Dichlorobenzene	101	U	1,1,1-Trichloroethane	101	U
1,3-Dichlorobenzene	101	U	1,1,2-Trichloroethane	76	U
1,4-Dichlorobenzene	101	U	Trichloroethene	101	U
Dichlorodifluoromethane	101	U	Trichlorofluoromethane	101	U
1,1-Dichloroethane	101	U	1,2,3-Trichloropropane	101	U
1,2-Dichloroethane	76	U	1,2,4-Trimethylbenzene	101	U
1,1-Dichloroethene	76	U	1,3,5-Trimethylbenzene	101	U
cis-1,2-Dichloroethene	101	U	Vinyl Chloride	101	U
trans-1,2-Dichloroethene	101	U	o-Xylene	101	U
1,2-Dichloropropane	76	U	m,p-Xylene	101	U
Acetone	1010	U	Diethyl ether	101	U
Carbon Disulfide	101	U	2-Hexanone	1010	U
Tetrahydrofuran	504	U	Methyl isobutyl ketone	1010	U
Methyl ethyl ketone	1010	U	Di-isopropyl ether (DIPE)	101	U
t-Butyl alcohol (TBA)	2020	U	Ethyl t-butyl ether (ETBE)	101	U
t-Amyl methyl ether (TAME)	101	U	1,3,5-Trichlorobenzene	101	U
			1,4-Dioxane	3020	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	92 %		d8-Toluene	75 %	
			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.

Authorized signature 

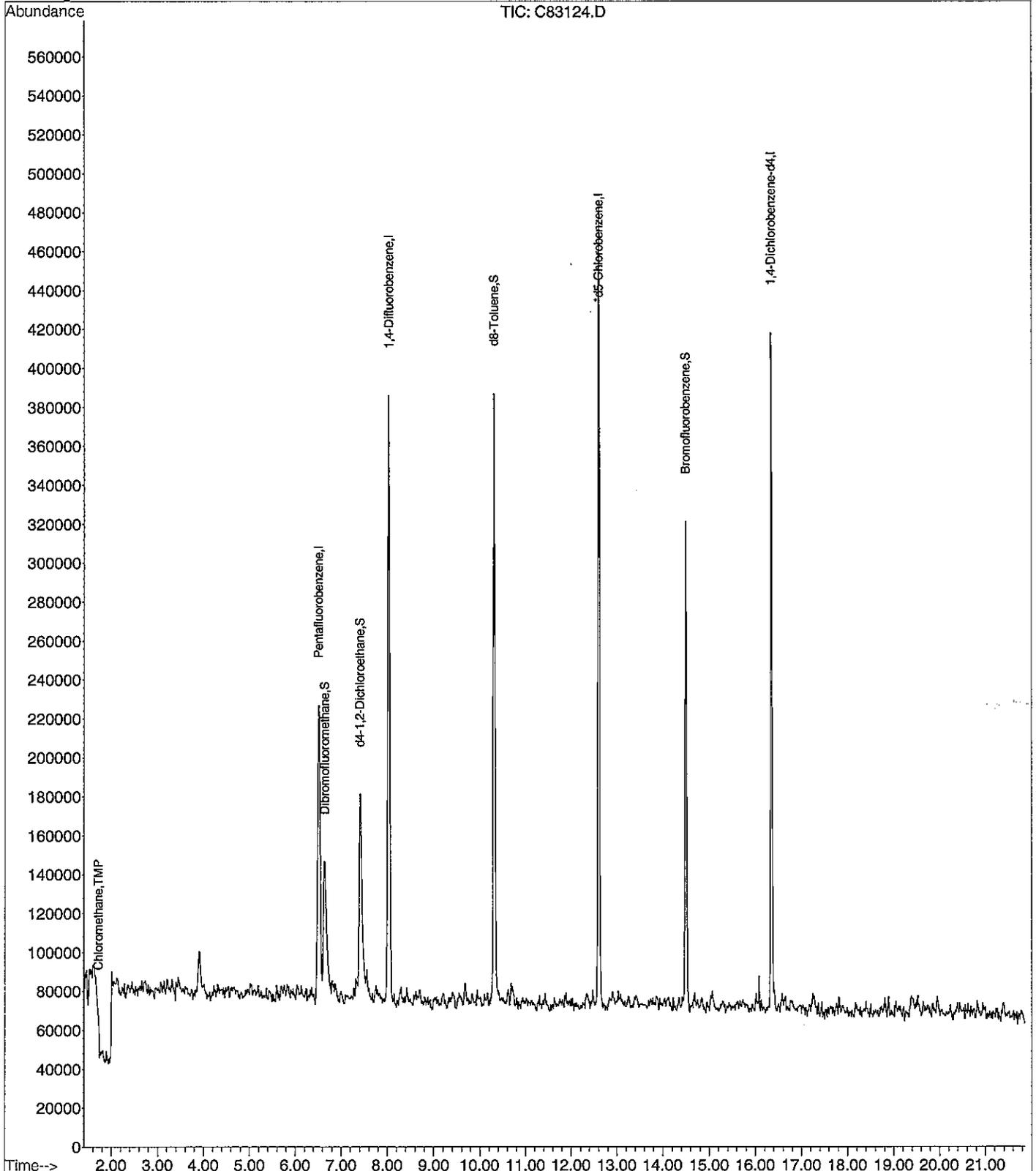
Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080312-C\C83124.D
Acq On : 3 Aug 2012 3:05 pm
Sample : 73421-6
Misc : 50,14.51,SOIL,,14ML F.V. MT
MS Integration Params: rteint.p
Quant Time: Aug 6 15:17 2012

Vial: 16
Operator: MT
Inst : Instr_C
Multiplr: 1.00

Quant Results File: V808022C.RES

Method : C:\HPCHEM\1\METHODS\METHODS\METHODS\V808022C.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Fri Aug 03 09:06:21 2012
Response via : Initial Calibration



Mr. Erik Phenix
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 400 Commercial Street Suite 404
 Portland, ME 04101

August 2, 2012
SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: MW101

Lab Sample ID: 73421-11
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 07/30/12

ANALYTICAL RESULTS VOLATILE ORGANICS			
COMPOUND		Quantitation Limit µg/L	Result µg/L
Chlorobenzene		1	U
1,3-Dichlorobenzene		1	U
1,4-Dichlorobenzene		1	U
1,2-Dichlorobenzene		1	U
1,2-Dibromoethane		1	U
1,2-Dichloroethane		1	U
Surrogate Standard Recovery			
d4-1,2-Dichloroethane	94 %	d8-Toluene	100 %
		Bromofluorobenzen	99 %
U=Undetected		J=Estimated	
E=Exceeds Calibration Range		B=Detected in	

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

COMMENTS:

Authorized signature *M. J. Sullivan*

8260 Pb Scav (3):

Mr. Erik Phenix
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August 2, 2012
SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: MW102

Lab Sample ID: 73421-12
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 07/30/12

ANALYTICAL RESULTS VOLATILE ORGANICS			
COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$	
Chlorobenzene	1	U	
1,3-Dichlorobenzene	1	U	
1,4-Dichlorobenzene	1	U	
1,2-Dichlorobenzene	1	U	
1,2-Dibromoethane	1	U	
1,2-Dichloroethane	1	U	
Surrogate Standard Recovery			
d4-1,2-Dichloroethane	96 %	d8-Toluene	97 %
		Bromofluorobenzen	96 %
U=Undetected	J=Estimated	E=Exceeds Calibration Range	B=Detected in

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

COMMENTS:

Authorized signature 

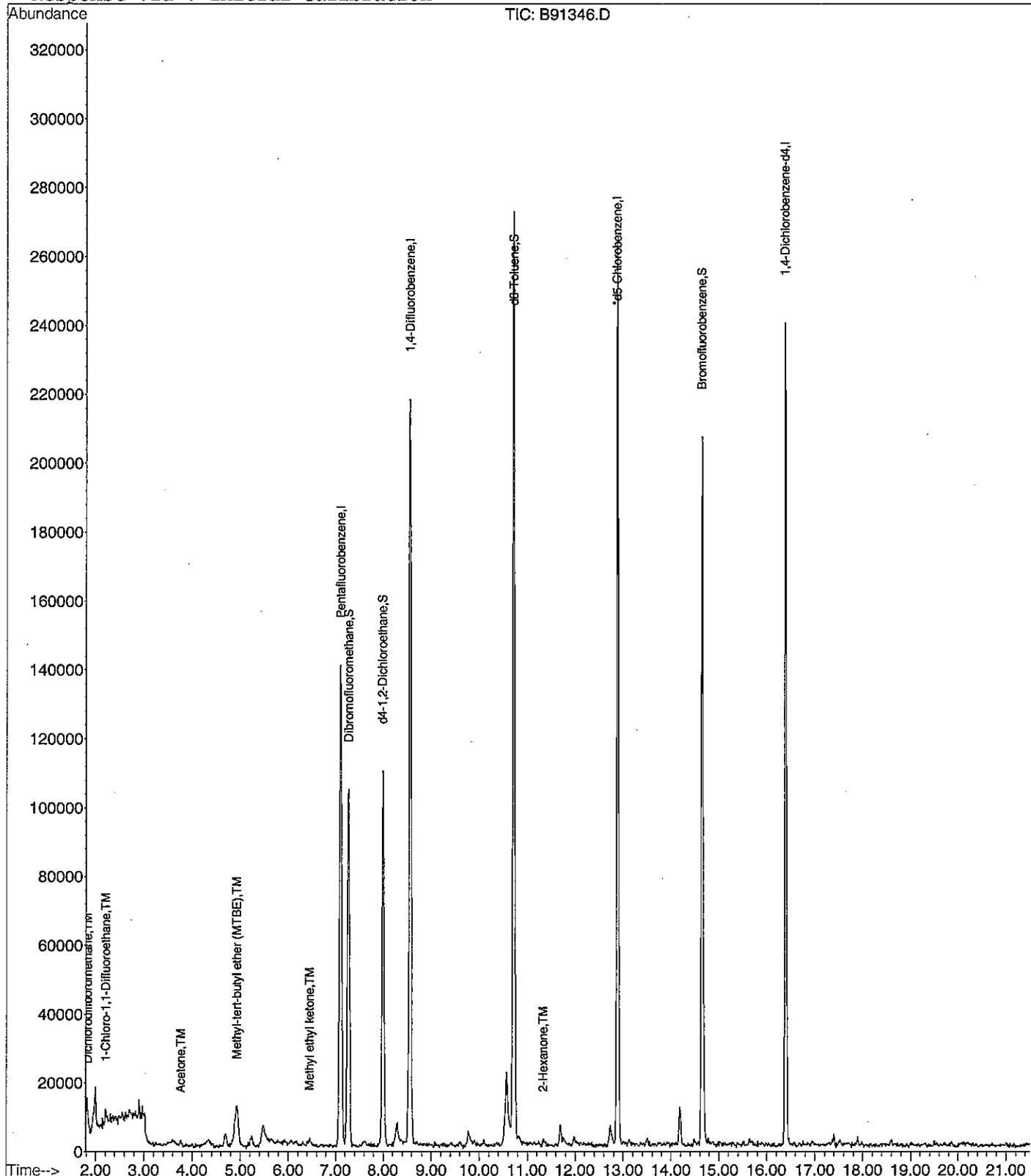
Quantitation Report

Data File : C:\HPCHEM\1\DATA\073012-B\B91346.D
Acq On : 30 Jul 2012 5:12 pm
Sample : 73421-12
Misc : 5000
MS Integration Params: rteint.p
Quant Time: Jul 31 15:35 2012

Vial: 12
Operator: MT
Inst : Instrumen
Multiplr: 1.00

Quant Results File: V807252B.RES

Method : C:\HPCHEM\1\METHODS\V807252B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Fri Jul 27 10:53:25 2012
Response via : Initial Calibration



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 Portland, ME 04101

August 2, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: MW103

Lab Sample ID: 73421-13
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 07/30/12

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	99 %		d8-Toluene	99 %	
			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:

Authorized signature 

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 2, 2012

SAMPLE DATA

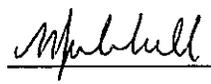
CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: MWX

Lab Sample ID: 73421-15
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 07/30/12

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	96 %		d8-Toluene	98 %	
			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:

Authorized signature 

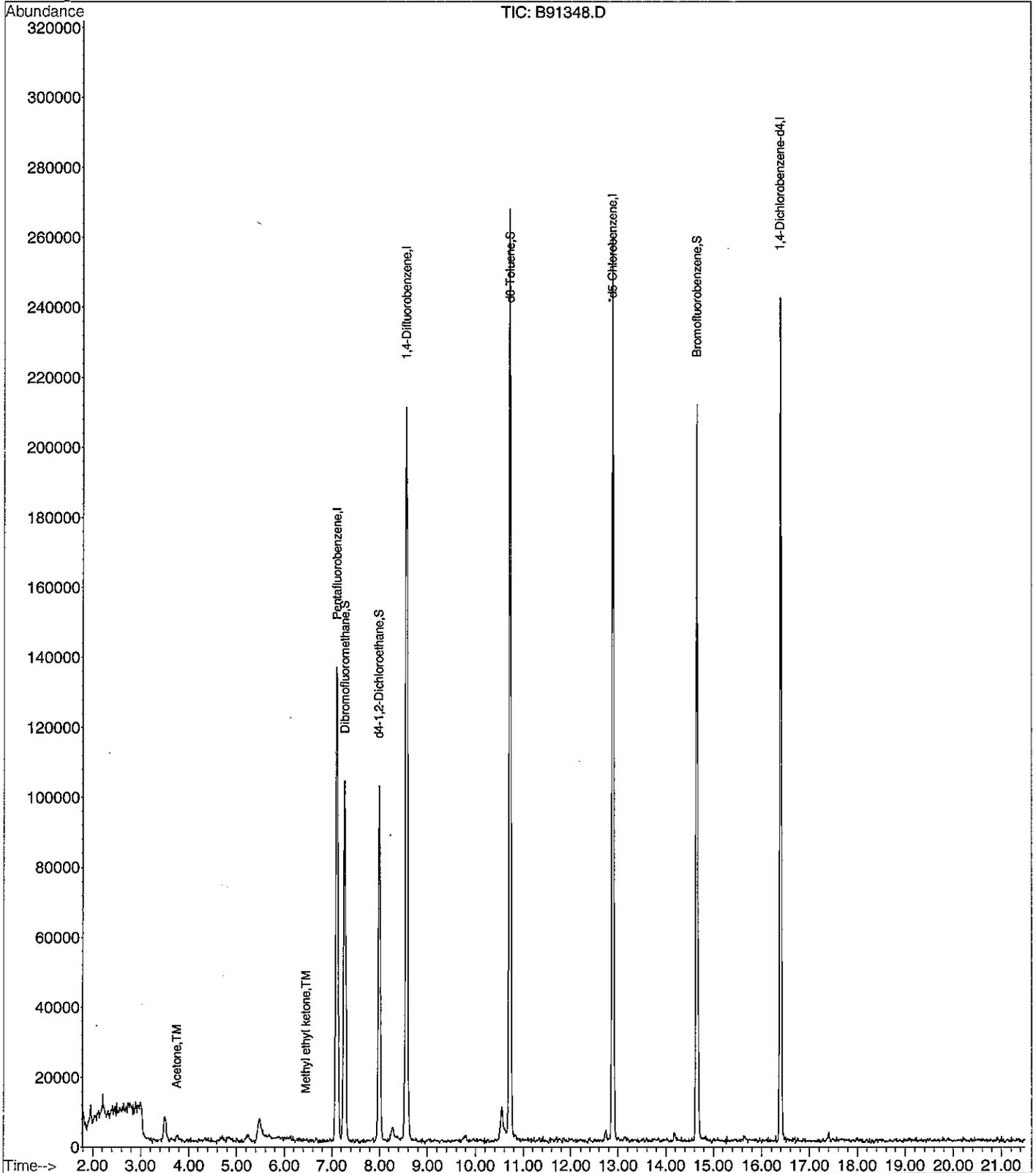
Quantitation Report

Data File : C:\HPCHEM\1\DATA\073012-B\B91348.D
Acq On : 30 Jul 2012 6:10 pm
Sample : 73421-15
Misc : 5000
MS Integration Params: rteint.p
Quant Time: Jul 31 15:35 2012

Vial: 14
Operator: MT
Inst : Instrumen
Multiplr: 1.00

Quant Results File: V807252B.RES

Method : C:\HPCHEM\1\METHODS\V807252B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Fri Jul 27 10:53:25 2012
Response via : Initial Calibration



Mr. Erik Phenix
 Ransom Consulting, Inc.
 400 Commercial Street Suite 404
 Portland, ME 04101

August 2, 2012
SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: Septic Tank

Lab Sample ID: 73421-16
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 07/30/12

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	99 %		d8-Toluene	95 %	
			Bromofluorobenzene	96 %	
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:

Authorized signature 

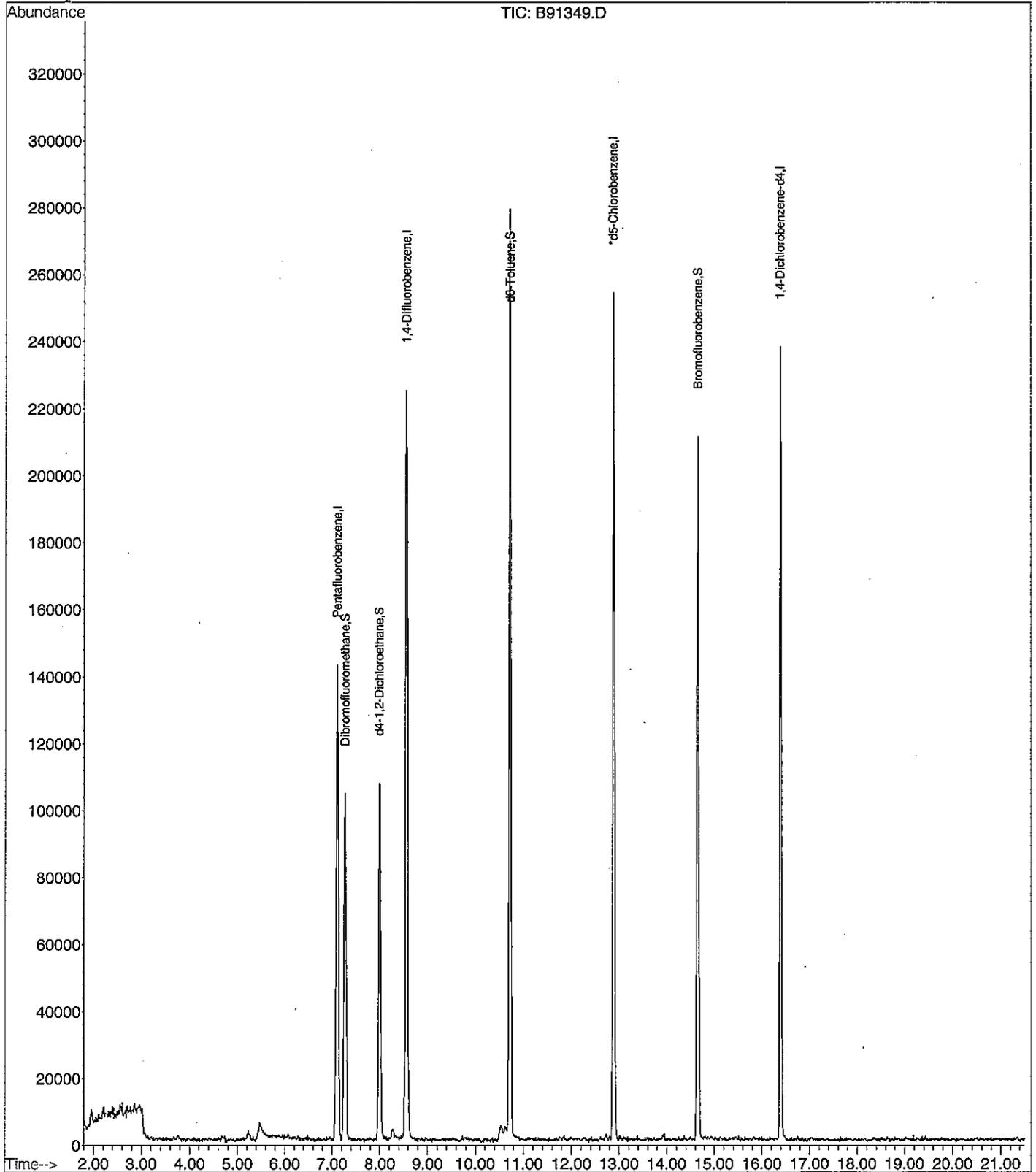
Quantitation Report

Data File : C:\HPCHEM\1\DATA\073012-B\B91349.D
Acq On : 30 Jul 2012 6:40 pm
Sample : 73421-16
Misc : 5000
MS Integration Params: rteint.p
Quant Time: Jul 31 15:35 2012

Vial: 15
Operator: MT
Inst : Instrumen
Multiplr: 1.00

Quant Results File: V807252B.RES

Method : C:\HPCHEM\1\METHODS\V807252B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Fri Jul 27 10:53:25 2012
Response via : Initial Calibration



Mr. Erik Phenix
 Ransom Consulting, Inc.
 400 Commercial Street Suite 404
 Portland, ME 04101

July 31, 2012

SAMPLE DATA

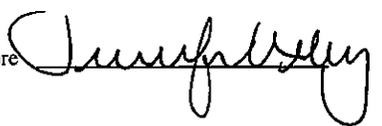
CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: Trip Blank

Lab Sample ID: 73421-17
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 07/27/12

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	95 %		d8-Toluene	97 %	
			Bromofluorobenzene	96 %	
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:

Authorized signature 

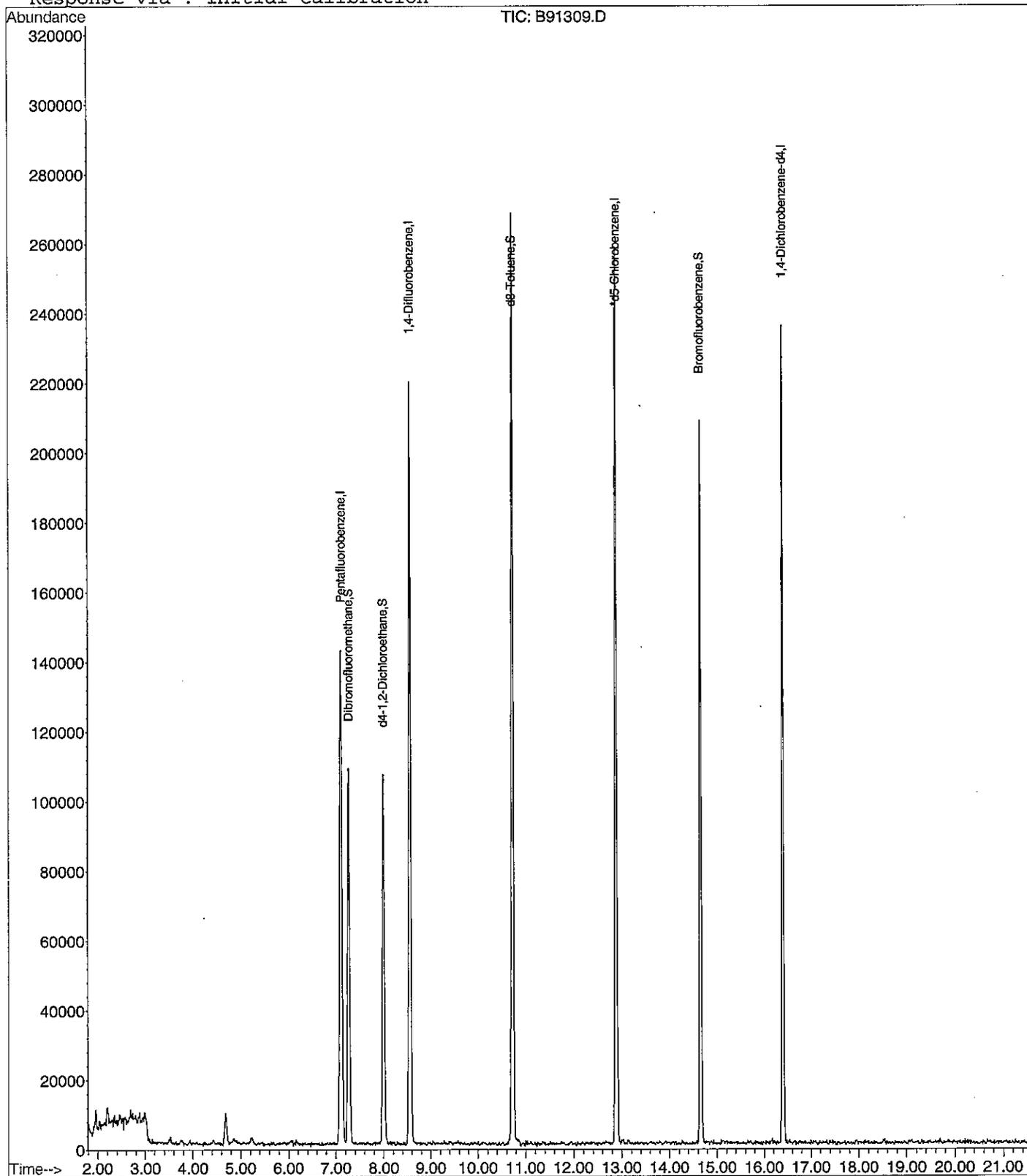
Quantitation Report

Data File : C:\HPCHEM\1\DATA\072712-B\B91309.D
Acq On : 27 Jul 2012 1:14 pm
Sample : 73421-17
Misc : 5000
MS Integration Params: rteint.p
Quant Time: Jul 30 12:29 2012

Vial: 8
Operator: MT
Inst : Instrumen
Multiplr: 1.00

Quant Results File: V807252B.RES

Method : C:\HPCHEM\1\METHODS\V807252B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Mon Jul 30 11:37:33 2012
Response via : Initial Calibration



Mr. Erik Phenix
 Ransom Consulting, Inc.
 400 Commercial Street Suite 404
 Portland, ME 04101

August 7, 2012
SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B10X-S1

Lab Sample ID: 73421-18
Matrix: Solid
Percent Solid: 86
Dilution Factor: 124
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/03/12

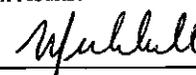
ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$	COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Result $\mu\text{g}/\text{kg}$
Benzene	124	U	1,3-Dichloropropane	124	U
Bromobenzene	124	U	cis-1,3-Dichloropropene	124	U
Bromochloromethane	124	U	trans-1,3-Dichloropropene	124	U
Bromodichloromethane	93	U	2,2-Dichloropropane	124	U
Bromoform	93	U	1,1-Dichloropropene	124	U
Bromomethane	124	U	Ethylbenzene	124	U
n-butylbenzene	124	U	Hexachlorobutadiene	124	U
sec-butylbenzene	124	U	Isopropylbenzene	124	U
tert-butylbenzene	124	U	p-isopropyltoluene	124	U
Carbon Tetrachloride	124	U	Methylene Chloride	618	U
Chlorobenzene	124	U	Methyl-tert-butyl ether (MTBE)	93	U
Chloroethane	124	U	Naphthalene	124	U
Chloroform	93	U	n-Propylbenzene	124	U
Chloromethane	124	U	Styrene	124	U
2-Chlorotoluene	124	U	1,1,1,2-Tetrachloroethane	124	U
4-Chlorotoluene	124	U	1,1,2,2-Tetrachloroethane	93	U
Dibromochloromethane	93	U	Tetrachloroethene	124	U
1,2-Dibromo-3-chloropropane	124	U	Toluene	124	U
1,2-Dibromoethane	93	U	1,2,3-Trichlorobenzene	124	U
Dibromomethane	124	U	1,2,4-Trichlorobenzene	124	U
1,2-Dichlorobenzene	124	U	1,1,1-Trichloroethane	124	U
1,3-Dichlorobenzene	124	U	1,1,2-Trichloroethane	93	U
1,4-Dichlorobenzene	124	U	Trichloroethene	124	U
Dichlorodifluoromethane	124	U	Trichlorofluoromethane	124	U
1,1-Dichloroethane	124	U	1,2,3-Trichloropropane	124	U
1,2-Dichloroethane	93	U	1,2,4-Trimethylbenzene	124	U
1,1-Dichloroethene	93	U	1,3,5-Trimethylbenzene	124	U
cis-1,2-Dichloroethene	124	U	Vinyl Chloride	124	U
trans-1,2-Dichloroethene	124	U	o-Xylene	124	U
1,2-Dichloropropane	93	U	m,p-Xylene	124	U
Acetone	1240	U	Diethyl ether	124	U
Carbon Disulfide	124	U	2-Hexanone	1240	U
Tetrahydrofuran	618	U	Methyl isobutyl ketone	1240	U
Methyl ethyl ketone	1240	U	Di-isopropyl ether (DIPE)	124	U
t-Butyl alcohol (TBA)	2470	U	Ethyl t-butyl ether (ETBE)	124	U
t-Amyl methyl ether (TAME)	124	U	1,3,5-Trichlorobenzene	124	U
			1,4-Dioxane	3710	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	82 %		d8-Toluene	68 * %	
			Bromofluorobenzene	71 %	
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. Sample was reanalyzed to confirm results.

Authorized signature

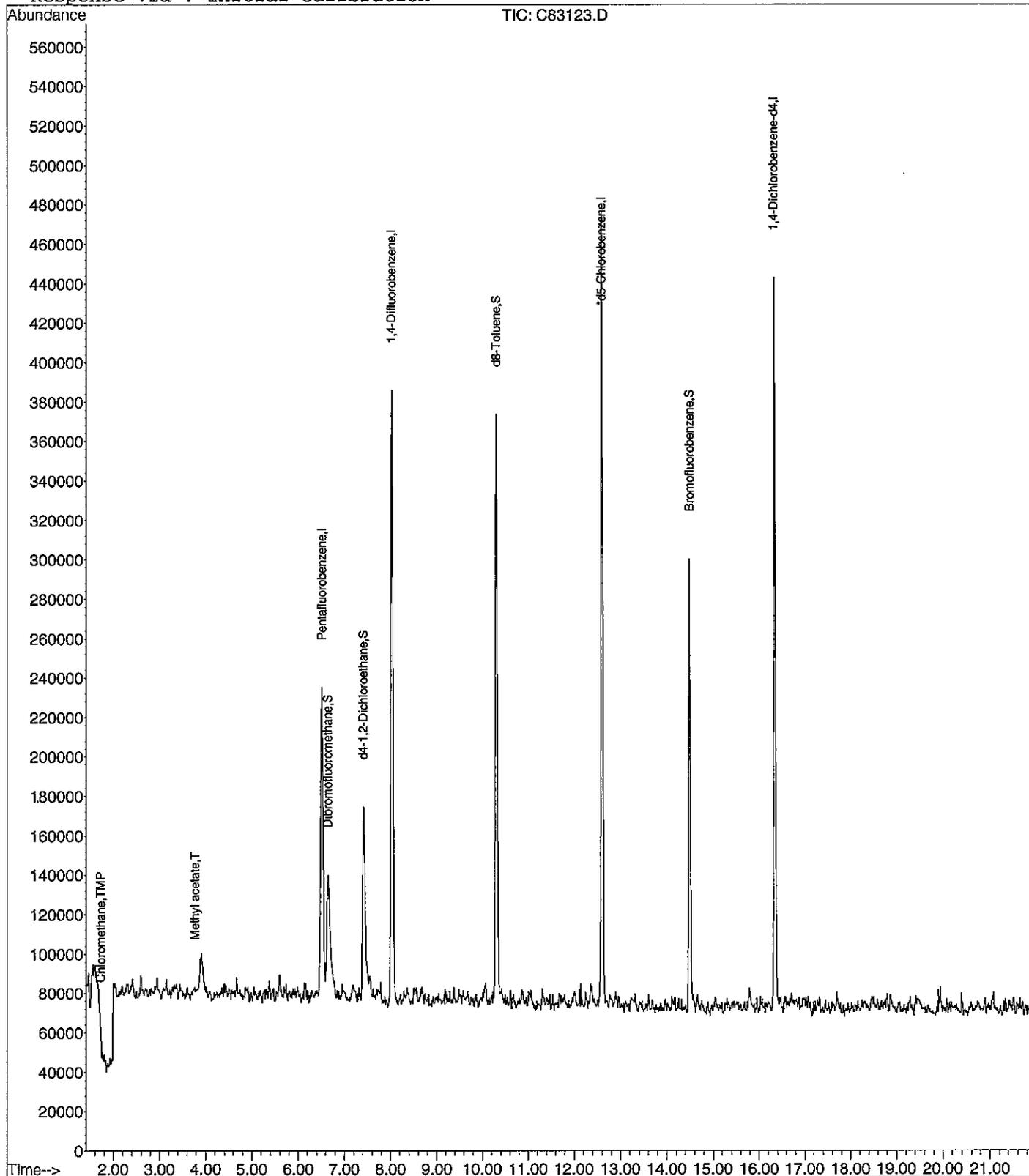


Data File : C:\HPCHEM\1\DATA\DATA\080312-C\C83123.D
Acq On : 3 Aug 2012 2:31 pm
Sample : 73421-18
Misc : 50,9.44,SOIL
MS Integration Params: rteint.p
Quant Time: Aug 7 12:38 2012

Vial: 15
Operator: MT
Inst : Instr_C
Multiplr: 1.00

Quant Results File: V808022C.RES

Method : C:\HPCHEM\1\METHODS\METHODS\METHODS\V808022C.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Fri Aug 03 09:06:21 2012
Response via : Initial Calibration



VOLATILE
QC FORMS

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

July 31, 2012

SAMPLE DATA

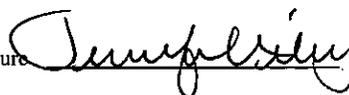
CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: LAB QC

Lab Sample ID: B807272B
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 07/27/12

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	98 %	d8-Toluene	97 %	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:

Authorized signature 

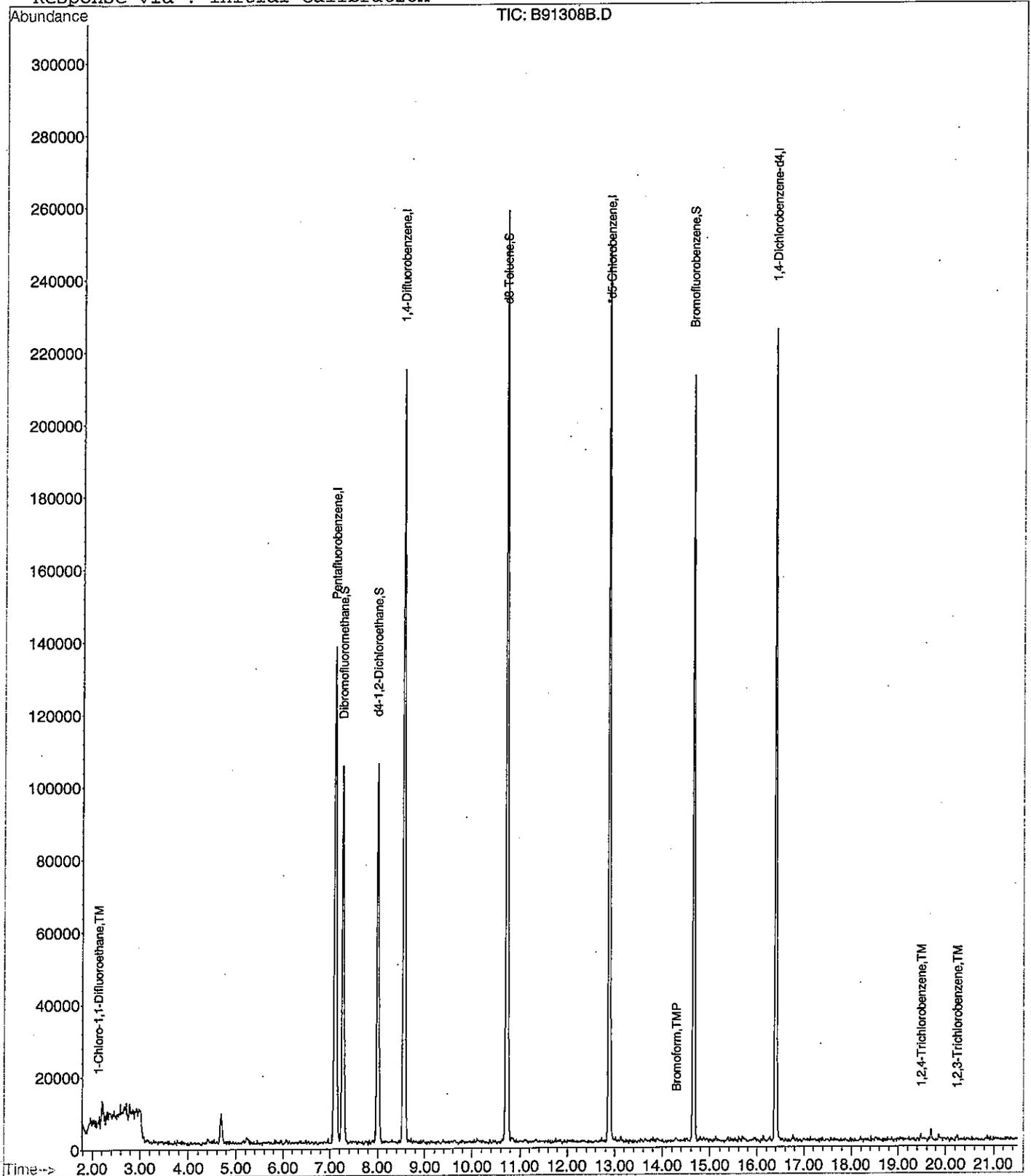
quantitation report

Data File : C:\HPCHEM\1\DATA\072712-B\B91308B.D
Acq On : 27 Jul 2012 12:40 pm
Sample : B807272B
Misc : 5000
MS Integration Params: rteint.p
Quant Time: Jul 30 12:29 2012

Vial: 7
Operator: MT
Inst : Instrumen
Multiplr: 1.00

Quant Results File: V807252B.RES

Method : C:\HPCHEM\1\METHODS\V807252B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Mon Jul 30 11:37:33 2012
Response via : Initial Calibration



Mr. Erik Phenix
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 400 Commercial Street Suite 404
 Portland, ME 04101

August 2, 2012
SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: LAB QC

Lab Sample ID: B807302B
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 07/30/12

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	99 %		d8-Toluene	102 %	
			Bromofluorobenzene	102 %	
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank					

METHODOLOGY:

COMMENTS:

Authorized signature 

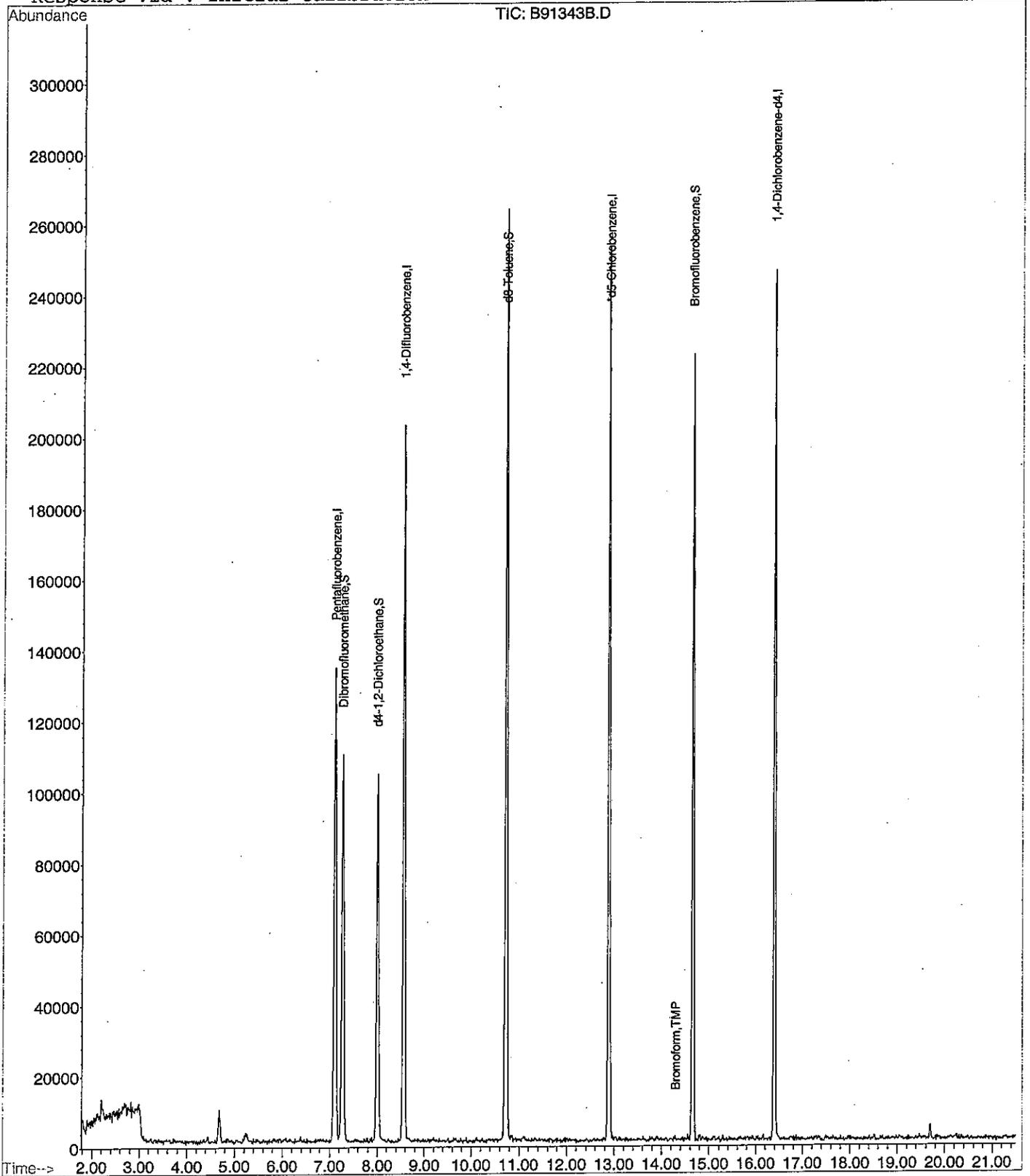
quantitation Report

Data File : C:\HPCHEM\1\DATA\073012-B\B91343B.D
Acq On : 30 Jul 2012 1:53 pm
Sample : B807302B
Misc : 5000
MS Integration Params: rteint.p
Quant Time: Jul 31 15:35 2012

Vial: 9
Operator: MT
Inst : Instrumen
Multiplr: 1.00

Quant Results File: V807252B.RES

Method : C:\HPCHEM\1\METHODS\V807252B.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Fri Jul 27 10:53:25 2012
Response via : Initial Calibration



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 7, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: LAB QC

Lab Sample ID: MB08032C
Matrix: Solid
Percent Solid: 100
Dilution Factor: 100
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 08/03/12

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	103 %		d8-Toluene	85 %	
			Bromofluorobenzene	91 %	
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.

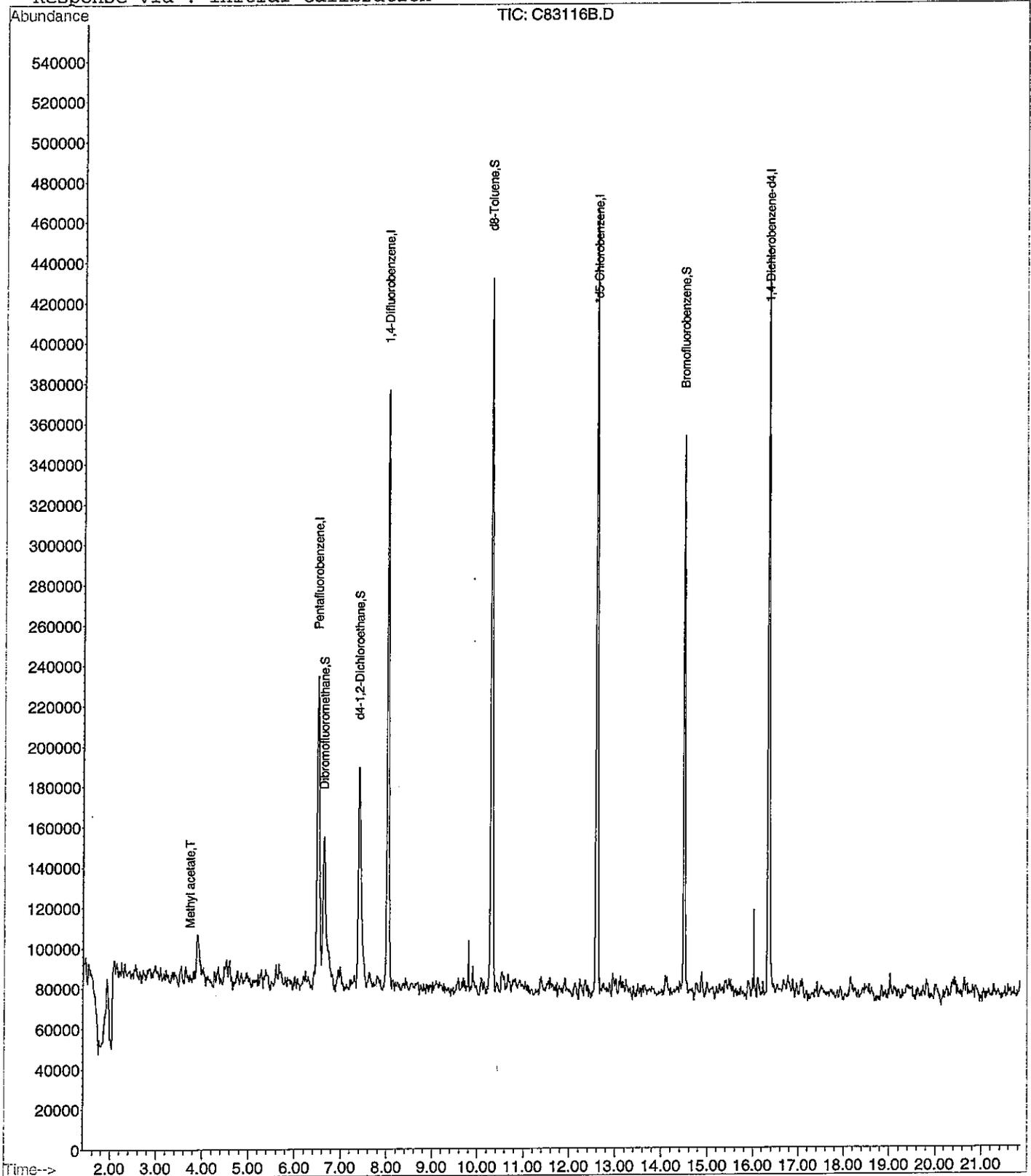
Authorized signature



Quantitation report

Data File : C:\HPCHEM\1\DATA\DATA\080312-C\C83116B.D Vial: 7
Acq On : 3 Aug 2012 10:35 am Operator: MF
Sample : MB08032C Inst : Instr_C
Misc : 50,10.00,SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 3 10:52 2012 Quant Results File: V808022C.RES

Method : C:\HPCHEM\1\METHODS\METHODS\METHODS\V808022C.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Fri Aug 03 09:06:21 2012
Response via : Initial Calibration



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: LAB QC

Lab Sample ID: MB08062C
Matrix: Solid
Percent Solid: 100
Dilution Factor: 100
Collection Date: N/A
Lab Receipt Date: N/A
Analysis Date: 08/06/12

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	91 J	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	99 %	d8-Toluene	96 %	Bromofluorobenzene	97 %
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.



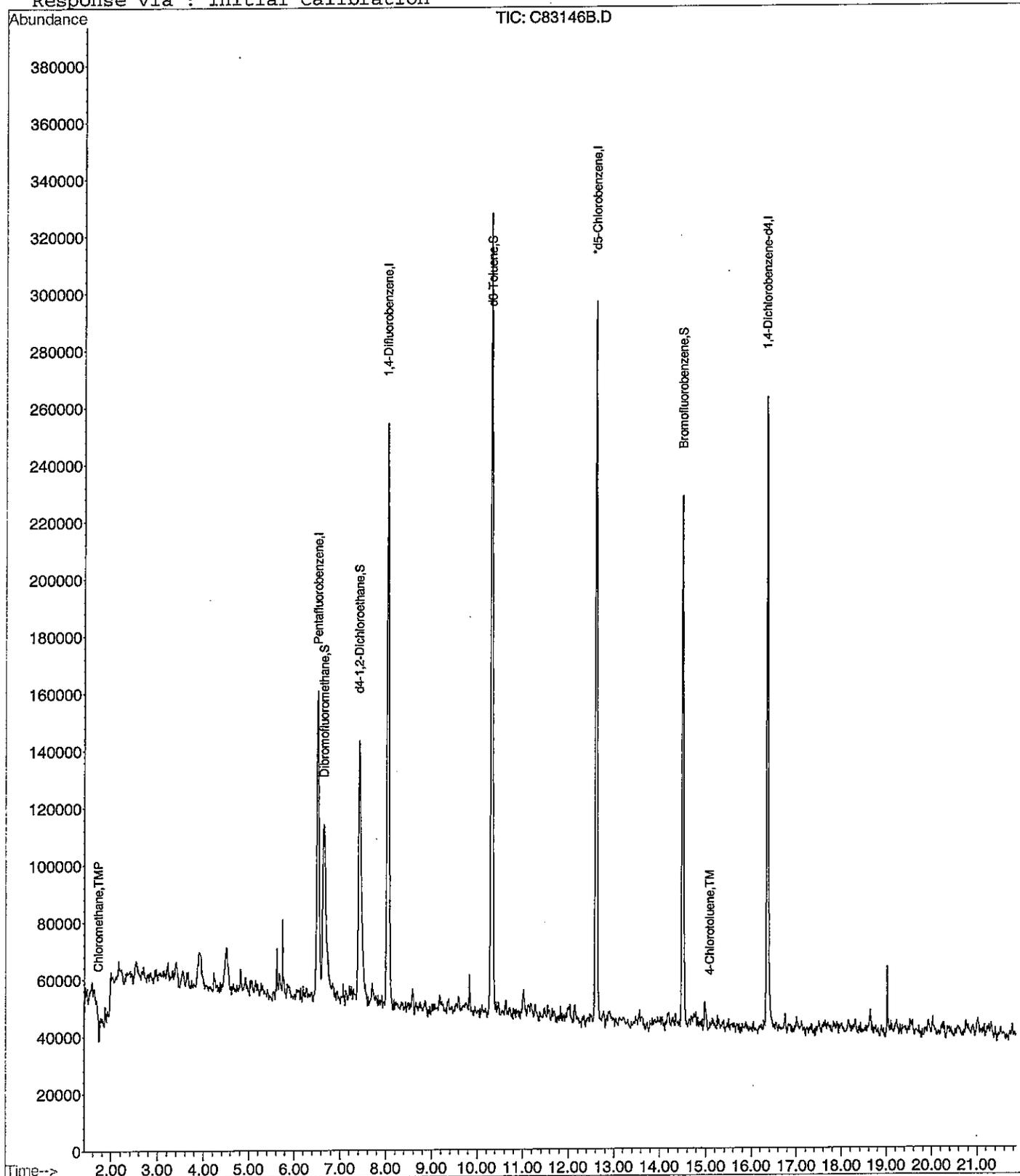
Quantitation Report

Data File : C:\HPCHEM\1\DATA\DATA\080612-C\C83146B.D
Acq On : 6 Aug 2012 6:44 pm
Sample : MB08062C
Misc : 50,10.00,SOIL
MS Integration Params: rteint.p
Quant Time: Aug 7 9:18 2012

Vial: 16
Operator: MT
Inst : Instr_C
Multiplr: 1.00

Quant Results File: V808062C.RES

Method : C:\HPCHEM\1\METHODS\METHODS\METHODS\V808062C.M (RTE Integrator)
Title : 8260 Purgable Organics
Last Update : Tue Aug 07 09:17:59 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: 73421
Non-spiked sample: B807272B
Spike: L807272B
Spike duplicate: L807272B2

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	19	96		18	88		9	
Chloromethane	20	40	125	15	0.0	16	82		15	74		10	
Vinyl Chloride	20	70	130	15	0.0	18	89		16	81		9	
Bromomethane	20	40	145	15	0.0	20	101		20	100		1	
Chloroethane	20	70	130	15	0.0	18	88		17	85		2	
t-Butyl alcohol (TBA)	100	70	130	15	0.0	91	91		83	83		10	
Trichlorofluoromethane	20	70	130	15	0.0	18	92		17	87		5	
Diethyl ether	20	70	130	15	0.0	19	97		19	93		4	
1,1,2-Trichlorotrifluoroethane	20	70	130	15	0.0	18	89		17	87		2	
Acetone	100	40	140	15	0.0	89	89		89	89		0	
1,1-Dichloroethene	20	75	125	15	0.0	18	92		18	91		1	
Methyl iodide	20	70	130	15	0.0	19	97		20	98		1	
Di-isopropyl ether (DIPE)	20	70	130	15	0.0	18	91		18	90		1	
Methylene Chloride	20	70	130	15	0.0	19	93		19	93		0	
Carbon Disulfide	20	70	130	15	0.0	18	89		17	85		4	
Acrylonitrile	20	70	130	15	0.0	19	94		19	97		4	
Methyl-tert-butyl ether (MTBE)	40	70	130	15	0.0	37	92		36	91		1	
trans-1,2-Dichloroethene	20	75	125	15	0.0	20	102		19	96		6	
1,1-Dichloroethane	20	70	130	15	0.0	18	91		18	90		1	
Vinyl acetate	20	70	130	15	0.0	22	111		21	107		3	
Methyl ethyl ketone	100	40	150	15	0.0	88	88		83	83		6	
Ethyl t-butyl ether (ETBE)	20	70	130	15	0.0	19	95		19	95		1	
2,2-Dichloropropane	20	70	130	15	0.0	18	89		16	81		10	
cis-1,2-Dichloroethene	20	75	125	15	0.0	20	100		19	94		6	
t-Amyl methyl ether (TAME)	20	70	130	15	0.0	18	89		17	87		3	
Chloroform	20	70	130	15	0.0	20	98		19	93		5	
Bromochloromethane	20	70	130	15	0.0	21	104		21	104		0	
Tetrahydrofuran	20	70	130	15	0.0	19	95		17	85		11	
1,1,1-Trichloroethane	20	75	125	15	0.0	19	94		18	90		5	
1,1-Dichloropropene	20	75	130	15	0.0	19	96		18	92		4	
Carbon Tetrachloride	20	75	125	15	0.0	19	95		19	93		2	
1,2-Dichloroethane	20	70	130	15	0.0	18	92		18	92		0	
Benzene	20	80	120	15	0.0	18	90		18	90		0	
Trichloroethene	20	75	125	15	0.0	20	98		19	95		3	
1,2-Dichloropropane	20	75	125	15	0.0	19	95		18	90		5	
Methylmethacrylate	20	70	130	15	0.0	18	92		17	86		7	
Bromodichloromethane	20	75	120	15	0.0	20	101		19	96		6	
Dibromomethane	20	75	125	15	0.0	19	94		18	90		4	
1,4-Dioxane	500	40	160	15	0.0	456	91		436	87		5	
2-Hexanone	100	55	130	15	0.0	92	92		89	89		4	
Methyl isobutyl ketone	100	60	135	15	0.0	91	91		85	85		7	
cis-1,3-Dichloropropene	20	70	130	15	0.0	20	100		19	94		6	
Toluene	20	75	120	15	0.0	20	101		19	96		5	
trans-1,3-Dichloropropene	20	70	130	15	0.0	20	99		19	97		2	
1,1,2-Trichloroethane	20	75	125	15	0.0	19	97		19	95		3	
1,3-Dichloropropane	20	75	125	15	0.0	20	102		20	100		2	
Tetrachloroethene	20	75	125	15	0.0	22	112		21	106		6	
Dibromochloromethane	20	70	130	15	0.0	22	110		21	104		6	
1,2-Dibromoethane	20	80	120	15	0.0	21	104		21	104		0	
Chlorobenzene	20	80	120	15	0.0	20	101		20	101		0	
1,1,1,2-Tetrachloroethane	20	80	130	15	0.0	20	100		20	99		1	

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: 73421
Non-spiked sample: B807272B
Spike: L807272B
Spike duplicate: L807272B2

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	19	96		19	95		1	
m,p-Xylene	40	75	125	15	0.0	40	101		40	99		2	
o-Xylene	20	80	120	15	0.0	20	100		20	99		1	
Styrene	20	70	130	15	0.0	20	98		19	96		2	
Bromoform	20	70	130	15	0.0	20	101		20	101		0	
Isopropylbenzene	20	75	125	15	0.0	21	103		20	102		1	
1,1,2,2-Tetrachloroethane	20	70	130	15	0.0	19	94		18	92		2	
1,2,3-Trichloropropane	20	75	125	15	0.0	18	90		18	91		2	
n-Propylbenzene	20	70	130	15	0.0	20	100		19	97		3	
Bromobenzene	20	75	125	15	0.0	19	97		19	96		0	
1,3,5-Trimethylbenzene	20	75	130	15	0.0	20	99		19	95		3	
2-Chlorotoluene	20	75	125	15	0.0	20	98		19	95		3	
4-Chlorotoluene	20	75	130	15	0.0	19	94		19	94		1	
tert-butylbenzene	20	70	130	15	0.0	20	99		20	100		1	
1,2,4-Trimethylbenzene	20	75	130	15	0.0	19	96		19	93		3	
sec-butylbenzene	20	70	125	15	0.0	19	97		20	98		1	
p-isopropyltoluene	20	75	130	15	0.0	20	100		20	98		2	
1,3-Dichlorobenzene	20	75	125	15	0.0	20	102		20	101		2	
1,4-Dichlorobenzene	20	75	125	15	0.0	20	101		20	99		2	
n-butylbenzene	20	70	130	15	0.0	20	98		19	95		3	
1,2-Dichlorobenzene	20	70	120	15	0.0	20	98		19	94		4	
1,2-Dibromo-3-chloropropane	20	70	130	15	0.0	18	90		17	86		5	
1,2,4-Trichlorobenzene	20	70	130	15	0.0	19	97		19	95		1	
Hexachlorobutadiene	20	70	130	15	0.0	22	111		23	113		1	
Naphthalene	20	70	130	15	0.0	19	93		19	93		0	
1,2,3-Trichlorobenzene	20	70	130	15	0.0	20	100		20	102		2	
1,3,5-Trichlorobenzene	20	70	130	15	0.0	21	103		20	99		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 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: 73421
Non-spiked sample: B807302B
Spike: L807302B
Spike duplicate: L807302B2

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	17	84		17	83		0	
Chloromethane	20	40	125	15	0.0	14	69		13	67		3	
Vinyl Chloride	20	70	130	15	0.0	16	81		16	80		1	
Bromomethane	20	40	145	15	0.0	20	99		18	92		7	
Chloroethane	20	70	130	15	0.0	16	78		16	82		5	
t-Butyl alcohol (TBA)	100	70	130	15	0.0	85	85		87	87		2	
Trichlorofluoromethane	20	70	130	15	0.0	16	82		16	82		0	
Diethyl ether	20	70	130	15	0.0	18	92		19	94		2	
1,1,2-Trichlorotrifluoroethane	20	70	130	15	0.0	17	84		17	83		2	
Acetone	100	40	140	15	0.0	81	81		83	83		2	
1,1-Dichloroethene	20	75	125	15	0.0	17	85		17	86		1	
Methyl iodide	20	70	130	15	0.0	19	93		19	96		3	
Di-isopropyl ether (DIPE)	20	70	130	15	0.0	19	93		19	93		0	
Methylene Chloride	20	70	130	15	0.0	17	85		18	89		5	
Carbon Disulfide	20	70	130	15	0.0	16	78		16	78		0	
Acrylonitrile	20	70	130	15	0.0	19	93		19	97		5	
Methyl-tert-butyl ether (MTBE)	40	70	130	15	0.0	38	96		38	96		0	
trans-1,2-Dichloroethene	20	75	125	15	0.0	19	97		19	95		2	
1,1-Dichloroethane	20	70	130	15	0.0	17	87		17	86		1	
Vinyl acetate	20	70	130	15	0.0	20	100		20	101		1	
Methyl ethyl ketone	100	40	150	15	0.0	86	86		86	86		1	
Ethyl t-butyl ether (ETBE)	20	70	130	15	0.0	20	100		20	98		1	
2,2-Dichloropropane	20	70	130	15	0.0	18	89		17	86		4	
cis-1,2-Dichloroethene	20	75	125	15	0.0	19	96		20	98		1	
t-Amyl methyl ether (TAME)	20	70	130	15	0.0	19	94		18	92		2	
Chloroform	20	70	130	15	0.0	18	91		18	92		1	
Bromochloromethane	20	70	130	15	0.0	20	98		20	101		2	
Tetrahydrofuran	20	70	130	15	0.0	18	88		18	91		3	
1,1,1-Trichloroethane	20	75	125	15	0.0	18	91		18	89		2	
1,1-Dichloropropene	20	75	130	15	0.0	19	95		19	93		2	
Carbon Tetrachloride	20	75	125	15	0.0	19	94		18	92		3	
1,2-Dichloroethane	20	70	130	15	0.0	18	88		18	88		0	
Benzene	20	80	120	15	0.0	18	90		18	89		0	
Trichloroethene	20	75	125	15	0.0	19	95		19	94		2	
1,2-Dichloropropane	20	75	125	15	0.0	19	93		18	92		1	
Methylmethacrylate	20	70	130	15	0.0	18	88		19	94		7	
Bromodichloromethane	20	75	120	15	0.0	20	98		19	96		2	
Dibromomethane	20	75	125	15	0.0	18	89		18	89		0	
1,4-Dioxane	500	40	160	15	0.0	443	89		425	85		4	
2-Hexanone	100	55	130	15	0.0	87	87		89	89		2	
Methyl isobutyl ketone	100	60	135	15	0.0	88	88		90	90		3	
cis-1,3-Dichloropropene	20	70	130	15	0.0	20	98		19	95		3	
Toluene	20	75	120	15	0.0	20	99		19	96		3	
trans-1,3-Dichloropropene	20	70	130	15	0.0	20	102		20	101		1	
1,1,2-Trichloroethane	20	75	125	15	0.0	20	100		20	99		2	
1,3-Dichloropropane	20	75	125	15	0.0	20	101		20	99		2	
Tetrachloroethene	20	75	125	15	0.0	24	118		23	114		4	
Dibromochloromethane	20	70	130	15	0.0	22	110		22	109		1	
1,2-Dibromoethane	20	80	120	15	0.0	21	105		21	106		1	
Chlorobenzene	20	80	120	15	0.0	20	99		20	100		1	
1,1,1,2-Tetrachloroethane	20	80	130	15	0.0	21	103		21	103		0	

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: 73421
Non-spiked sample: B807302B
Spike: L807302B
Spike duplicate: L807302B2

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	19	93		19	94		1	
m,p-Xylene	40	75	125	15	0.0	40	99		39	98		1	
o-Xylene	20	80	120	15	0.0	20	100		20	99		1	
Styrene	20	70	130	15	0.0	19	96		19	96		0	
Bromoform	20	70	130	15	0.0	21	105		21	106		1	
Isopropylbenzene	20	75	125	15	0.0	20	101		20	100		1	
1,1,2,2-Tetrachloroethane	20	70	130	15	0.0	19	94		19	95		1	
1,2,3-Trichloropropane	20	75	125	15	0.0	18	89		19	94		5	
n-Propylbenzene	20	70	130	15	0.0	19	97		19	96		1	
Bromobenzene	20	75	125	15	0.0	19	94		19	93		2	
1,3,5-Trimethylbenzene	20	75	130	15	0.0	19	94		19	95		1	
2-Chlorotoluene	20	75	125	15	0.0	19	93		19	97		4	
4-Chlorotoluene	20	75	130	15	0.0	18	89		18	90		1	
tert-butylbenzene	20	70	130	15	0.0	20	98		19	97		1	
1,2,4-Trimethylbenzene	20	75	130	15	0.0	18	91		19	94		4	
sec-butylbenzene	20	70	125	15	0.0	19	97		19	94		3	
p-isopropyltoluene	20	75	130	15	0.0	19	95		19	95		1	
1,3-Dichlorobenzene	20	75	125	15	0.0	20	99		20	99		0	
1,4-Dichlorobenzene	20	75	125	15	0.0	20	99		20	99		0	
n-butylbenzene	20	70	130	15	0.0	20	99		20	100		1	
1,2-Dichlorobenzene	20	70	120	15	0.0	20	99		19	97		2	
1,2-Dibromo-3-chloropropane	20	70	130	15	0.0	18	91		19	95		5	
1,2,4-Trichlorobenzene	20	70	130	15	0.0	19	96		20	99		3	
Hexachlorobutadiene	20	70	130	15	0.0	22	111		23	114		2	
Naphthalene	20	70	130	15	0.0	19	95		20	100		6	
1,2,3-Trichlorobenzene	20	70	130	15	0.0	21	104		21	105		1	
1,3,5-Trichlorobenzene	20	70	130	15	0.0	20	102		21	105		3	

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: 73421
Non-spiked sample: MB08032C
Spike: LS08032C
Spike duplicate: LS08032C2

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	1713	86	*	1670	83	*	3	
Chloromethane	2000	2000	75	125	25	0	2511	126	*	2138	107			16
Vinyl Chloride	2000	2000	75	125	25	0	2085	104		1837	92			13
Bromomethane	2000	2000	75	125	25	0	1664	83		1993	100			18
Chloroethane	2000	2000	75	125	25	0	1127	56	*	1979	99			55 *
t-Butyl alcohol (TBA)	10000	10000	60	140	25	0	8204	82		8536	85			4
Trichlorofluoromethane	2000	2000	75	125	25	0	2068	103		2045	102			1
Diethyl ether	2000	2000	75	125	25	0	2220	111		2132	107			4
1,1,2-Trichlorotrifluoroethane	2000	2000	75	125	25	0	1825	91		1932	97			6
Acetone	5000	5000	75	125	25	0	7464	149	*	7586	152	*		2
1,1-Dichloroethene	2000	2000	75	125	25	0	2239	112		2239	112			0
Methyl iodide	2000	2000	75	125	25	0	1944	97		2052	103			5
Di-isopropyl ether (DIPE)	2000	2000	75	125	25	0	2429	121		2328	116			4
Methylene Chloride	2000	2000	75	125	25	0	2343	117		2281	114			3
Carbon Disulfide	2000	2000	75	125	25	0	2280	114		2284	114			0
Acrylonitrile	2000	2000	75	125	25	0	2335	117		2339	117			0
Methyl-tert-butyl ether (MTBE)	2000	2000	75	125	25	0	2246	112		2231	112			1
trans-1,2-Dichloroethene	2000	2000	75	125	25	0	2254	113		2215	111			2
1,1-Dichloroethane	2000	2000	75	125	25	0	2365	118		2336	117			1
Methyl ethyl ketone	5000	5000	60	140	25	0	5518	110		5315	106			4
Ethyl t-butyl ether (ETBE)	2000	2000	75	125	25	0	2214	111		2161	108			2
2,2-Dichloropropane	2000	2000	75	125	25	0	2640	132	*	2446	122			8
cis-1,2-Dichloroethene	2000	2000	75	125	25	0	2218	111		2253	113			2
t-Amyl methyl ether (TAME)	2000	2000	75	125	25	0	2159	108		2028	101			6
Chloroform	2000	2000	75	125	25	0	2373	119		2350	118			1
Bromochloromethane	2000	2000	75	125	25	0	2179	109		2187	109			0
Tetrahydrofuran	2000	2000	60	140	25	0	2062	103		2165	108			5
1,1,1-Trichloroethane	2000	2000	75	125	25	0	2240	112		2284	114			2
1,1-Dichloropropene	2000	2000	75	125	25	0	2290	114		2302	115			1
Carbon Tetrachloride	2000	2000	75	125	25	0	2437	122		2223	111			9
1,2-Dichloroethane	2000	2000	75	125	25	0	2252	113		2253	113			0
Benzene	2000	2000	75	125	25	0	2249	112		2265	113			1
Trichloroethene	2000	2000	75	125	25	0	1964	98		1943	97			1
1,2-Dichloropropane	2000	2000	75	125	25	0	2272	114		2323	116			2
Methylmethacrylate	2000	2000	75	125	25	0	1987	99		1999	100			1
Bromodichloromethane	2000	2000	75	125	25	0	2257	113		2237	112			1
Dibromomethane	2000	2000	75	125	25	0	2144	107		2179	109			2
1,4-Dioxane	25000	25000	60	140	25	0	21160	85		25309	101			18
2-Hexanone	5000	5000	75	125	25	0	5332	107		5458	109			2
Methyl isobutyl ketone	5000	5000	75	125	25	0	5178	104		5148	103			1
cis-1,3-Dichloropropene	2000	2000	75	125	25	0	2305	115		2376	119			3
Toluene	2000	2000	75	125	25	0	2079	104		2138	107			3
trans-1,3-Dichloropropene	2000	2000	75	125	25	0	2029	101		2084	104			3
1,1,2-Trichloroethane	2000	2000	75	125	25	0	2213	111		2251	113			2
1,3-Dichloropropane	2000	2000	75	125	25	0	2150	107		2214	111			3
Tetrachloroethene	2000	2000	75	125	25	0	1850	92		1908	95			3
Dibromochloromethane	2000	2000	75	125	25	0	2144	107		2164	108			1
1,2-Dibromoethane	2000	2000	75	125	25	0	2007	100		2055	103			2
Chlorobenzene	2000	2000	75	125	25	0	2068	103		2086	104			1
1,1,1,2-Tetrachloroethane	2000	2000	75	125	25	0	2103	105		2180	109			4
Ethylbenzene	2000	2000	75	125	25	0	2081	104		2183	109			5
m,p-Xylene	4000	4000	75	125	25	0	4073	102		4186	105			3
o-Xylene	2000	2000	75	125	25	0	2136	107		2131	107			0

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: 73421
Non-spiked sample: MB08032C
Spike: LS08032C
Spike duplicate: LS08032C

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	#
Styrene	2000	2000	75	125	25	0	2043	102		2120	106		4	
Bromoform	2000	2000	75	125	25	0	2069	103		2082	104		1	
Isopropylbenzene	2000	2000	75	125	25	0	2138	107		2183	109		2	
1,1,2,2-Tetrachloroethane	2000	2000	75	125	25	0	2217	111		2176	109		2	
1,2,3-Trichloropropane	2000	2000	75	125	25	0	1956	98		1966	98		1	
trans-1,4-Dichloro-2-butene	2000	2000	75	125	25	0	2027	101		2086	104		3	
n-Propylbenzene	2000	2000	75	125	25	0	2111	106		2153	108		2	
Bromobenzene	2000	2000	75	125	25	0	2061	103		2093	105		2	
1,3,5-Trimethylbenzene	2000	2000	75	125	25	0	2113	106		2091	105		1	
2-Chlorotoluene	2000	2000	75	125	25	0	2243	112		2174	109		3	
4-Chlorotoluene	2000	2000	75	125	25	0	2059	103		2130	107		3	
tert-butylbenzene	2000	2000	75	125	25	0	2039	102		2100	105		3	
1,2,4-Trimethylbenzene	2000	2000	75	125	25	0	2023	101		2023	101		0	
sec-butylbenzene	2000	2000	75	125	25	0	2095	105		2164	108		3	
p-isopropyltoluene	2000	2000	75	125	25	0	2067	103		2096	105		1	
1,3-Dichlorobenzene	2000	2000	75	125	25	0	2077	104		2148	107		3	
1,4-Dichlorobenzene	2000	2000	75	125	25	0	2101	105		2132	107		1	
n-butylbenzene	2000	2000	75	125	25	0	2274	114		2300	115		1	
1,2-Dichlorobenzene	2000	2000	75	125	25	0	2120	106		2130	107		0	
1,2-Dibromo-3-chloropropane	2000	2000	75	125	25	0	1808	90		1785	89		1	
1,2,4-Trichlorobenzene	2000	2000	75	125	25	0	1875	94		1823	91		3	
Hexachlorobutadiene	2000	2000	75	125	25	0	1827	91		1761	88		4	
Naphthalene	2000	2000	75	125	25	0	1908	95		1796	90		6	
1,2,3-Trichlorobenzene	2000	2000	75	125	25	0	1997	100		1858	93		7	

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: 73421
Non-spiked sample: MB08062C
Spike: LS08062C
Spike duplicate: LS08062C2

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	1135	57		1093	55		4	
Chloromethane	2000	2000	75	125	25	0	1623	81		1716	86		6	
Vinyl Chloride	2000	2000	75	125	25	0	1375	69	*	1353	68	*	2	
Bromomethane	2000	2000	75	125	25	0	1700	85		1665	83		2	
Chloroethane	2000	2000	75	125	25	0	1578	79		1552	78		2	
t-Butyl alcohol (TBA)	10000	10000	60	140	25	0	8296	83		9061	91		9	
Trichlorofluoromethane	2000	2000	75	125	25	0	1888	94		1814	91		4	
Diethyl ether	2000	2000	75	125	25	0	1859	93		1907	95		3	
1,1,2-Trichlorotrifluoroethane	2000	2000	75	125	25	0	2072	104		2027	101		2	
Acetone	5000	5000	75	125	25	0	6009	120		6103	122		2	
1,1-Dichloroethene	2000	2000	75	125	25	0	1897	95		1842	92		3	
Methyl iodide	2000	2000	75	125	25	0	1937	97		1895	95		2	
Di-isopropyl ether (DIPE)	2000	2000	75	125	25	0	1991	100		1980	99		1	
Methylene Chloride	2000	2000	75	125	25	0	2080	104		1985	99		5	
Carbon Disulfide	2000	2000	75	125	25	0	1978	99		1937	97		2	
Acrylonitrile	2000	2000	75	125	25	0	1789	89		1823	91		2	
Methyl-tert-butyl ether (MTBE)	2000	2000	75	125	25	0	2060	103		2054	103		0	
trans-1,2-Dichloroethene	2000	2000	75	125	25	0	2093	105		2068	103		1	
1,1-Dichloroethane	2000	2000	75	125	25	0	2085	104		2063	103		1	
Methyl ethyl ketone	5000	5000	60	140	25	0	4960	99		4928	99		1	
Ethyl t-butyl ether (ETBE)	2000	2000	75	125	25	0	2038	102		2022	101		1	
2,2-Dichloropropane	2000	2000	75	125	25	0	2345	117		2354	118		0	
cis-1,2-Dichloroethene	2000	2000	75	125	25	0	2144	107		2118	106		1	
t-Amyl methyl ether (TAME)	2000	2000	75	125	25	0	2037	102		2007	100		1	
Chloroform	2000	2000	75	125	25	0	2174	109		2129	106		2	
Bromochloromethane	2000	2000	75	125	25	0	2197	110		2145	107		2	
Tetrahydrofuran	2000	2000	60	140	25	0	1985	99		2036	102		3	
1,1,1-Trichloroethane	2000	2000	75	125	25	0	2075	104		2121	106		2	
1,1-Dichloropropene	2000	2000	75	125	25	0	2162	108		2105	105		3	
Carbon Tetrachloride	2000	2000	75	125	25	0	2173	109		2120	106		2	
1,2-Dichloroethane	2000	2000	75	125	25	0	2049	102		2025	101		1	
Benzene	2000	2000	75	125	25	0	2111	106		2073	104		2	
Trichloroethene	2000	2000	75	125	25	0	2047	102		1934	97		6	
1,2-Dichloropropane	2000	2000	75	125	25	0	2184	109		2066	103		6	
Methylmethacrylate	2000	2000	75	125	25	0	1920	96		1950	97		2	
Bromodichloromethane	2000	2000	75	125	25	0	2058	103		1997	100		3	
Dibromomethane	2000	2000	75	125	25	0	2005	100		1930	97		4	
1,4-Dioxane	25000	25000	60	140	25	0	22372	89		25318	101		12	
2-Hexanone	5000	5000	75	125	25	0	4202	84		4110	82		2	
Methyl isobutyl ketone	5000	5000	75	125	25	0	4496	90		4440	89		1	
cis-1,3-Dichloropropene	2000	2000	75	125	25	0	2183	109		2078	104		5	
Toluene	2000	2000	75	125	25	0	2126	106		2010	100		6	
trans-1,3-Dichloropropene	2000	2000	75	125	25	0	2015	101		1970	99		2	
1,1,2-Trichloroethane	2000	2000	75	125	25	0	2062	103		1982	99		4	
1,3-Dichloropropane	2000	2000	75	125	25	0	2034	102		1984	99		3	
Tetrachloroethene	2000	2000	75	125	25	0	2040	102		1878	94		8	
Dibromochloromethane	2000	2000	75	125	25	0	2100	105		1967	98		7	
1,2-Dibromoethane	2000	2000	75	125	25	0	2064	103		1985	99		4	
Chlorobenzene	2000	2000	75	125	25	0	2195	110		2124	106		3	
1,1,1,2-Tetrachloroethane	2000	2000	75	125	25	0	2232	112		2146	107		4	
Ethylbenzene	2000	2000	75	125	25	0	2178	109		2075	104		5	
m,p-Xylene	4000	4000	75	125	25	0	4513	113		4282	107		5	
o-Xylene	2000	2000	75	125	25	0	2257	113		2178	109		4	

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: 73421
Non-spiked sample: MB08062C
Spike: LS08062C
Spike duplicate: LS08062C2

COMPOUND	LCS SPIKE	LCSD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP	SPIKE DUP	RPD	#
	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	RESULT (ug/kg)	% REC		
Styrene	2000	2000	75	125	25	0	2253	113	2198	110	2	
Bromoform	2000	2000	75	125	25	0	2072	104	1996	100	4	
Isopropylbenzene	2000	2000	75	125	25	0	2272	114	2171	109	5	
1,1,2,2-Tetrachloroethane	2000	2000	75	125	25	0	2071	104	2056	103	1	
1,2,3-Trichloropropane	2000	2000	75	125	25	0	1919	96	1955	98	2	
trans-1,4-Dichloro-2-butene	2000	2000	75	125	25	0	2009	100	2131	107	6	
n-Propylbenzene	2000	2000	75	125	25	0	1687	84	1625	81	4	
Bromobenzene	2000	2000	75	125	25	0	1804	90	1724	86	5	
1,3,5-Trimethylbenzene	2000	2000	75	125	25	0	1909	95	1837	92	4	
2-Chlorotoluene	2000	2000	75	125	25	0	2192	110	2120	106	3	
4-Chlorotoluene	2000	2000	75	125	25	0	1823	91	1758	88	4	
tert-butylbenzene	2000	2000	75	125	25	0	2162	108	2031	102	6	
1,2,4-Trimethylbenzene	2000	2000	75	125	25	0	2234	112	2084	104	7	
sec-butylbenzene	2000	2000	75	125	25	0	2165	108	2102	105	3	
p-isopropyltoluene	2000	2000	75	125	25	0	1970	99	1848	92	6	
1,3-Dichlorobenzene	2000	2000	75	125	25	0	2223	111	2111	106	5	
1,4-Dichlorobenzene	2000	2000	75	125	25	0	2237	112	2147	107	4	
n-butylbenzene	2000	2000	75	125	25	0	2273	114	2160	108	5	
1,2-Dichlorobenzene	2000	2000	75	125	25	0	2259	113	2107	105	7	
1,2-Dibromo-3-chloropropane	2000	2000	75	125	25	0	1785	89	1721	86	4	
1,2,4-Trichlorobenzene	2000	2000	75	125	25	0	2046	102	1913	96	7	
Hexachlorobutadiene	2000	2000	75	125	25	0	2160	108	1958	98	10	
Naphthalene	2000	2000	75	125	25	0	1982	99	1888	94	5	
1,2,3-Trichlorobenzene	2000	2000	75	125	25	0	2111	106	1949	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: _____

VPH
DATA SUMMARIES

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B101-S3

Lab Sample ID: 73421-1
Matrix: Solid
Percent Solid: 79
Dilution Factor: 73
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/01/12

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	3670	µg/kg	20500
Unadjusted C9-C12 Aliphatics	N/A	3670	µg/kg	19000
Benzene	C5-C8	147	µg/kg	147
Ethylbenzene	C9-C12	147	µg/kg	681
Methyl-tert-butyl ether	C5-C8	73	µg/kg	207
Naphthalene	N/A	147	µg/kg	295
Toluene	C5-C8	147	µg/kg	362
m- & p-Xylenes	C9-C12	293	µg/kg	916
o-Xylene	C9-C12	147	µg/kg	232
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3670	µg/kg	19800
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3670	µg/kg	8150
C9-C10 Aromatic Hydrocarbons ¹	N/A	733	µg/kg	9020
Surrogate % Recovery (Trifluorotoluene) PID				123
Surrogate % Recovery (Trifluorotoluene) FID				130
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
 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.

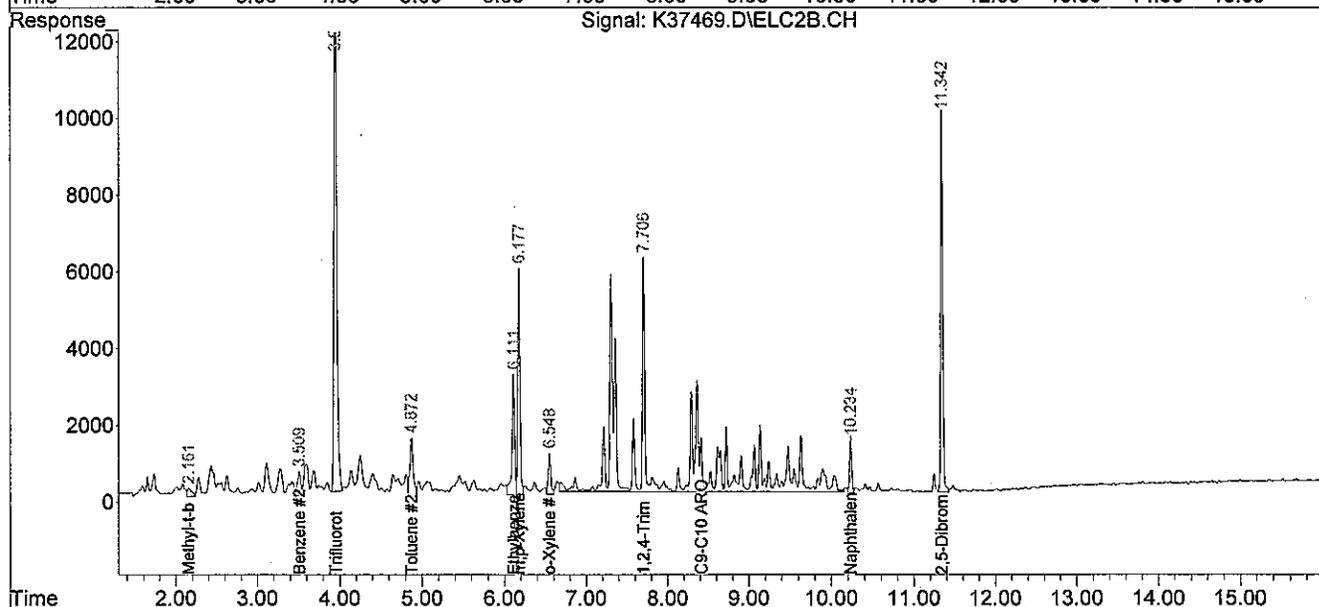
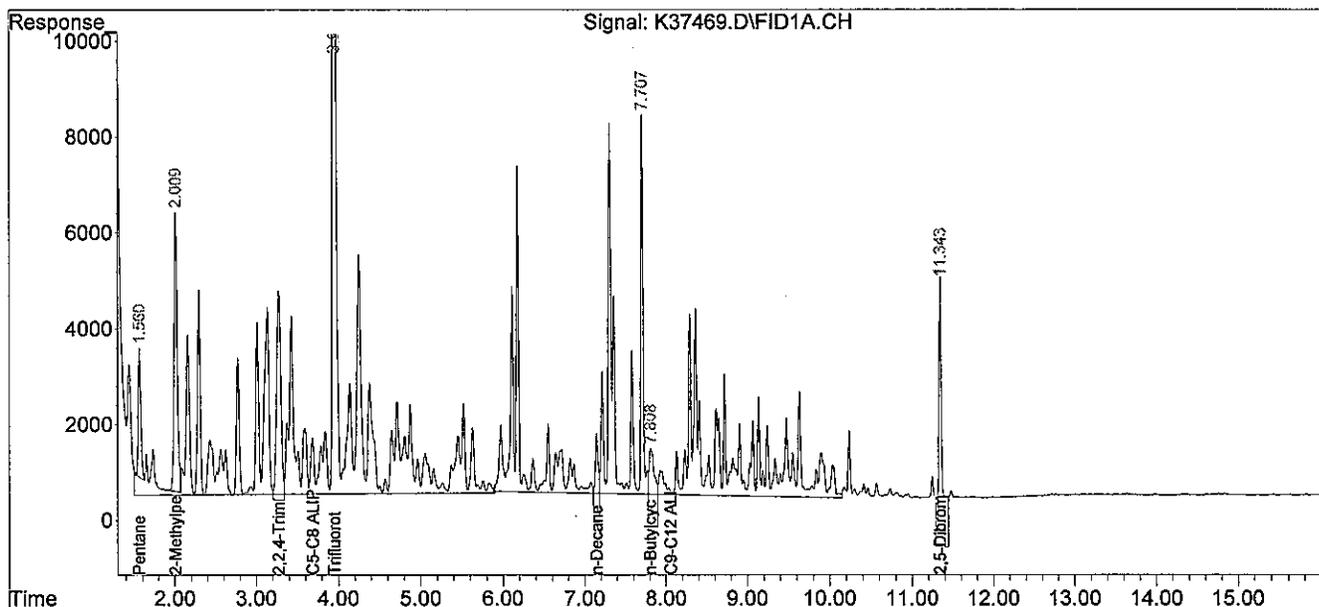
Authorized signature: 

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37469.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 1:06 pm
 Operator : JK
 Sample : 73421-1
 Misc : 100,16.80,SOIL,,16 ML FV
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 09 10:51:48 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 :



Mr. Erik Phenix
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400 Commercial Street Suite 404
Portland, ME 04101

August 6, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B103-S5

Lab Sample ID: 73421-2
Matrix: Solid
Percent Solid: 91
Dilution Factor: 59
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/01/12

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	2930	µg/kg	U
Unadjusted C9-C12 Aliphatics	N/A	2930	µg/kg	U
Benzene	C5-C8	117	µg/kg	U
Ethylbenzene	C9-C12	117	µg/kg	U
Methyl-tert-butyl ether	C5-C8	59	µg/kg	U
Naphthalene	N/A	117	µg/kg	U
Toluene	C5-C8	117	µg/kg	U
m- & p-Xylenes	C9-C12	235	µg/kg	U
o-Xylene	C9-C12	117	µg/kg	U
C5-C8 Aliphatic Hydrocarbons ^{1,2}	N/A	2930	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	2930	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	586	µg/kg	732
Surrogate % Recovery (Trifluorotoluene) PID				96
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 range.
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. of C9-C10 Aromatic Hydrocarbons.
 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.

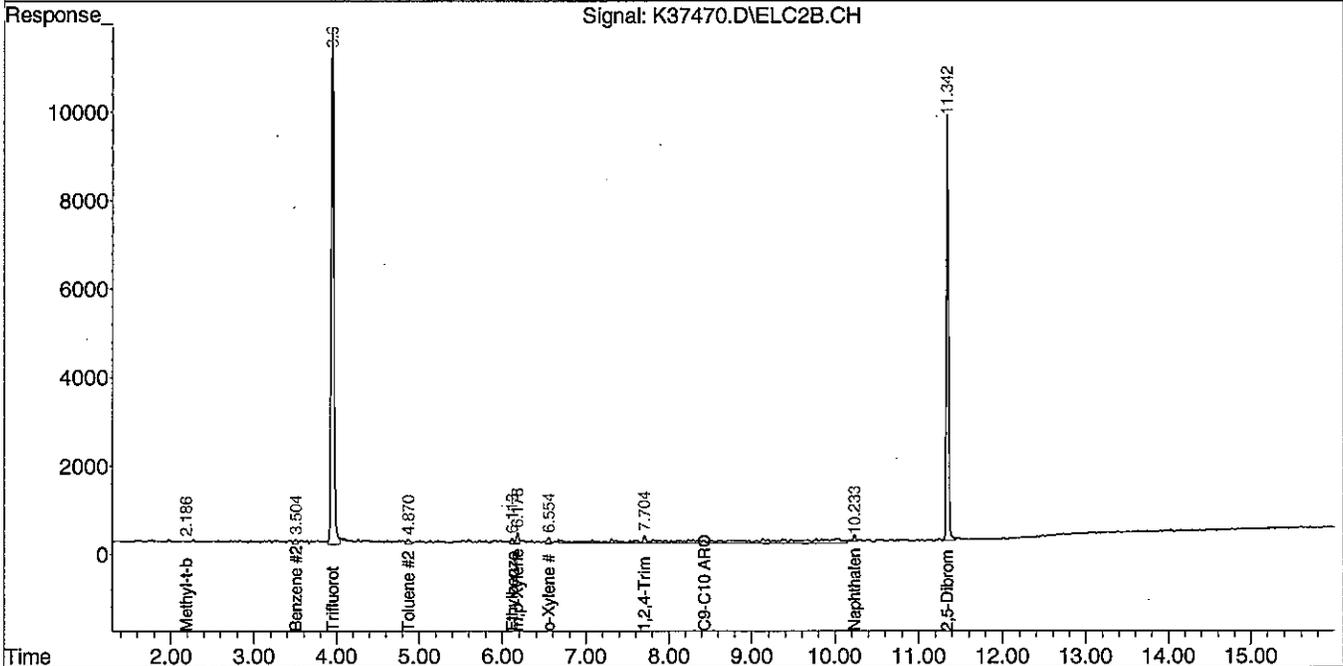
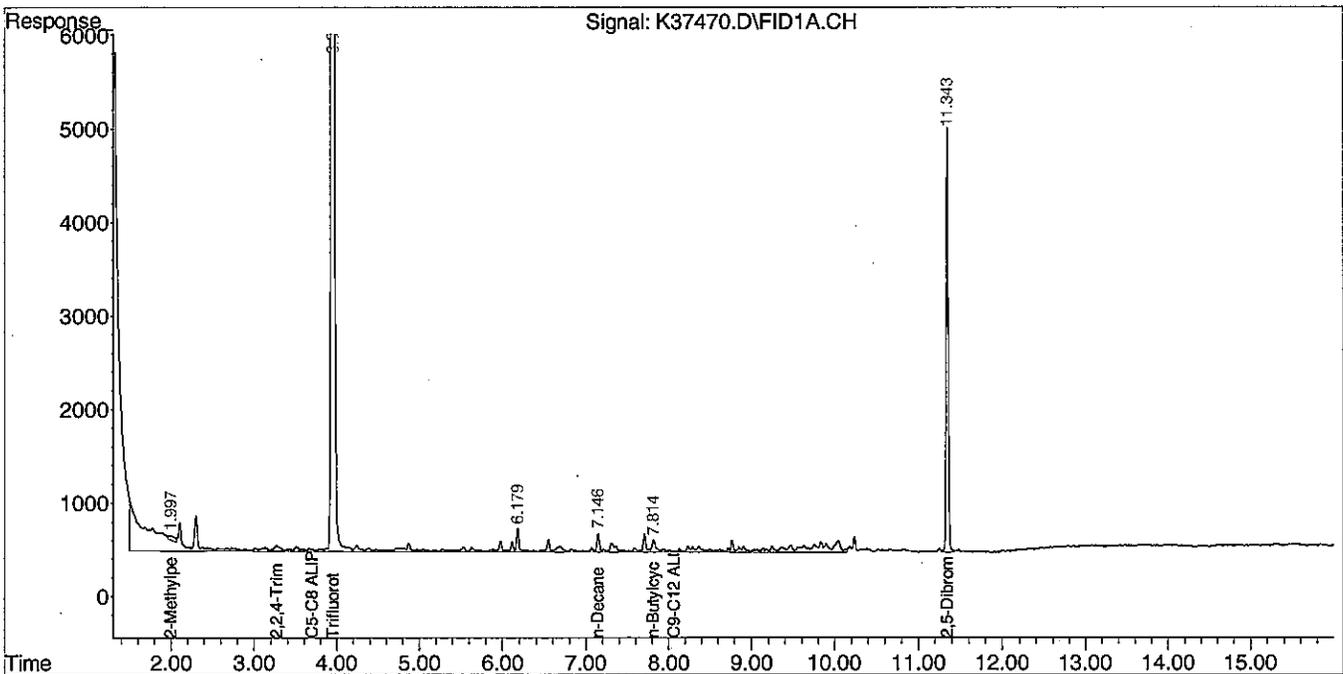
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37470.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 1:33 pm
 Operator : JK
 Sample : 73421-2
 Misc : 100,19.62,SOIL,,19 ML FV
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 01 16:39:28 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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August 6, 2012

SAMPLE DATA

Lab Sample ID: 73421-3
Matrix: Solid
Percent Solid: 90
Dilution Factor: 57
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/01/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B105-S1

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	2860	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	2860	µg/kg	U
C5-C8 Aliphatic Hydrocarbons ^{1,2}	N/A	2860	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	2860	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	572	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				99
Surrogate % Recovery (Trifluorotoluene) FID				100
Surrogate Acceptance Range				70-130%

¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
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. of 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.

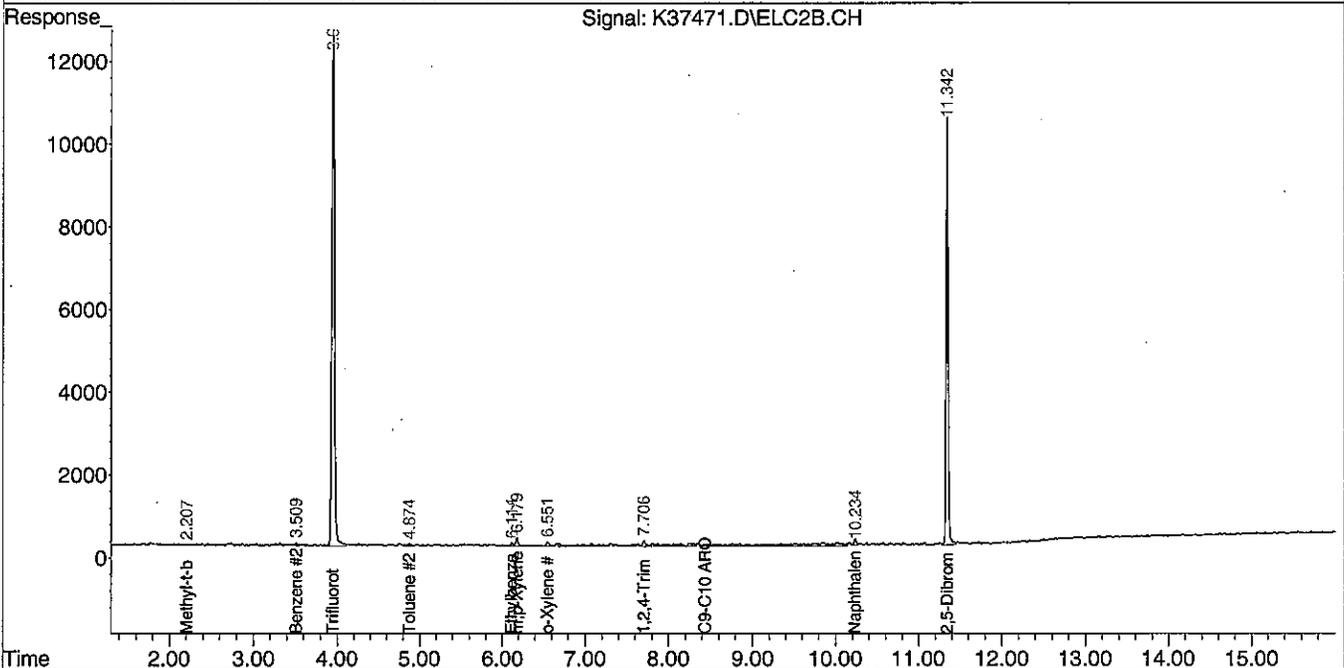
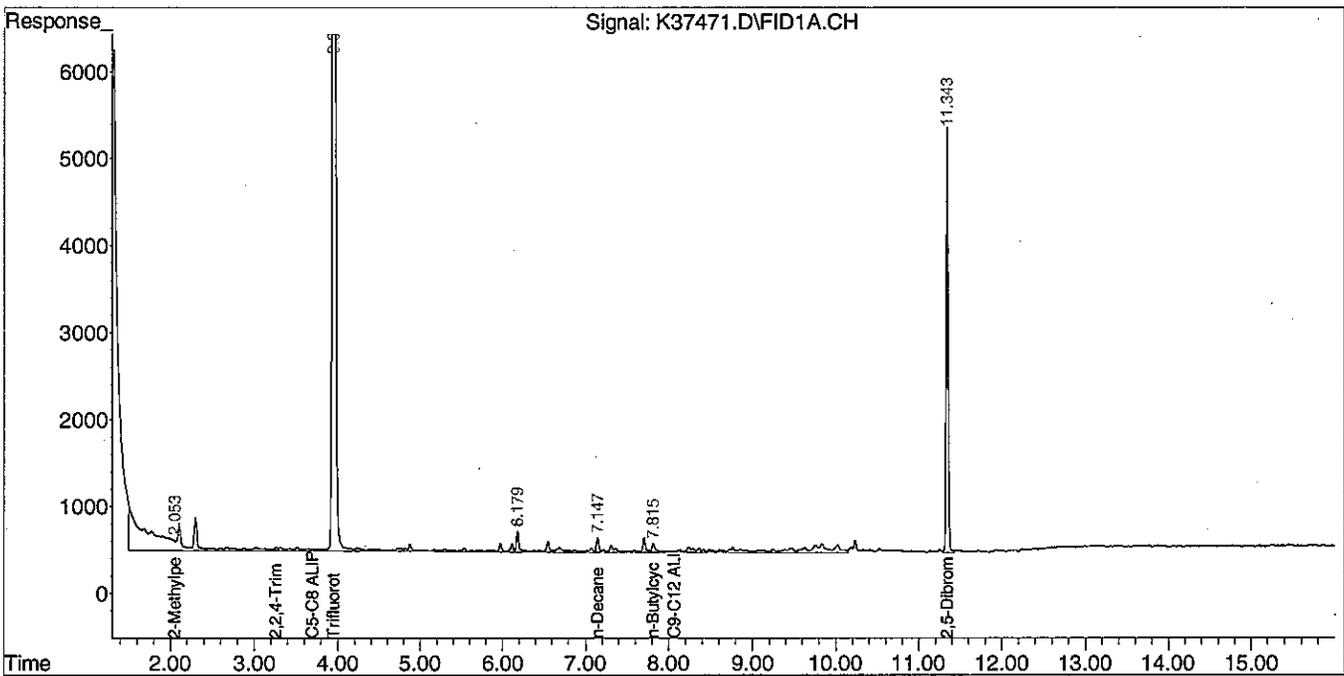
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37471.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 2:00 pm
 Operator : JK
 Sample : 73421-3
 Misc : 100,14.95,SOIL,,14 ML FV
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 01 16:39:29 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 6, 2012

SAMPLE DATA

Lab Sample ID: 73421-4
Matrix: Solid
Percent Solid: 90
Dilution Factor: 61
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/01/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B106-S6

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	3040	µg/kg	U
Unadjusted C9-C12 Aliphatics	N/A	3040	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3040	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3040	µg/kg	U
C9-C10 Aromatic Hydrocarbons	N/A	608	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				100
Surrogate % Recovery (Trifluorotoluene) FID				101
Surrogate Acceptance Range				70-130%
¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range 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. of 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.

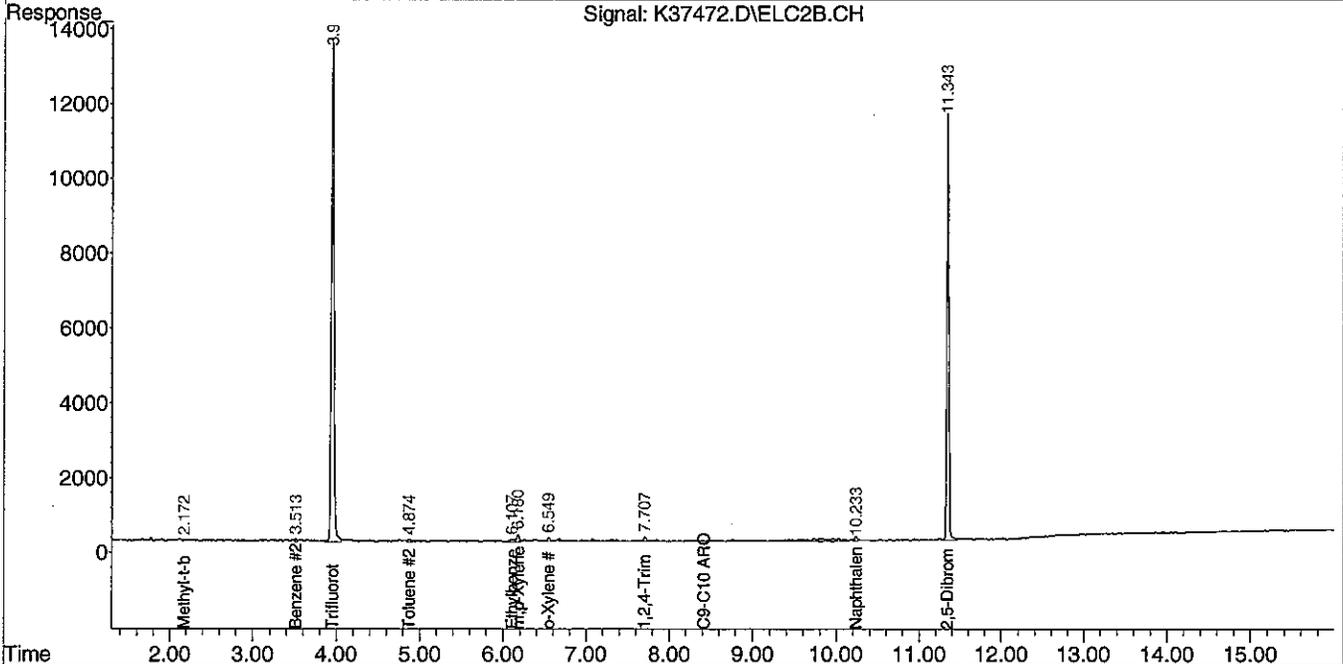
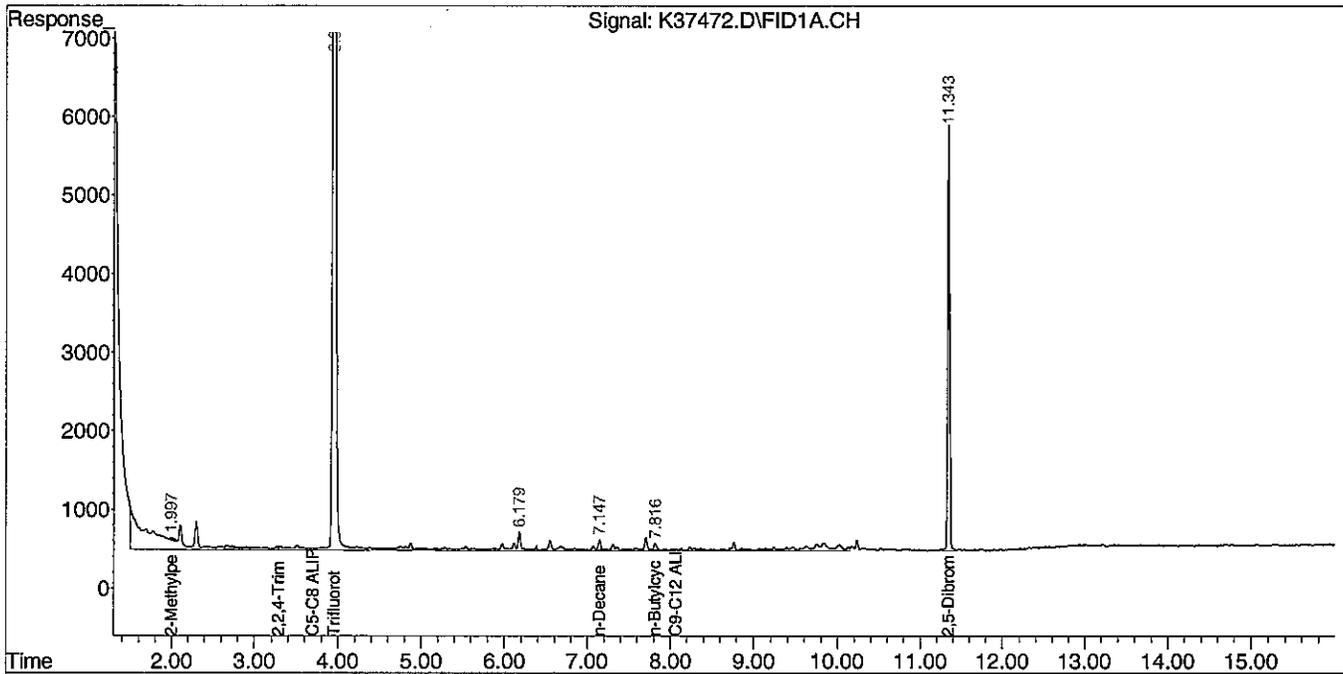
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37472.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 2:27 pm
 Operator : JK
 Sample : 73421-4
 Misc : 100,16.10,SOIL,,16 ML FV
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 06 14:55:52 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 6, 2012

SAMPLE DATA

Lab Sample ID: 73421-5
Matrix: Solid
Percent Solid: 92
Dilution Factor: 279
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/01/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B107-S1

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	13900	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	13900	µg/kg	105000
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	13900	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	13900	µg/kg	46800
C9-C10 Aromatic Hydrocarbons ¹	N/A	2790	µg/kg	58000
Surrogate % Recovery (Trifluorotoluene) PID				106
Surrogate % Recovery (Trifluorotoluene) FID				109
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. Of 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.

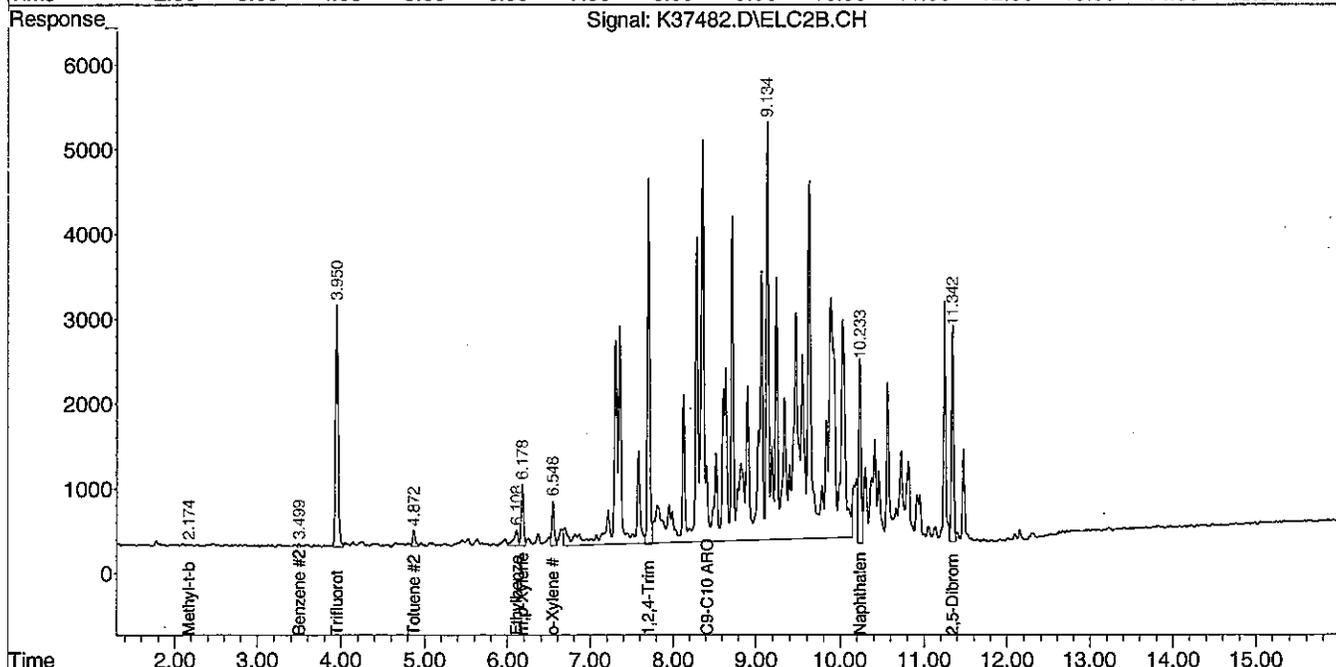
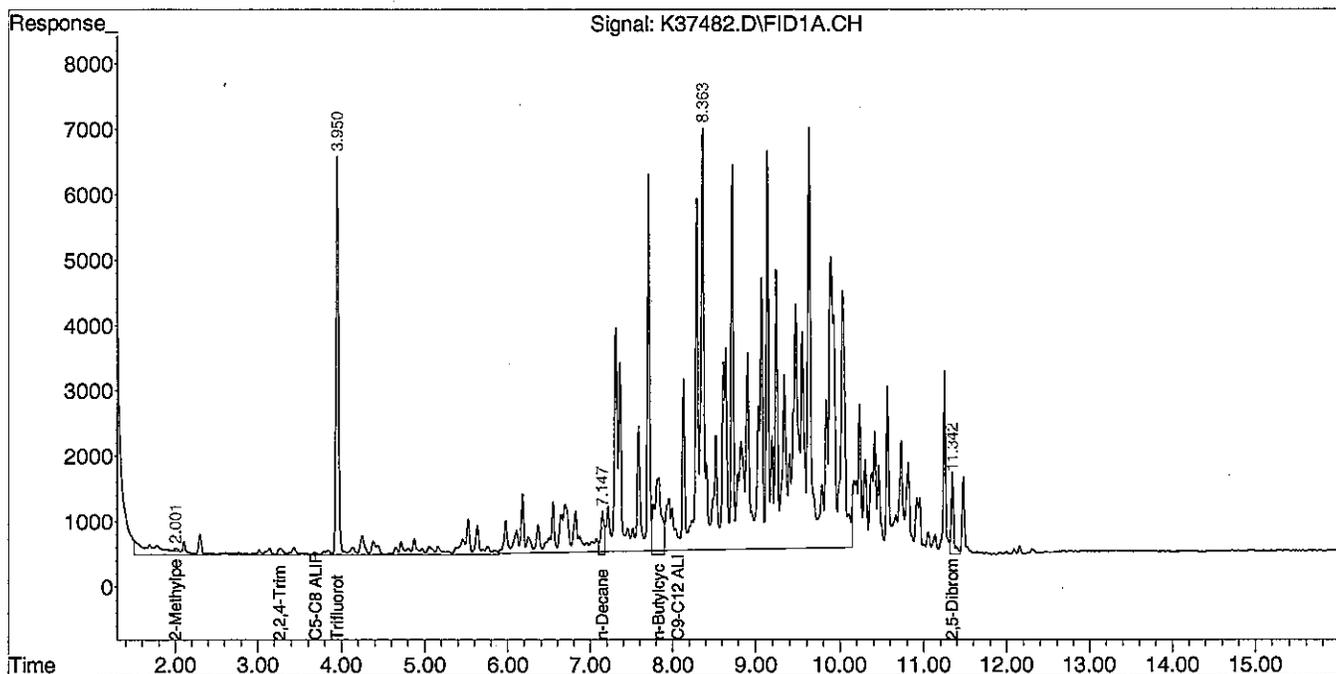
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37482.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 6:56 pm
 Operator : JK
 Sample : 73421-5,,5X
 Misc : 20,17.81,SOIL,,17 ML FV
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 01 22:05:17 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 6, 2012

SAMPLE DATA

Lab Sample ID: 73421-6
Matrix: Solid
Percent Solid: 96
Dilution Factor: 54
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/01/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B108-S1

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	2720	µg/kg	U
Unadjusted C9-C12 Aliphatics	N/A	2720	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	2720	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	2720	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	544	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				85
Surrogate % Recovery (Trifluorotoluene) FID				85
Surrogate Acceptance Range				70-130%
¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range 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. of 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.

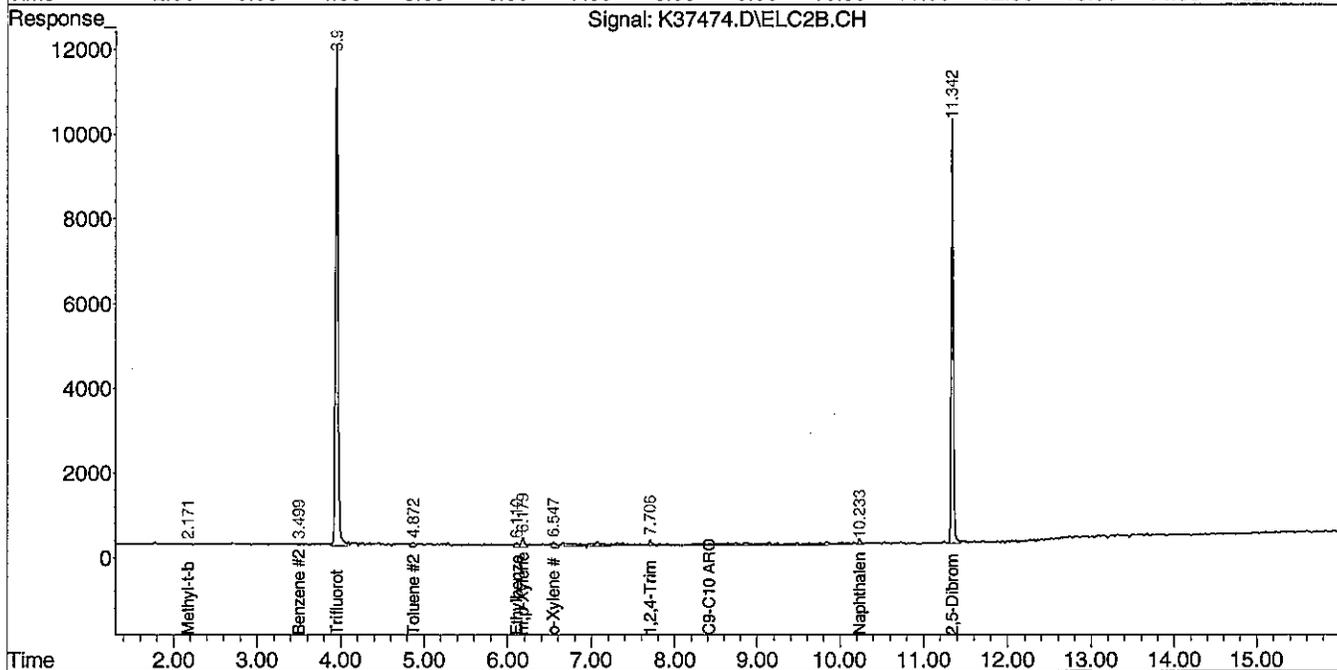
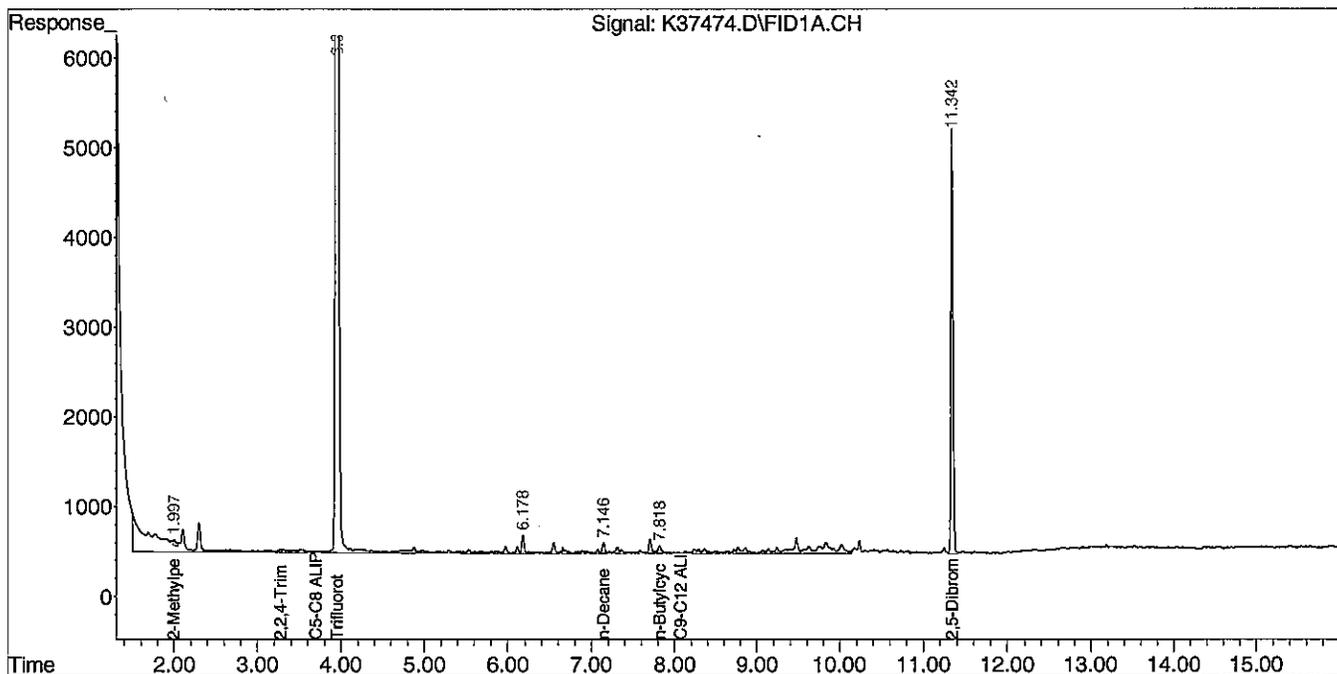
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37474.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 3:21 pm
 Operator : JK
 Sample : 73421-6
 Misc : 100,13.02,SOIL,,13 ML FV
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 06 15:41:01 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

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: MW101

Lab Sample ID: 73421-11
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 2.0
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/07/12

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	100	µg/L	644
Unadjusted C9-C12 Aliphatics	N/A	100	µg/L	1100
Benzene	C5-C8	2	µg/L	5
Ethylbenzene	C9-C12	2	µg/L	57
Methyl-tert-butyl ether	C5-C8	2	µg/L	U
Naphthalene	N/A	2	µg/L	22
Toluene	C5-C8	2	µg/L	107
m- & p-Xylenes	C9-C12	4	µg/L	184
o-Xylene	C9-C12	2	µg/L	81
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	100	µg/L	532
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	100	µg/L	323
C9-C10 Aromatic Hydrocarbons ¹	N/A	20	µg/L	458
Surrogate % Recovery (Trifluorotoluene) PID				119
Surrogate % Recovery (Trifluorotoluene) FID				124
Surrogate Acceptance Range				70-130%

¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
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. of C9-C10 Aromatic Hydrocarbons.
 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.

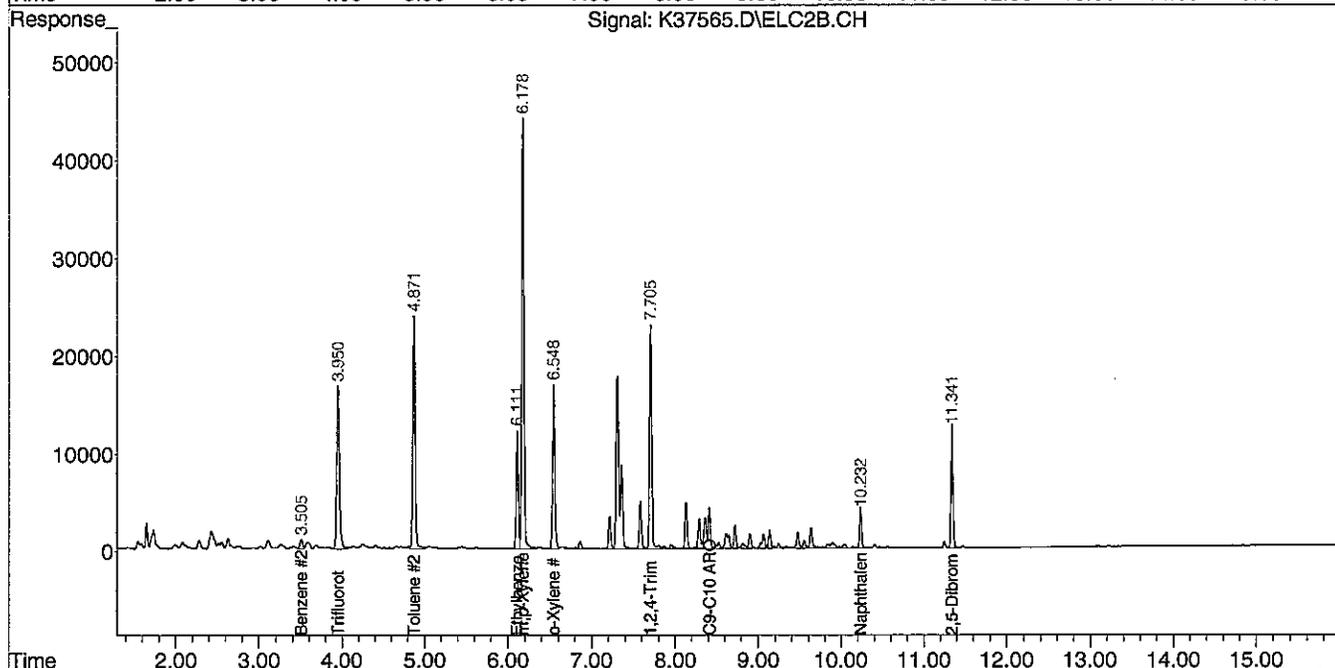
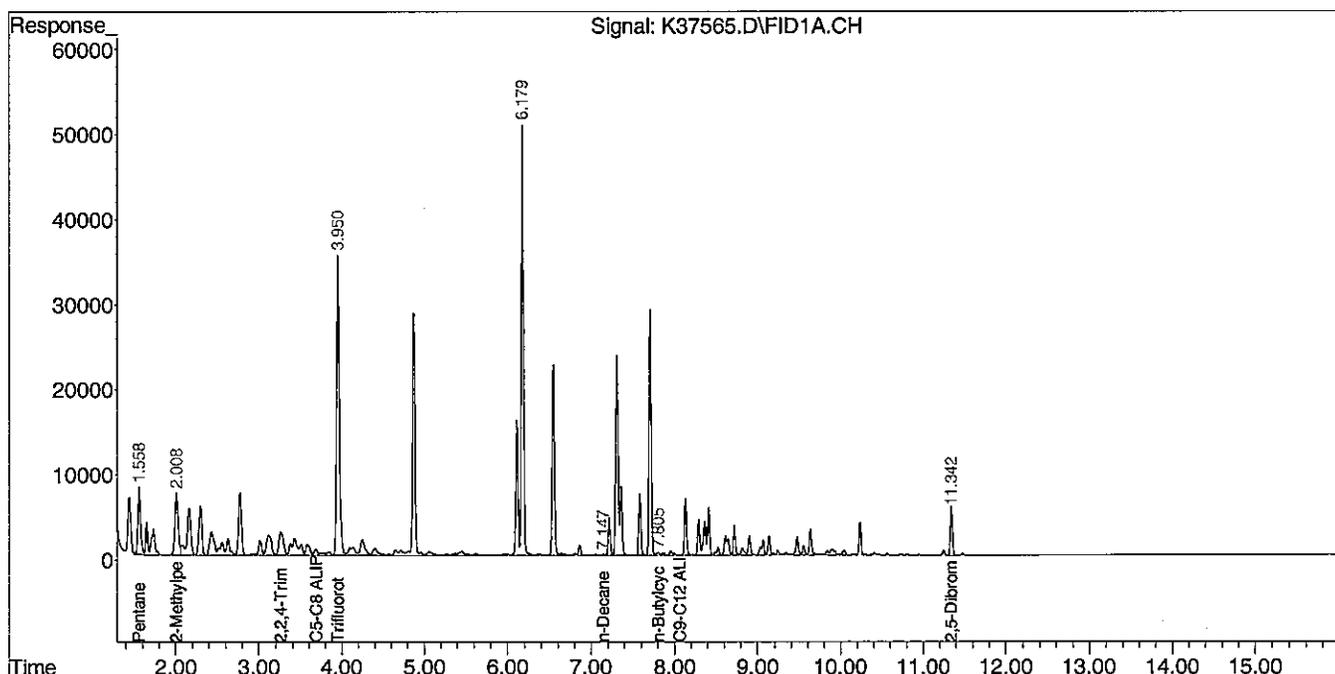
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *mpuball*

Data Path : C:\msdchem\1\DATA\080612-K\
 Data File : K37565.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 07 Aug 2012 9:07 am
 Operator : AR
 Sample : 73421-11,,2X
 Misc : 2500
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 07 10:23:07 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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Portland, ME 04101

August 6, 2012

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: MW102

SAMPLE DATA

Lab Sample ID: 73421-12
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/04/12

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics	N/A	50	µg/L	U
Benzene	C5-C8	1	µg/L	U
Ethylbenzene	C9-C12	1	µg/L	U
Methyl-tert-butyl ether	C5-C8	1	µg/L	3
Naphthalene	N/A	1	µg/L	U
Toluene	C5-C8	1	µg/L	0.6 J
m- & p-Xylenes	C9-C12	2	µg/L	U
o-Xylene	C9-C12	1	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	N/A	10	µg/L	12
Surrogate % Recovery (Trifluorotoluene) PID				115
Surrogate % Recovery (Trifluorotoluene) FID				112
Surrogate Acceptance Range				70-130%

¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
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. of C9-C10 Aromatic Hydrocarbons.
 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.

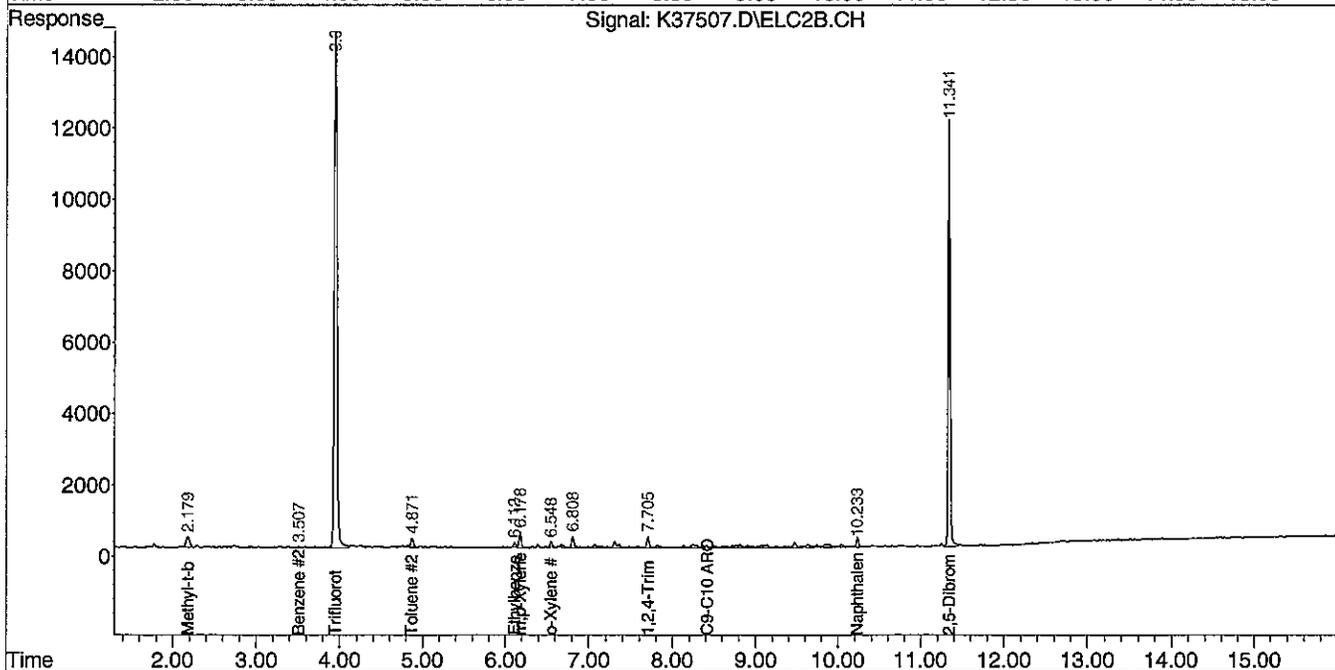
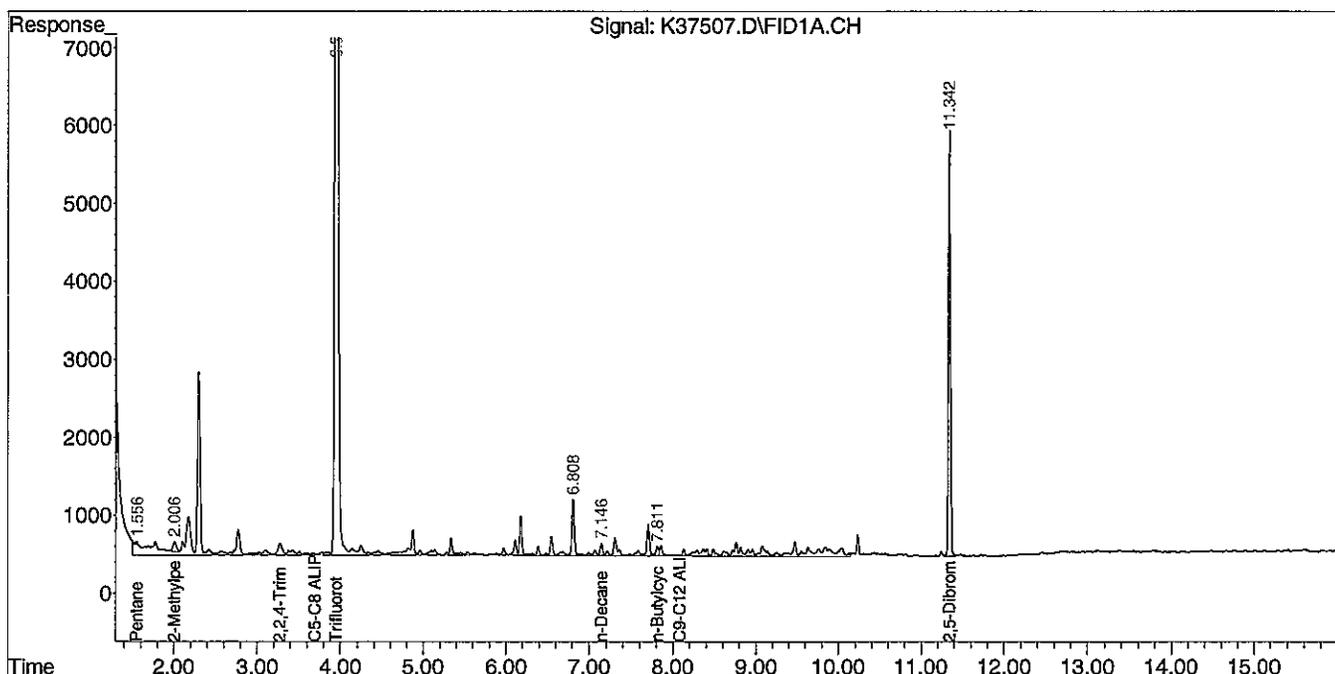
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: 

Data Path : C:\MSDCHEM\1\DATA\080312-K\
 Data File : K37507.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 04 Aug 2012 7:07 am
 Operator : AR
 Sample : 73421-12
 Misc : 5000
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 06 14:33:32 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 :



Mr. Erik Phenix
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400 Commercial Street Suite 404
Portland, ME 04101

August 6, 2012

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: MW103

SAMPLE DATA
Lab Sample ID: 73421-13
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/04/12

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 Aliphatic 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 (2,5-Dibromotoluene) PID				118
Surrogate % Recovery (2,5-Dibromotoluene) FID				116
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. of 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.

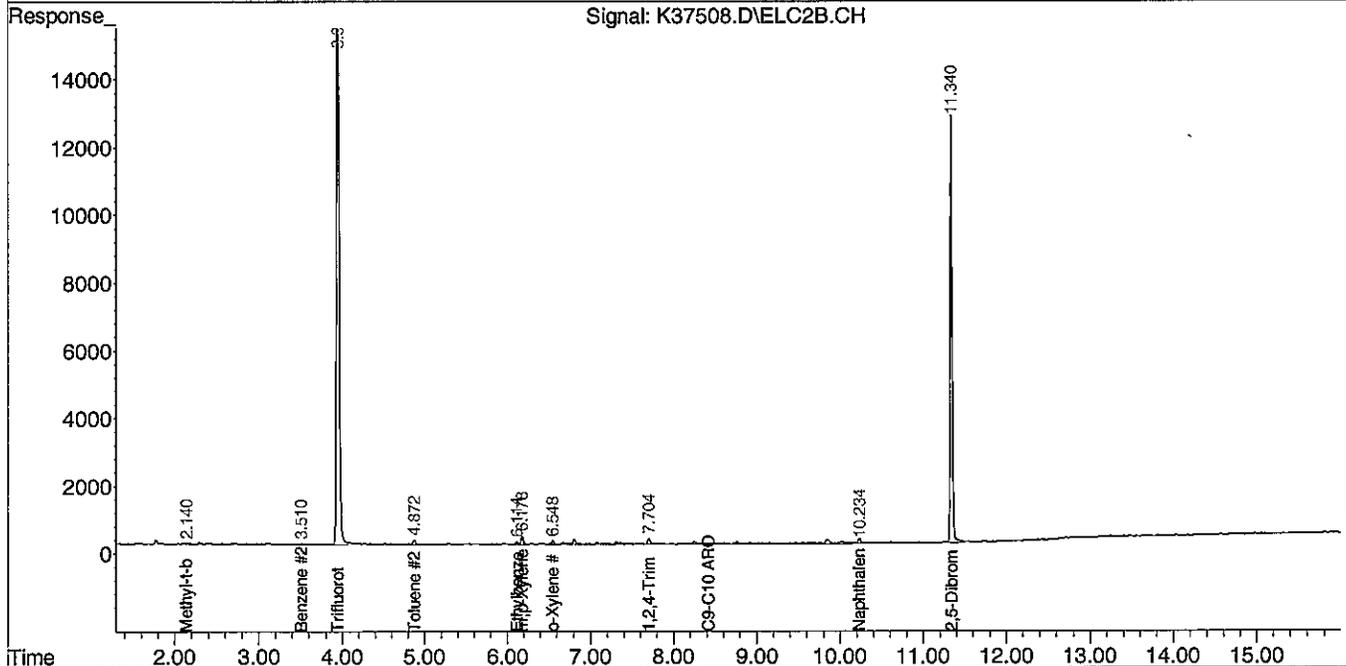
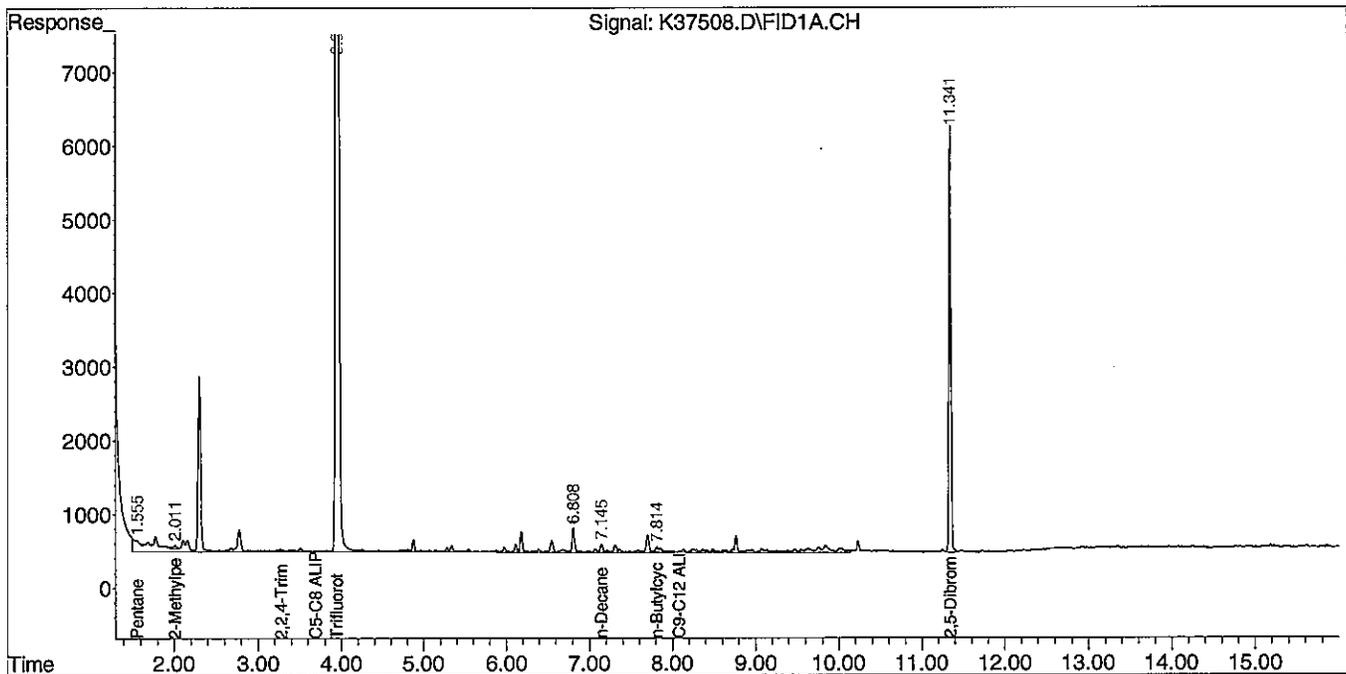
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature 

Data Path : C:\msdchem\1\DATA\080312-K\
 Data File : K37508.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 04 Aug 2012 7:34 am
 Operator : AR
 Sample : 73421-13
 Misc : 5000
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 06 14:27:26 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 :



Mr. Erik Phenix
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400 Commercial Street Suite 404
Portland, ME 04101

August 6, 2012

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: MWX

SAMPLE DATA

Lab Sample ID: 73421-15
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/04/12

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	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 (2,5-Dibromotoluene) PID				111
Surrogate % Recovery (2,5-Dibromotoluene) FID				109
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. of 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.

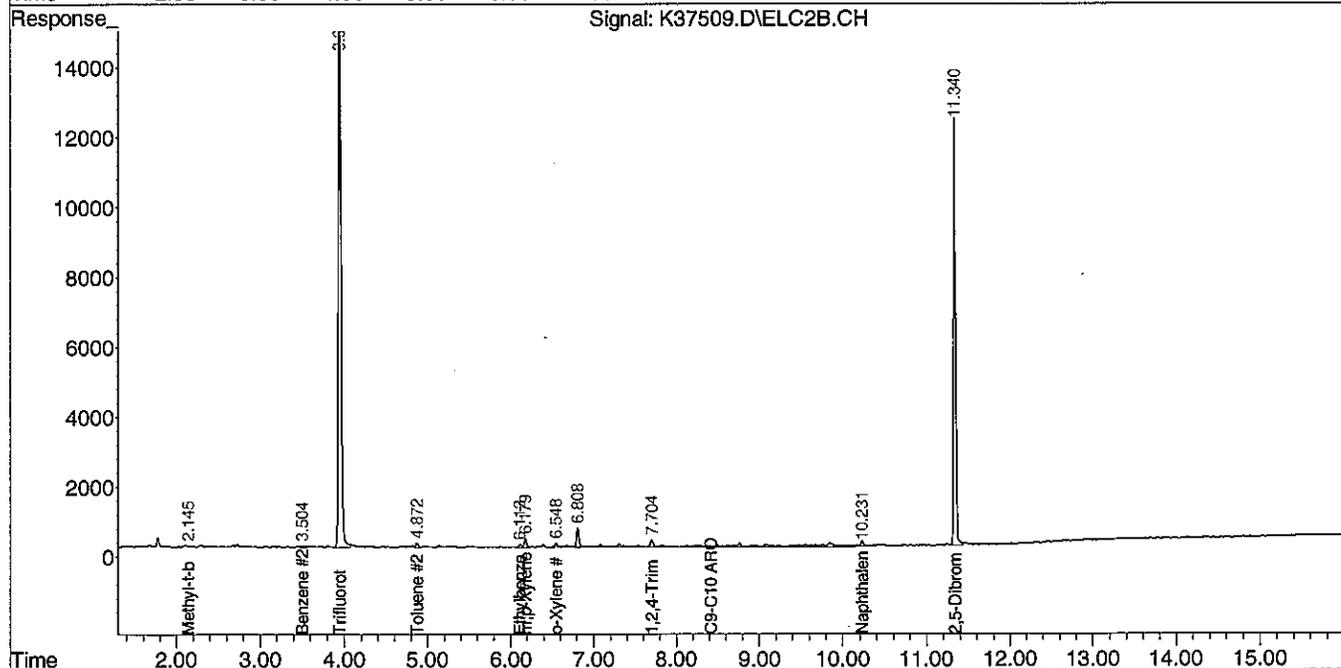
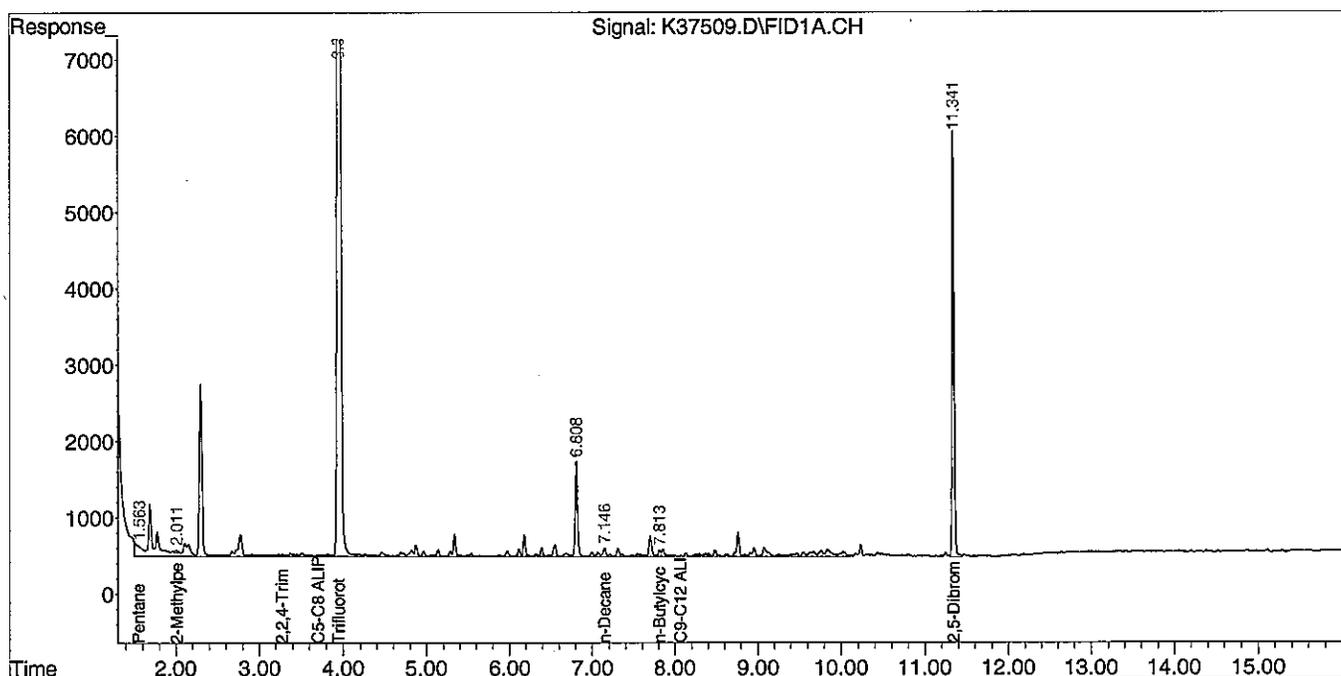
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080312-K\
 Data File : K37509.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 04 Aug 2012 8:01 am
 Operator : AR
 Sample : 73421-15
 Misc : 5000
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 06 14:27:27 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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 Portland, ME 04101

August 6, 2012

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: Septic Tank

SAMPLE DATA
Lab Sample ID: 73421-16
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/04/12

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 (2,5-Dibromotoluene) PID				116
Surrogate % Recovery (2,5-Dibromotoluene) FID				114
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range AND conc. of 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.

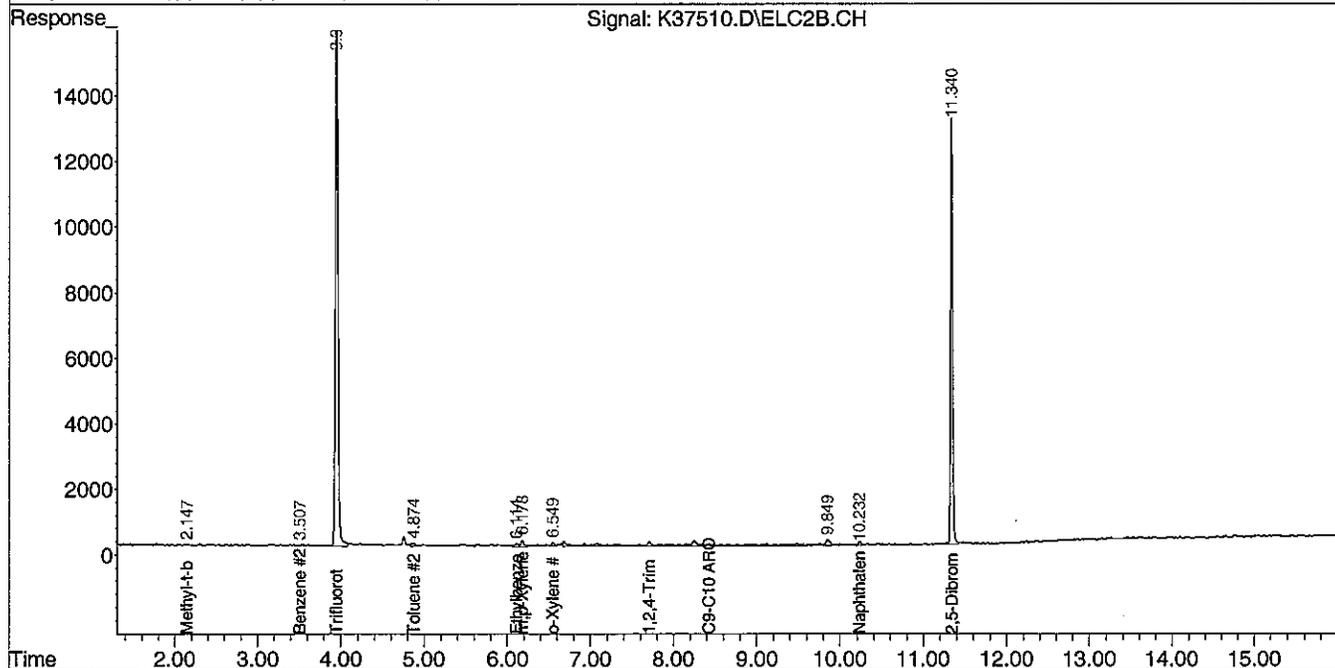
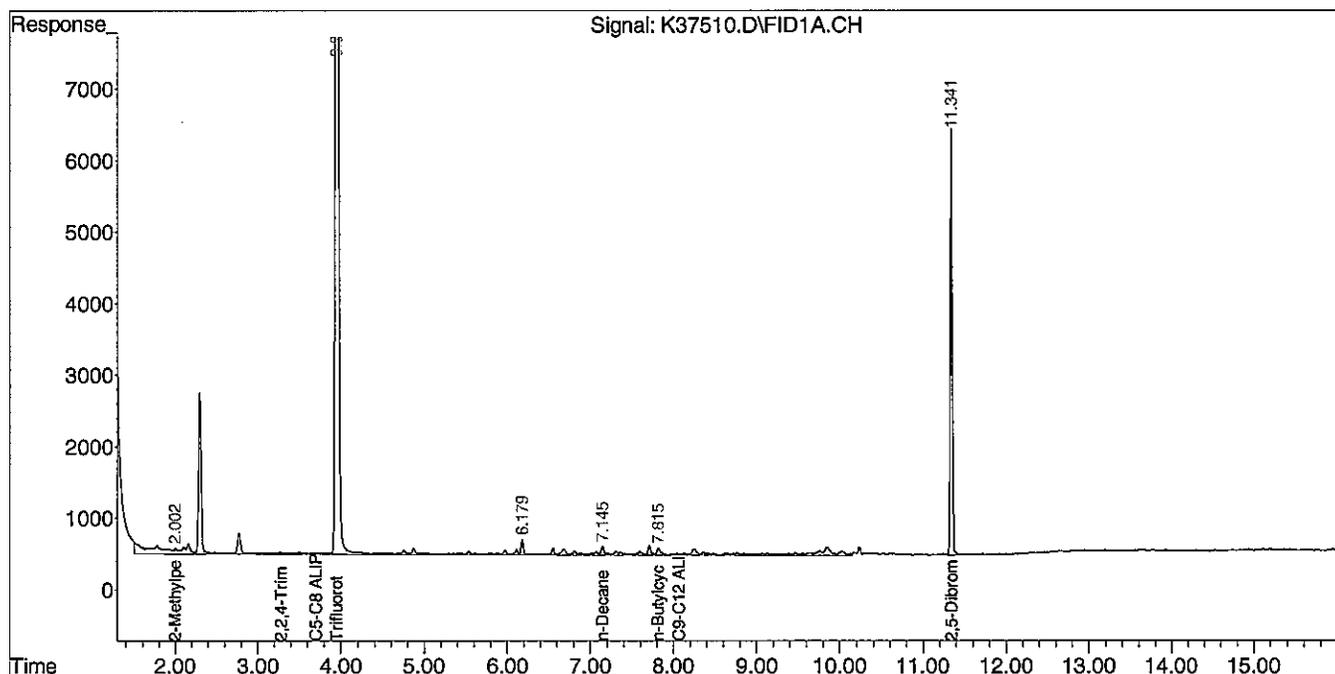
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Sample pH was greater than 2 upon analysis.

Authorized signature: 

Data Path : C:\MSDCHEM\1\DATA\080312-K\
Data File : K37510.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 04 Aug 2012 8:28 am
Operator : AR
Sample : 73421-16
Misc : 5000
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 14:36:43 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 6, 2012

SAMPLE DATA

Lab Sample ID: 73421-18
Matrix: Solid
Percent Solid: 86
Dilution Factor: 65
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Analysis Date: 08/01/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B10X-S1

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3230	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	3230	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3230	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3230	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	646	µg/kg	U
Surrogate % Recovery (Trifluorotoluene) PID				98
Surrogate % Recovery (Trifluorotoluene) FID				98
Surrogate Acceptance Range				70-130%

¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
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. of 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.

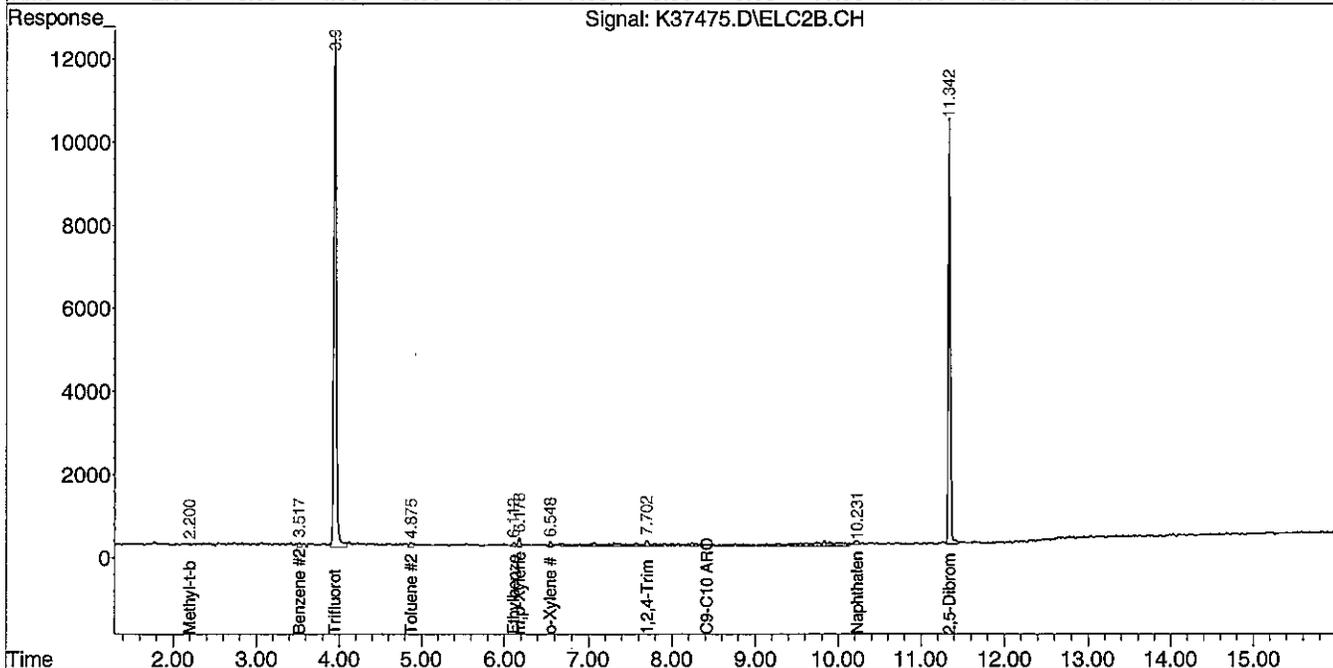
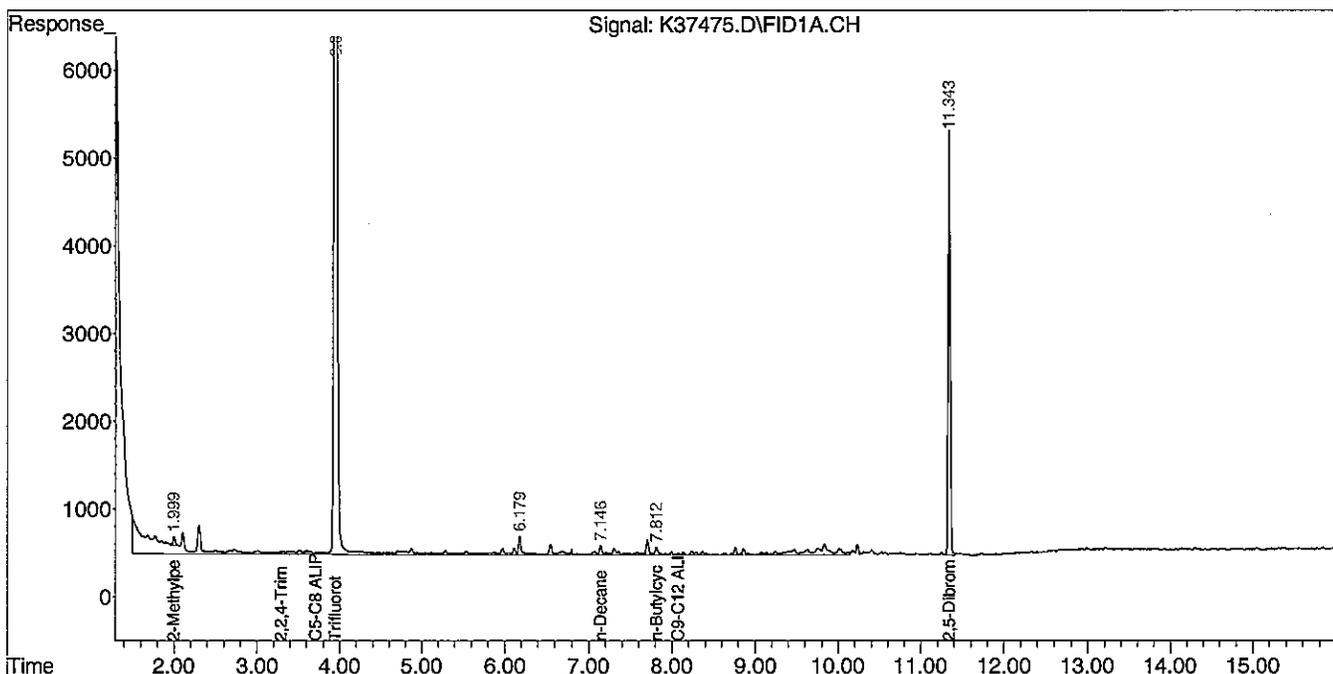
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37475.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 3:48 pm
 Operator : JK
 Sample : 73421-18
 Misc : 100,10.37,SOIL
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 06 15:41:55 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

Mr. Erik Phenix
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400 Commercial Street Suite 404
Portland, ME 04101

August 6, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: LabQC

Lab Sample ID: MBV080112K
Matrix: Soil
Percent Solid: 0
Dilution Factor: 50
Collection Date:
Lab Receipt Date:
Analysis Date: 08/01/12

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
Benzene	C5-C8	100	µg/kg	U
Ethylbenzene	C9-C12	100	µg/kg	U
Methyl-tert-butyl ether	C5-C8	50	µg/kg	U
Naphthalene	N/A	100	µg/kg	U
Toluene	C5-C8	100	µg/kg	U
m- & p-Xylenes	C9-C12	200	µg/kg	U
o-Xylene	C9-C12	100	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				81
Surrogate % Recovery (Trifluorotoluene) FID				82
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
 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.

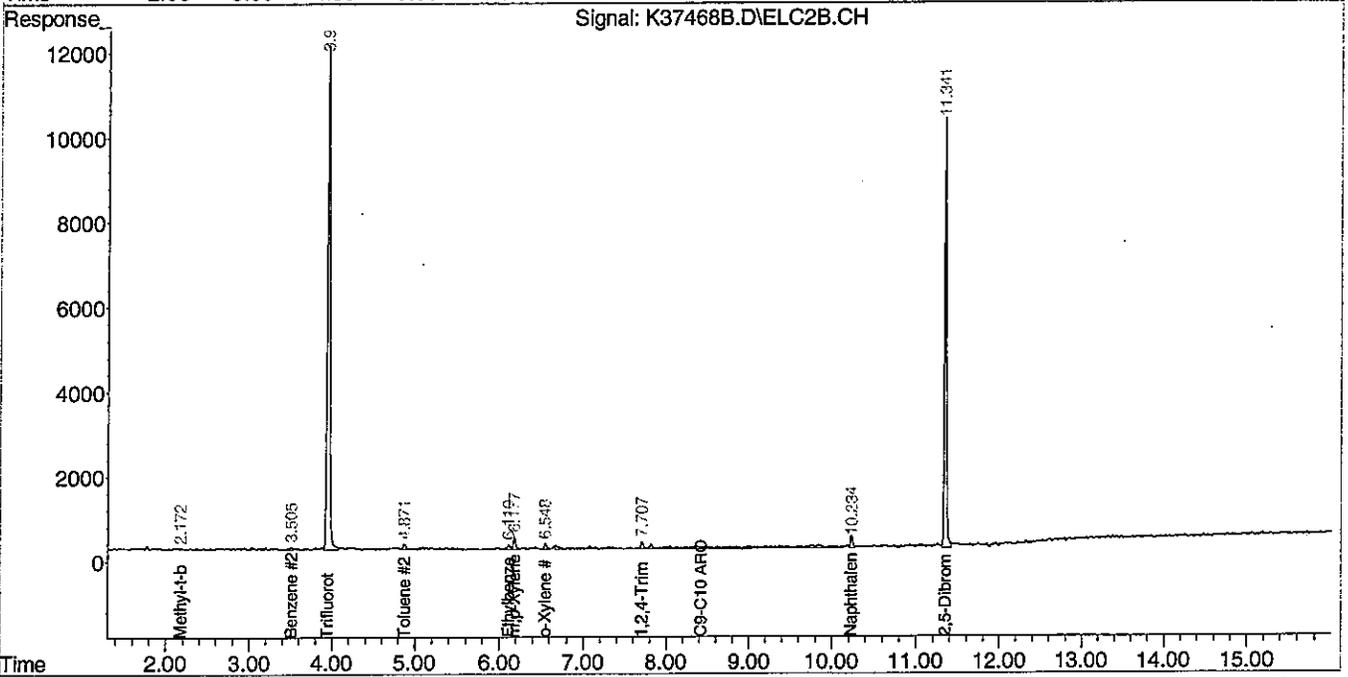
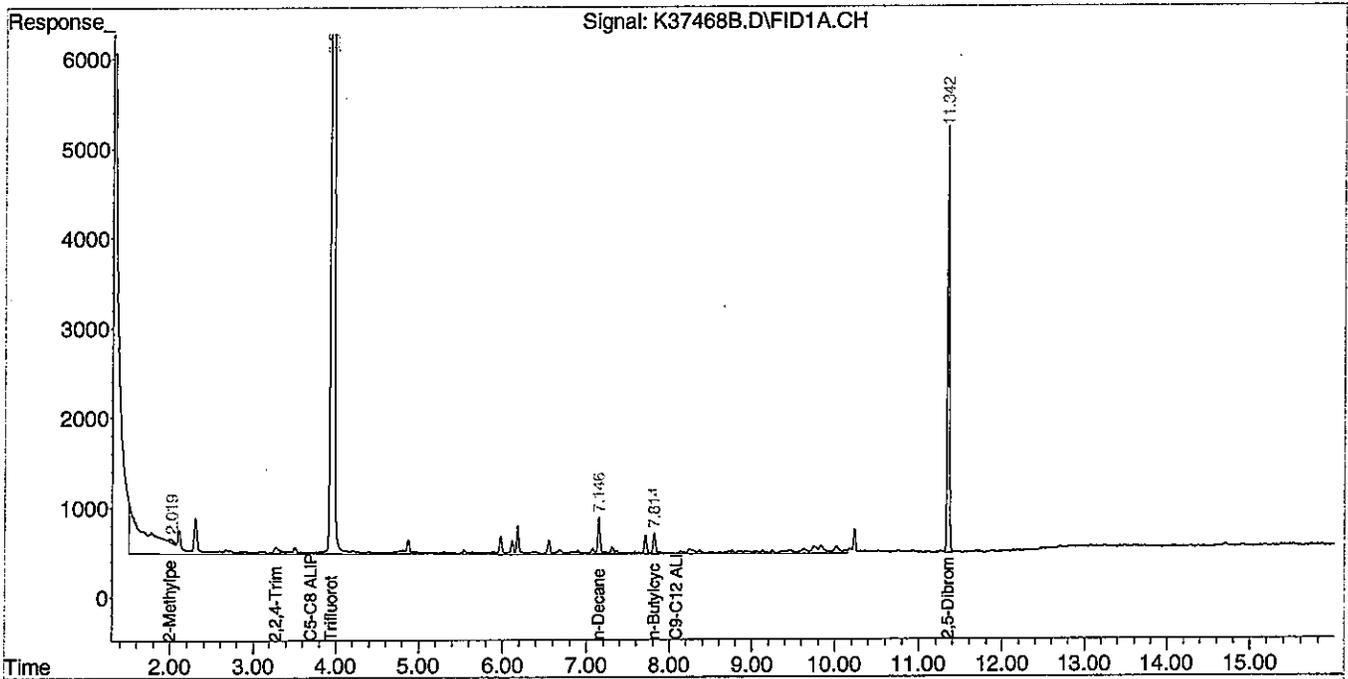
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080112-K\
 Data File : K37468B.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Aug 2012 12:16 pm
 Operator : JK
 Sample : MBV080112K
 Misc : 100,10.00,SOIL
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 01 12:41:25 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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Ransom Consulting, Inc.
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Portland, ME 04101

August 6, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: LabQC

Lab Sample ID: BV080312K
Matrix: Aqueous
Percent Solid: 0
Dilution Factor: 1
Collection Date:
Lab Receipt Date:
Analysis Date: 08/04/12

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics	N/A	50	µg/L	U
Benzene	C5-C8	1	µg/L	U
Ethylbenzene	C9-C12	1	µg/L	U
Methyl-tert-butyl ether	C5-C8	1	µg/L	U
Naphthalene	N/A	1	µg/L	U
Toluene	C5-C8	1	µg/L	U
m- & p-Xylenes	C9-C12	2	µg/L	U
o-Xylene	C9-C12	1	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				117
Surrogate % Recovery (Trifluorotoluene) FID				114
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
 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.

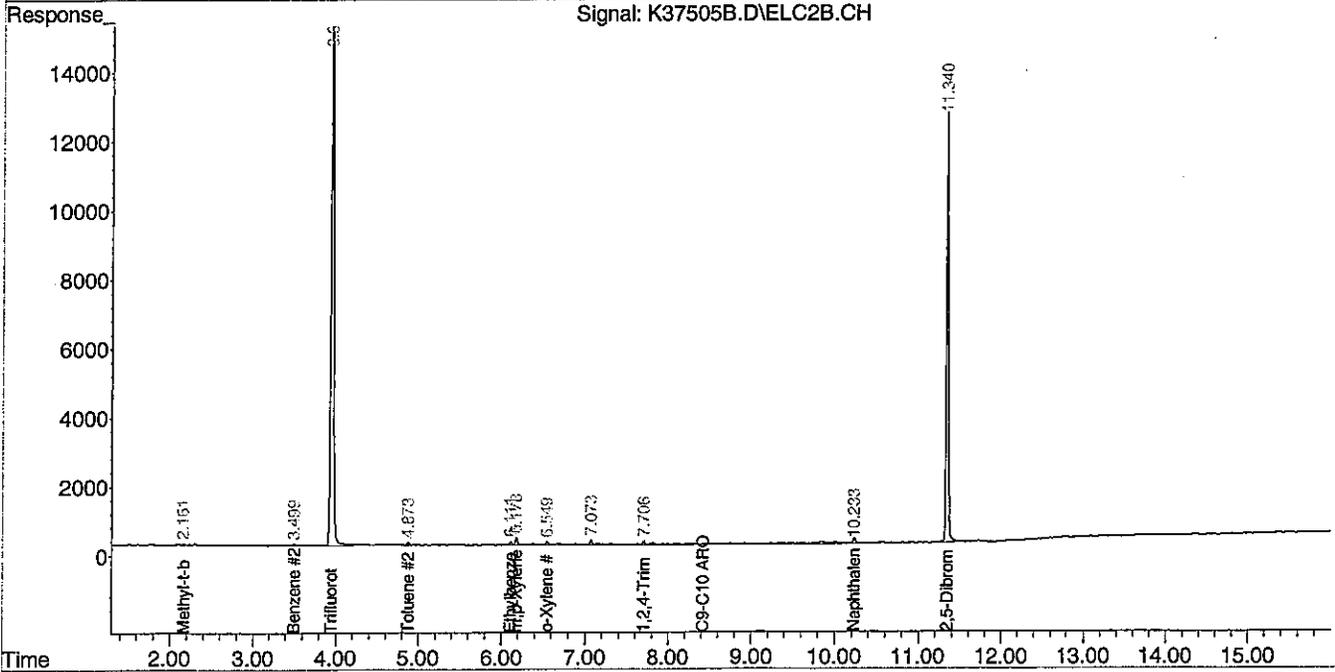
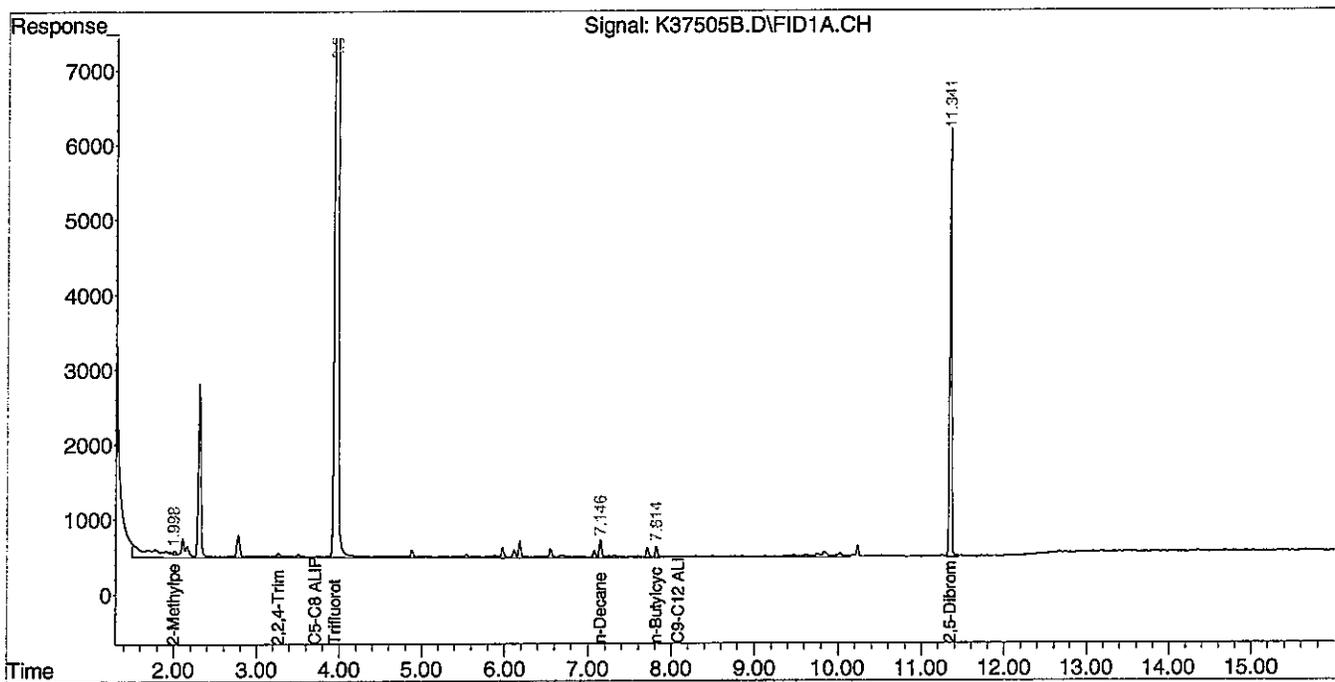
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\080312-K\
 Data File : K37505B.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 04 Aug 2012 5:30 am
 Operator : AR
 Sample : BV080312K
 Misc : 5000
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 04 06:16:41 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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Portland, ME 04101

August 8, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: LabQC

Lab Sample ID: BV080612K4
Matrix: Aqueous
Percent Solid: 0
Dilution Factor: 1.0
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	N/A	50	µg/L	U
Benzene	C5-C8	1	µg/L	U
Ethylbenzene	C9-C12	1	µg/L	U
Methyl-tert-butyl ether	C5-C8	1	µg/L	U
Naphthalene	N/A	1	µg/L	U
Toluene	C5-C8	1	µg/L	U
m- & p-Xylenes	C9-C12	2	µg/L	U
o-Xylene	C9-C12	1	µg/L	U
C5-C8 Aliphatic 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	N/A	10	µg/L	U
Surrogate % Recovery (Trifluorotoluene) PID				115
Surrogate % Recovery (Trifluorotoluene) FID				114
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
 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.

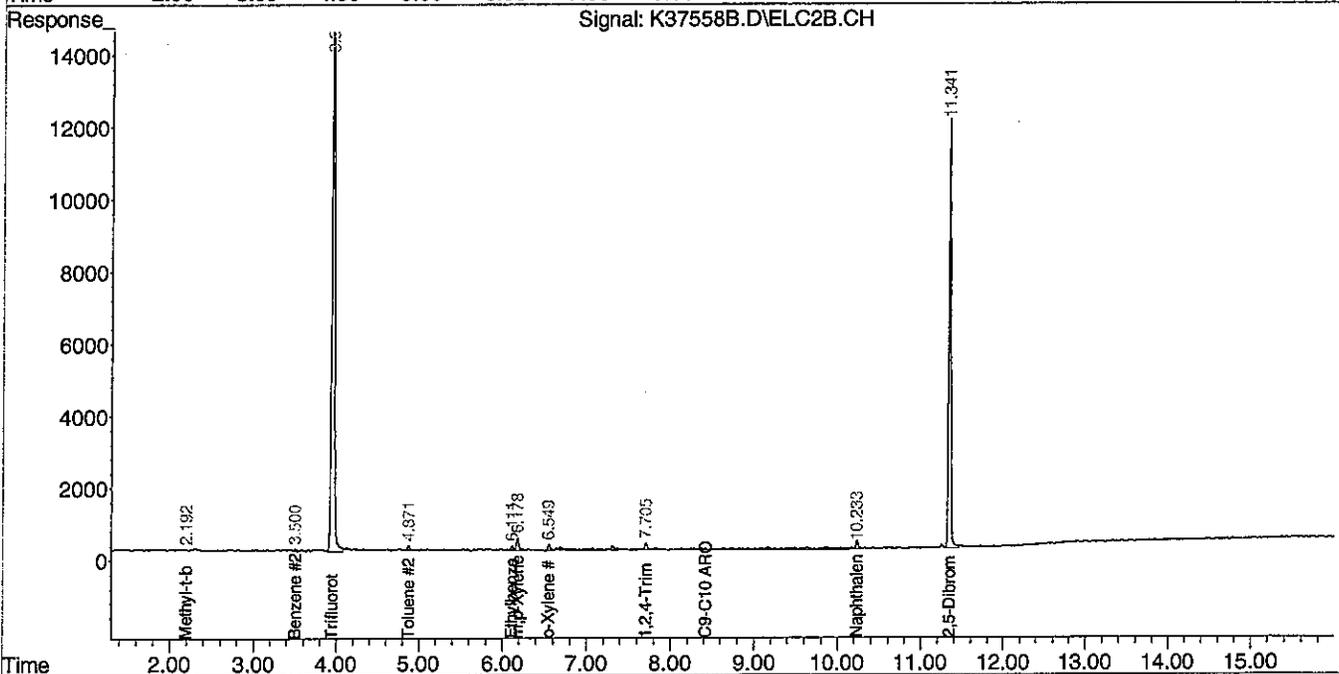
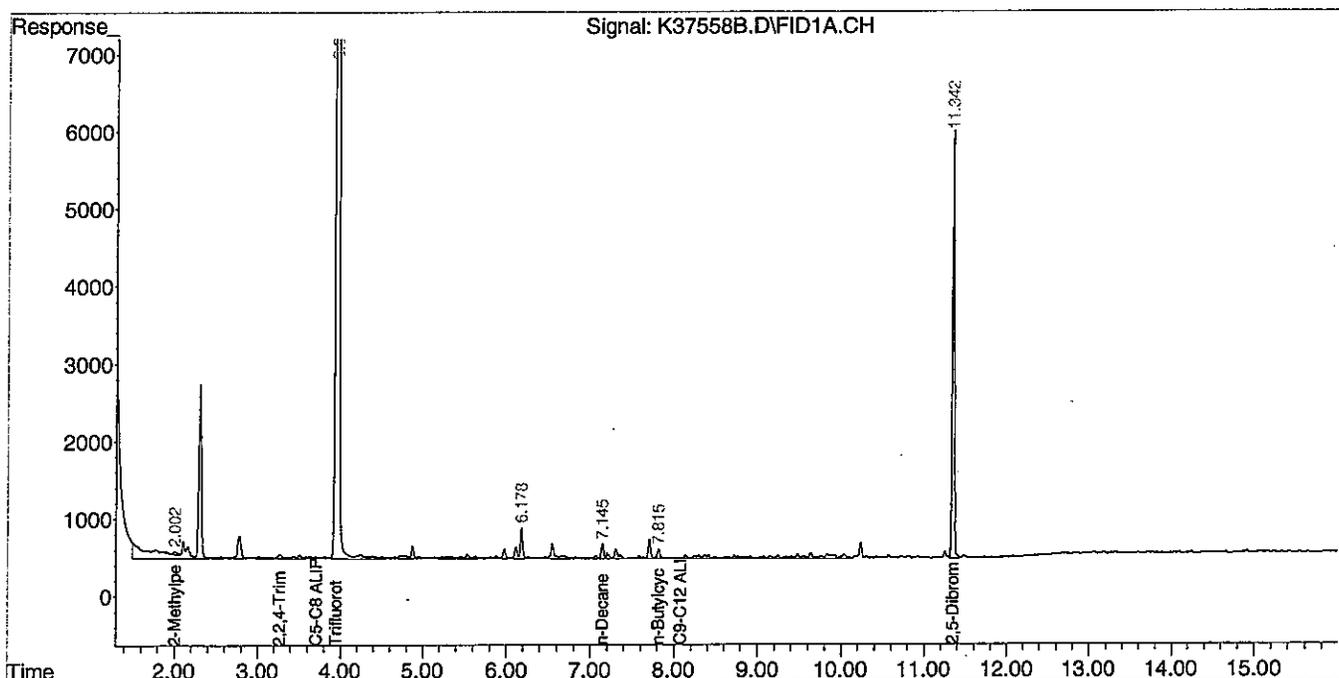
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. Phibbs*

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 :



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: MBV080112K
Spike: LSV080112K
Spike duplicate: LSV080112K2

COMPOUND	LCS SPIKE	LCS D SPIKE	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE		SPIKE DUP		SPIKE DUP		RPD #
	ADDED (ug/kg)	ADDED (ug/kg)					% REC	#	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	
Pentane	5000	5000	70	130	25	0	4112	82		4675	93		13
2-Methylpentane	5000	5000	70	130	25	0	4327	87		4791	96		10
2,2,4-Trimethylpentane	5000	5000	70	130	25	0	4376	88		4544	91		4
n-Decane	5000	5000	70	130	25	0	5069	101		5889	118		15
n-Butylcyclohexane	5000	5000	70	130	25	0	4420	88		4845	97		9
Methyl-t-butylether #2	5000	5000	70	130	25	0	5415	108		5505	110		2
Benzene #2	5000	5000	70	130	25	0	5322	106		5510	110		3
Toluene #2	5000	5000	70	130	25	0	5320	106		5461	109		3
Ethylbenzene #2	5000	5000	70	130	25	0	5260	105		5366	107		2
m,p-Xylene #2	10000	10000	70	130	25	0	10747	107		10941	109		2
o-Xylene #2	5000	5000	70	130	25	0	5344	107		5419	108		1
1,2,4-Trimethylbenzene #2	5000	5000	70	130	25	0	5302	106		5344	107		1
Naphthalene #2	5000	5000	70	130	25	0	5549	111		5650	113		2
C5-C8 Aliphatics	15000	15000	70	130	25	0	12815	85		14010	93		9
C9-C12 Aliphatics	10000	10000	70	130	25	0	9490	95		10734	107		12
C9-C10 Aromatics #2	5000	5000	70	130	25	0	5302	106		5344	107		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 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: 73421
Non-spiked sample: BV080312K
Spike: LV080312K
Spike duplicate: LV080312K2

COMPOUND	SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP	SPIKE DUP	RPD	#
	ADDED	LIMIT	LIMIT	LIMIT	RESULT (ug/L)	RESULT (ug/L)	% REC	#	RESULT (ug/L)		
Pentane	100	70	130	25	0.0	110	110	114	114	4	
2-Methylpentane	100	70	130	25	0.0	106	106	109	109	3	
2,2,4-Trimethylpentane	100	70	130	25	0.0	105	105	108	108	3	
n-Decane	100	70	130	25	0.0	107	107	112	112	5	
n-Butylcyclohexane	100	70	130	25	0.0	87	87	91	91	5	
Methyl-t-butylether #2	100	70	130	25	0.0	105	105	106	106	1	
Benzene #2	100	70	130	25	0.0	105	105	105	105	1	
Toluene #2	100	70	130	25	0.0	104	104	105	105	2	
Ethylbenzene #2	100	70	130	25	0.0	102	102	104	104	1	
m,p-Xylene #2	200	70	130	25	0.0	207	104	211	105	2	
o-Xylene #2	100	70	130	25	0.0	104	104	104	104	0	
1,2,4-Trimethylbenzene #2	100	70	130	25	0.0	103	103	104	104	1	
Naphthalene #2	100	70	130	25	0.0	105	105	103	103	1	
C5-C8 Aliphatics	300	70	130	25	0.0	320	107	331	110	3	
C9-C12 Aliphatics	200	70	130	25	0.0	194	97	204	102	5	
C9-C10 Aromatics #2	100	70	130	25	0.0	103	103	104	104	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 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: _____

EPH
DATA SUMMARIES

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 6, 2012

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B105-S1

SAMPLE DATA
Lab Sample ID: 73421-3
Matrix: Solid
Percent Solid: 90
Dilution Factor: 1.1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/30/12
Analysis Date: 08/01/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	14100	µg/kg	108000 J
Diesel PAH Analytes	Naphthalene	282	µg/kg U
	2-Methylnaphthalene	282	µg/kg U
	Phenanthrene	282	µg/kg U
	Acenaphthene	282	µg/kg U
Other Target PAH Analytes	Acenaphthylene	282	µg/kg U
	Fluorene	282	µg/kg U
	Anthracene	282	µg/kg U
	Fluoranthene	282	µg/kg U
	Pyrene	282	µg/kg U
	Benzo[a]anthracene	282	µg/kg U
	Chrysene	282	µg/kg U
	Benzo[b]fluoranthene	282	µg/kg U
	Benzo[k]fluoranthene	282	µg/kg U
	Benzo[a]pyrene	282	µg/kg U
	Indeno[1,2,3-cd]pyrene	282	µg/kg U
	Dibenzof[a,h]anthracene	282	µg/kg U
	Benzo[ghi]perylene	282	µg/kg U
C9-C18 Aliphatic Hydrocarbons ¹	14100	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	14100	µg/kg	8440 J
C11-C22 Aromatic Hydrocarbons ^{1,2}	14100	µg/kg	10800 J
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			47
Aromatic Surrogate % Recovery (O-Terphenyl)			58
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			62
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			58
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

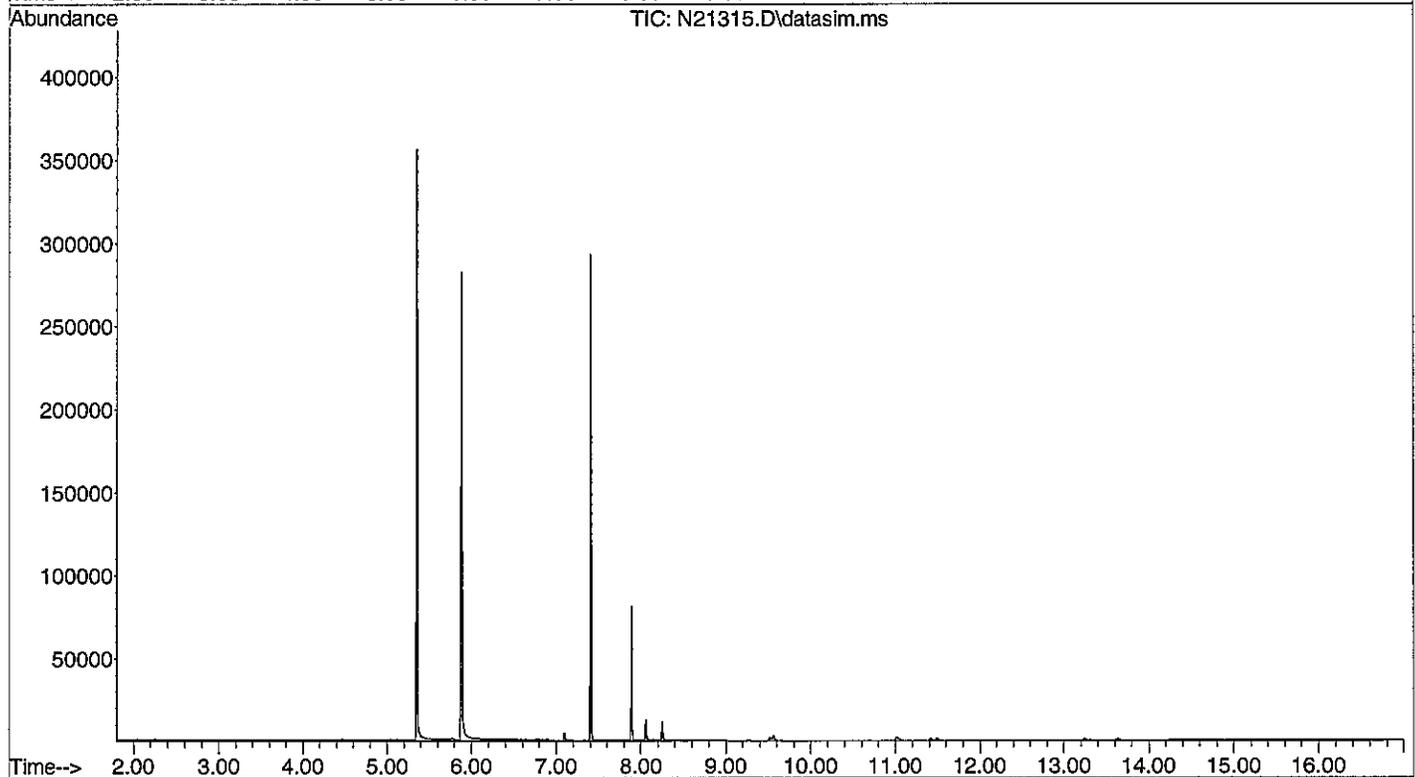
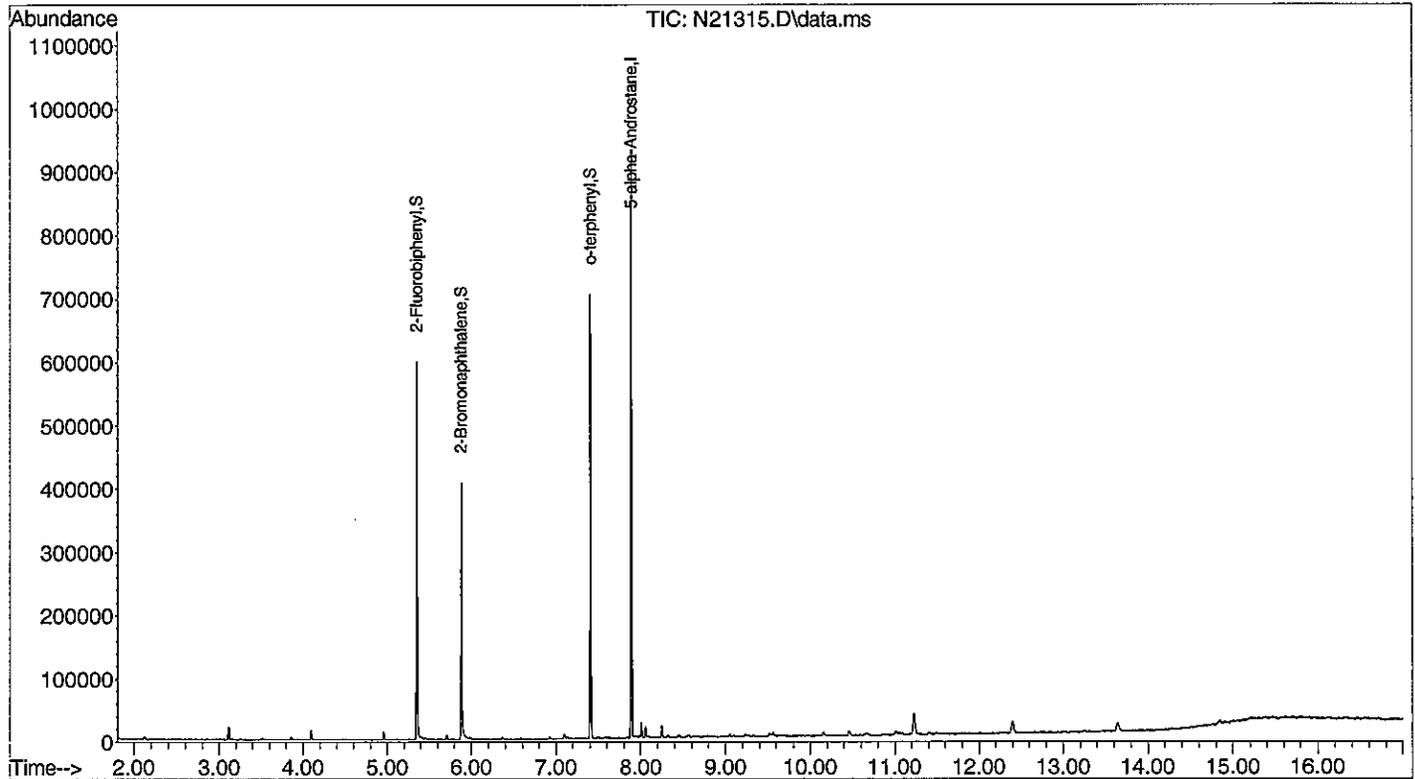
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

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\080112-N\
 Data File : N21315.D
 Acq On : 1 Aug 2012 10:48 pm
 Operator : AR
 Sample : 73421-3
 Misc : SOIL, ARO
 ALS Vial : 9 Sample Multiplier: 1

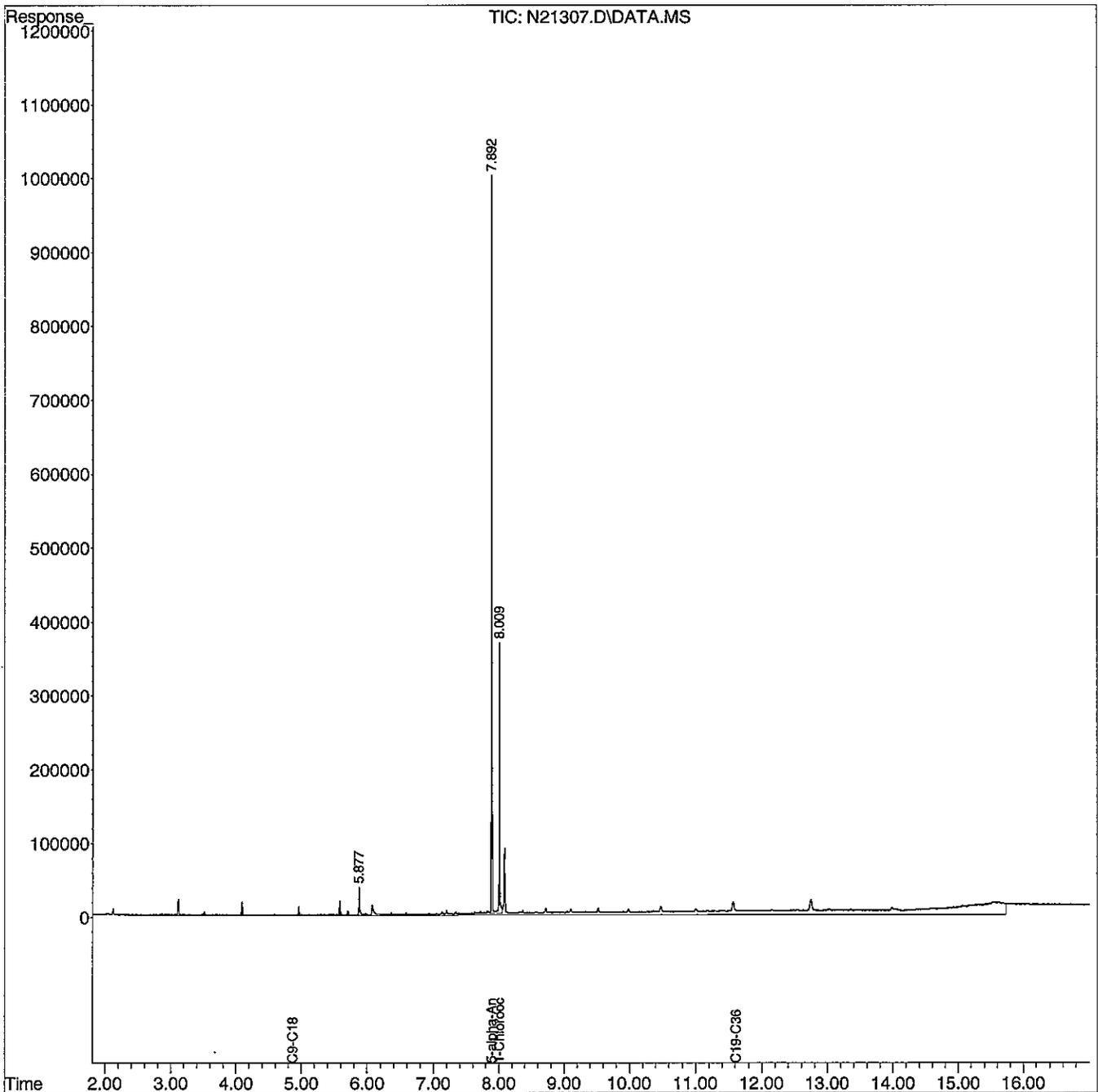
Quant Time: Aug 02 14:57:30 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:14 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080112-N\
Data File : N21307.D
Signal(s) : DATA.MS
Acq On : 1 Aug 2012 7:55 pm
Operator : AR
Sample : 73421-3
Misc : SOIL,ALI
ALS Vial : 18 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 02 14:38:19 2012
Quant Method : C:\msdchem\1\METHODS\ALG060812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Thu Jul 26 23:58:14 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



August 6, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

SAMPLE DATA

Lab Sample ID: 73421-4
Matrix: Solid
Percent Solid: 90
Dilution Factor: 1.1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/30/12
Analysis Date: 08/01/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B106-S6

EPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	14300	µg/kg	U
Diesel PAH Analytes	Naphthalene	287	µg/kg
	2-Methylnaphthalene	287	µg/kg
	Phenanthrene	287	µg/kg
	Acenaphthene	287	µg/kg
Other Target PAH Analytes	Acenaphthylene	287	µg/kg
	Fluorene	287	µg/kg
	Anthracene	287	µg/kg
	Fluoranthene	287	µg/kg
	Pyrene	287	µg/kg
	Benzo[a]anthracene	287	µg/kg
	Chrysene	287	µg/kg
	Benzo[b]fluoranthene	287	µg/kg
	Benzo[k]fluoranthene	287	µg/kg
	Benzo[a]pyrene	287	µg/kg
	Indeno[1,2,3-cd]pyrene	287	µg/kg
	Dibenzof[a,h]anthracene	287	µg/kg
Benzo[g,h,i]perylene	287	µg/kg	
C9-C18 Aliphatic Hydrocarbons	14300	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	14300	µg/kg	U
C11-C22 Aromatic Hydrocarbons ^{1,2}	14300	µg/kg	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			46
Aromatic Surrogate % Recovery (O-Terphenyl)			57
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			67
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			63
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

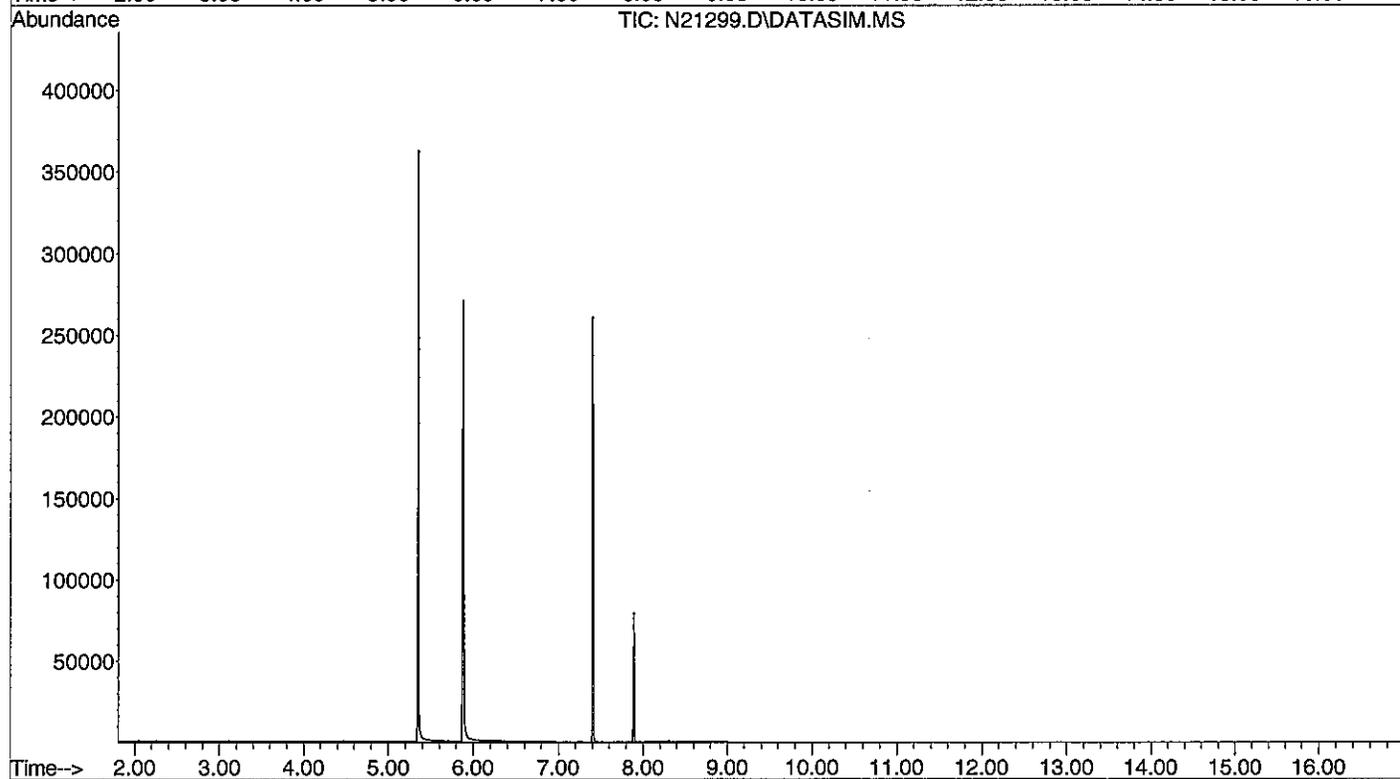
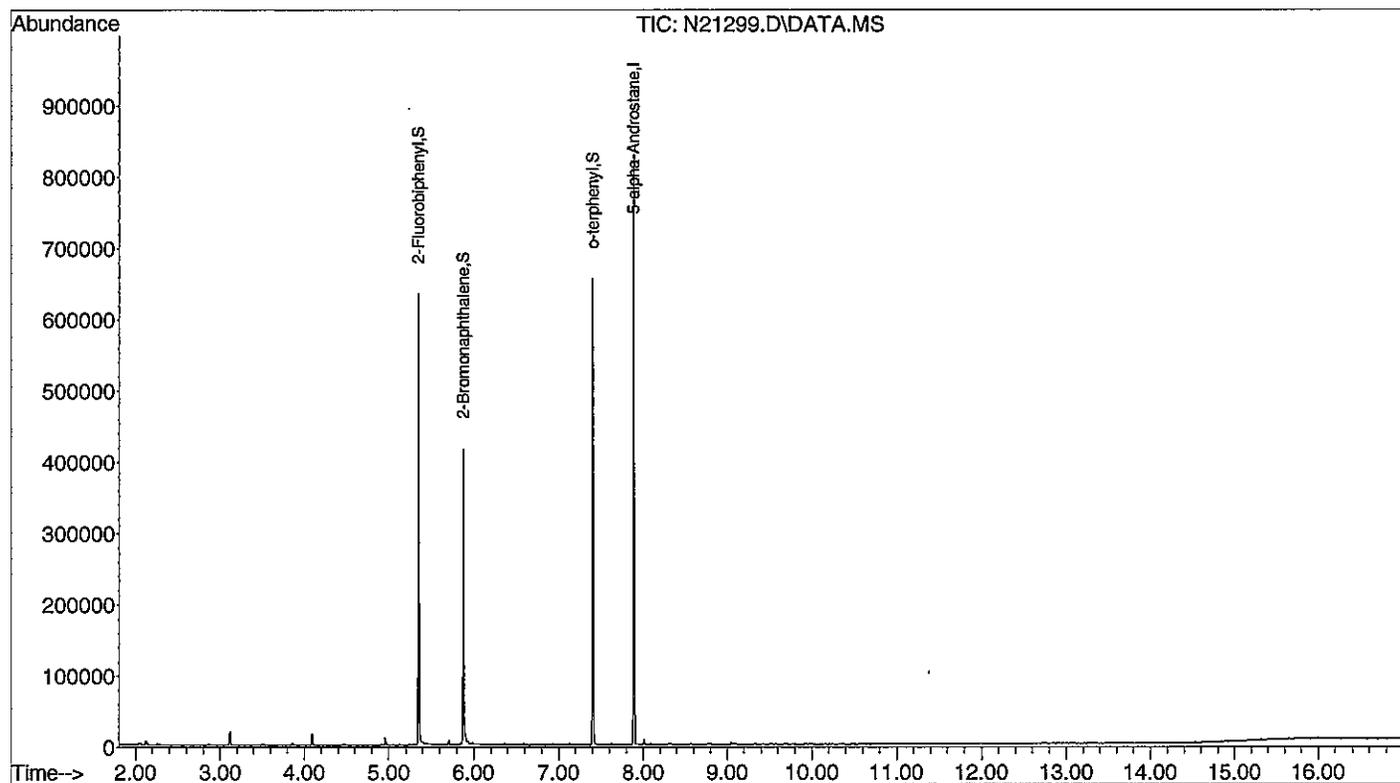
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision I.1. Samples were extracted in accordance with SW-846 Method 3545

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\080112-N\
 Data File : N21299.D
 Acq On : 1 Aug 2012 5:09 pm
 Operator : AR
 Sample : 73421-4
 Misc : SOIL, ARO
 ALS Vial : 10 Sample Multiplier: 1

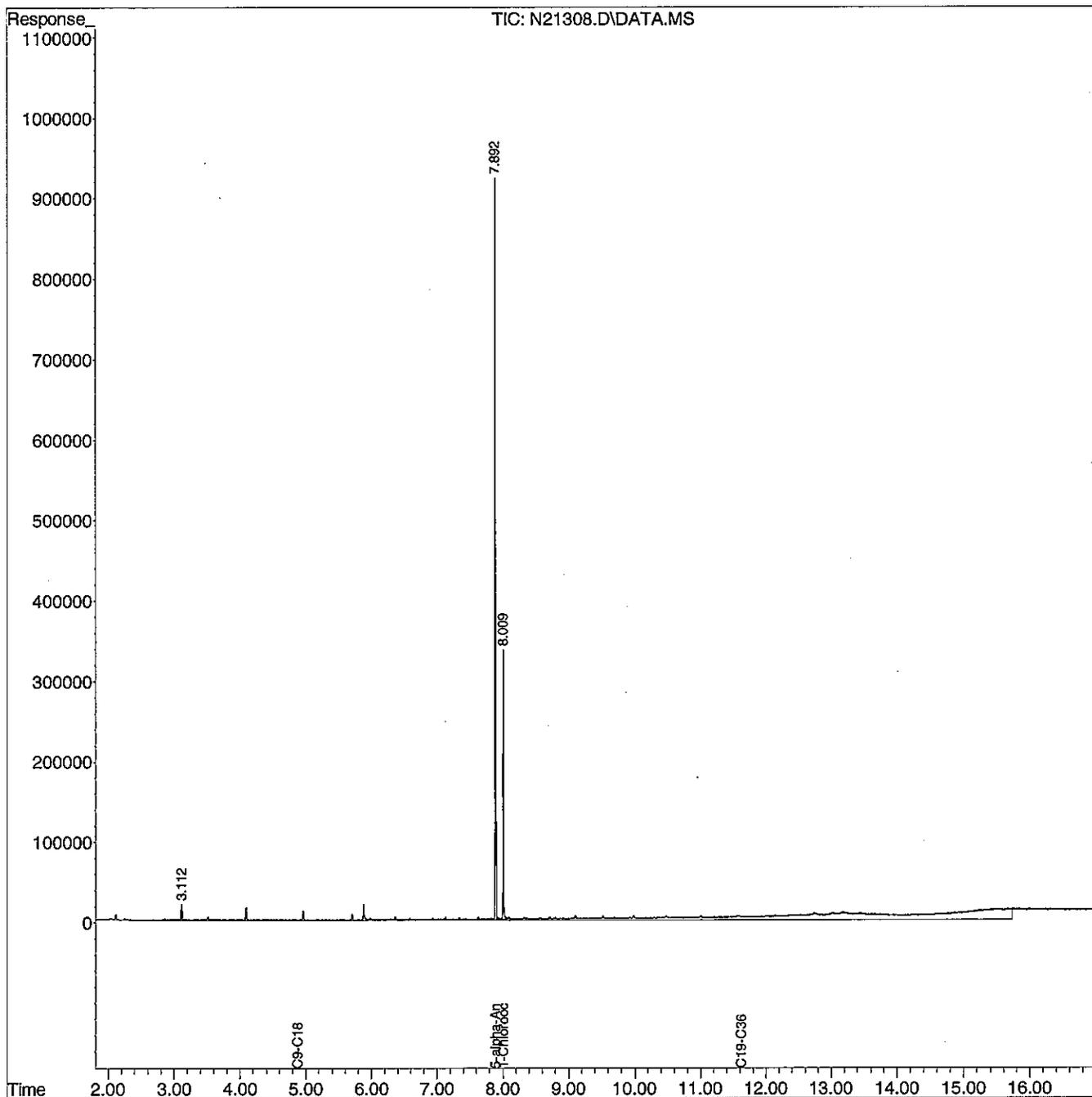
Quant Time: Aug 02 14:51:19 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:14 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080112-N\
Data File : N21308.D
Signal(s) : DATA.MS
Acq On : 1 Aug 2012 8:16 pm
Operator : AR
Sample : 73421-4
Misc : SOIL,ALI
ALS Vial : 19 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 02 14:38:42 2012
Quant Method : C:\msdchem\1\METHODS\ALG060812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Thu Jul 26 23:58:14 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



August 7, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B107-S1

SAMPLE DATA

Lab Sample ID: 73421-5
Matrix: Solid
Percent Solid: 92
Dilution Factor: 11
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/30/12
Analysis Date: 08/01/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	141000	µg/kg	980000
Diesel PAH Analytes	Naphthalene	2820 µg/kg	U
	2-Methylnaphthalene	2820 µg/kg	1720 J
	Phenanthrene	2820 µg/kg	2150 J
	Acenaphthene	2820 µg/kg	U
Other Target PAH Analytes	Acenaphthylene	2820 µg/kg	U
	Fluorene	2820 µg/kg	U
	Anthracene	2820 µg/kg	U
	Fluoranthene	2820 µg/kg	4050
	Pyrene	2820 µg/kg	4350
	Benzo[a]anthracene	2820 µg/kg	2520 J
	Chrysene	2820 µg/kg	2870
	Benzo[b]fluoranthene	2820 µg/kg	3800
	Benzo[k]fluoranthene	2820 µg/kg	1420 J
	Benzo[a]pyrene	2820 µg/kg	2660 J
	Indeno[1,2,3-cd]pyrene	2820 µg/kg	2440 J
	Dibenzo[a,h]anthracene	2820 µg/kg	U
	Benzo[e,h,i]perylene	2820 µg/kg	2630 J
C9-C18 Aliphatic Hydrocarbons ¹	2820000	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	2820000	µg/kg	1570000
C11-C22 Aromatic Hydrocarbons ^{1,2}	141000	µg/kg	949000
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			*
Aromatic Surrogate % Recovery (O-Terphenyl)			54
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			69
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			59
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

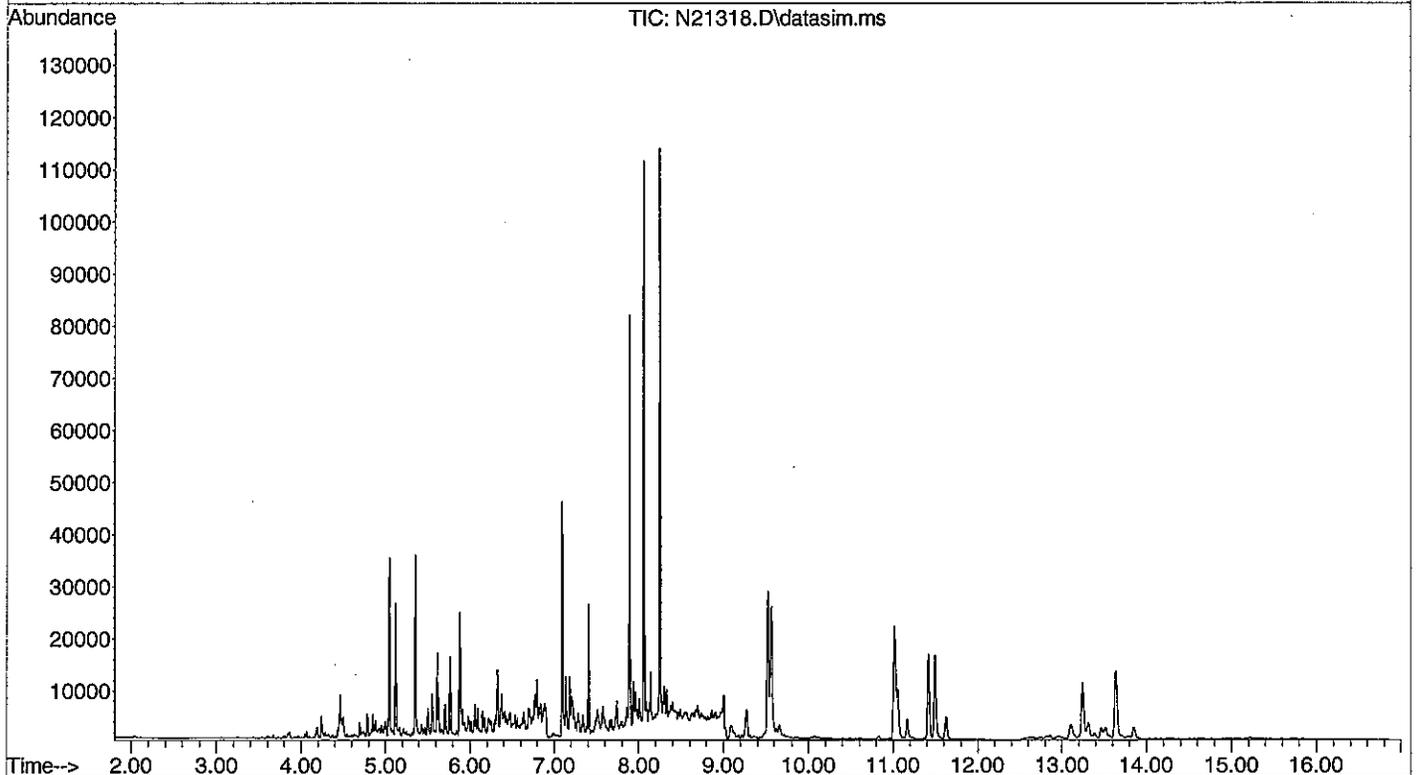
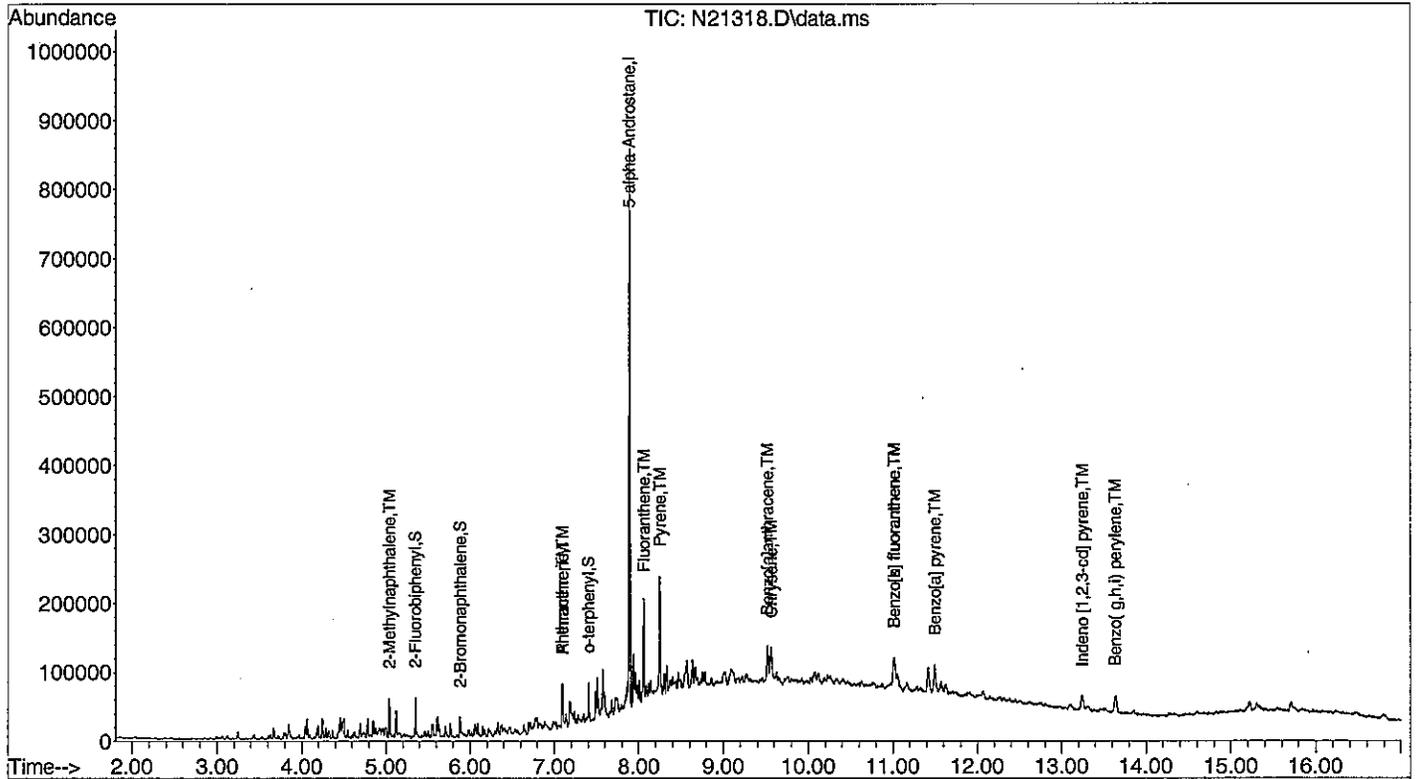
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

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.
* The surrogate was diluted out.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080112-N\
 Data File : N21318.D
 Acq On : 1 Aug 2012 11:54 pm
 Operator : AR
 Sample : 73421-5,,10X
 Misc : SOIL,ARO
 ALS Vial : 25 Sample Multiplier: 1

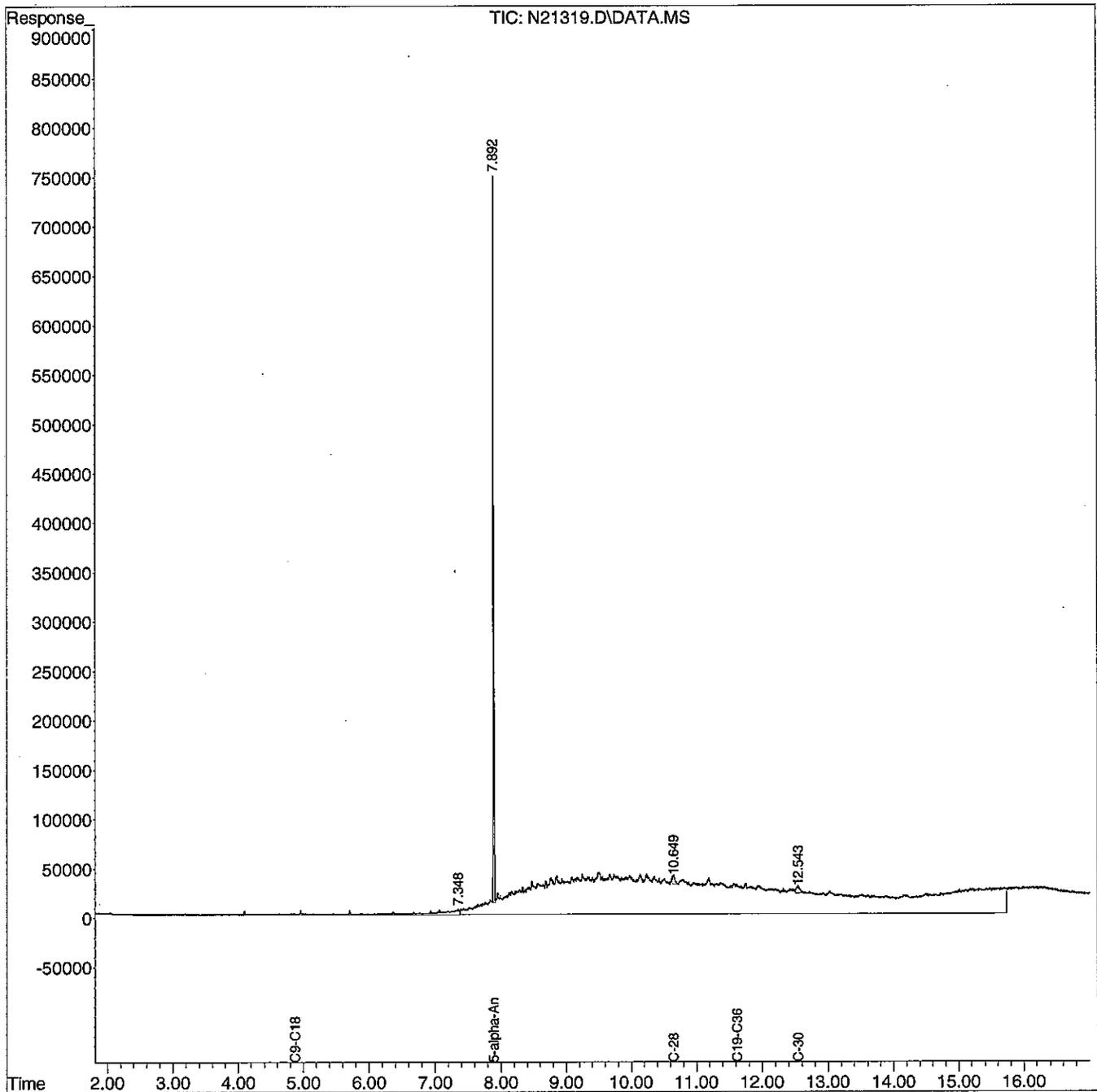
Quant Time: Aug 02 14:57:53 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:14 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080112-N\
Data File : N21319.D
Signal(s) : DATA.MS
Acq On : 2 Aug 2012 12:15 am
Operator : AR
Sample : 73421-5,,200X
Misc : SOIL,ALI
ALS Vial : 26 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 02 14:41:34 2012
Quant Method : C:\msdchem\1\METHODS\ALG060812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Thu Jul 26 23:58:14 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



August 6, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast

Project Number: 111.06134

Client Sample ID: B108-S1

SAMPLE DATA

Lab Sample ID: 73421-6
Matrix: Solid
Percent Solid: 96
Dilution Factor: 1.0
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/30/12
Analysis Date: 08/01/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	13600	µg/kg	U
Diesel PAH Analytes	Naphthalene	272	µg/kg
	2-Methylnaphthalene	272	µg/kg
	Phenanthrene	272	µg/kg
	Acenaphthene	272	µg/kg
Other Target PAH Analytes	Acenaphthylene	272	µg/kg
	Fluorene	272	µg/kg
	Anthracene	272	µg/kg
	Fluoranthene	272	µg/kg
	Pyrene	272	µg/kg
	Benzo[a]anthracene	272	µg/kg
	Chrysene	272	µg/kg
	Benzo[b]fluoranthene	272	µg/kg
	Benzo[k]fluoranthene	272	µg/kg
	Benzo[a]pyrene	272	µg/kg
	Indeno[1,2,3-cd]pyrene	272	µg/kg
	Dibenzo[a,h]anthracene	272	µg/kg
	Benzo[g,h,i]perylene	272	µg/kg
	C9-C18 Aliphatic Hydrocarbons ¹	13600	µg/kg
C19-C36 Aliphatic Hydrocarbons ¹	13600	µg/kg	9030 J
C11-C22 Aromatic Hydrocarbons ^{1,2}	13600	µg/kg	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			50
Aromatic Surrogate % Recovery (O-Terphenyl)			60
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			68
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			62
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			

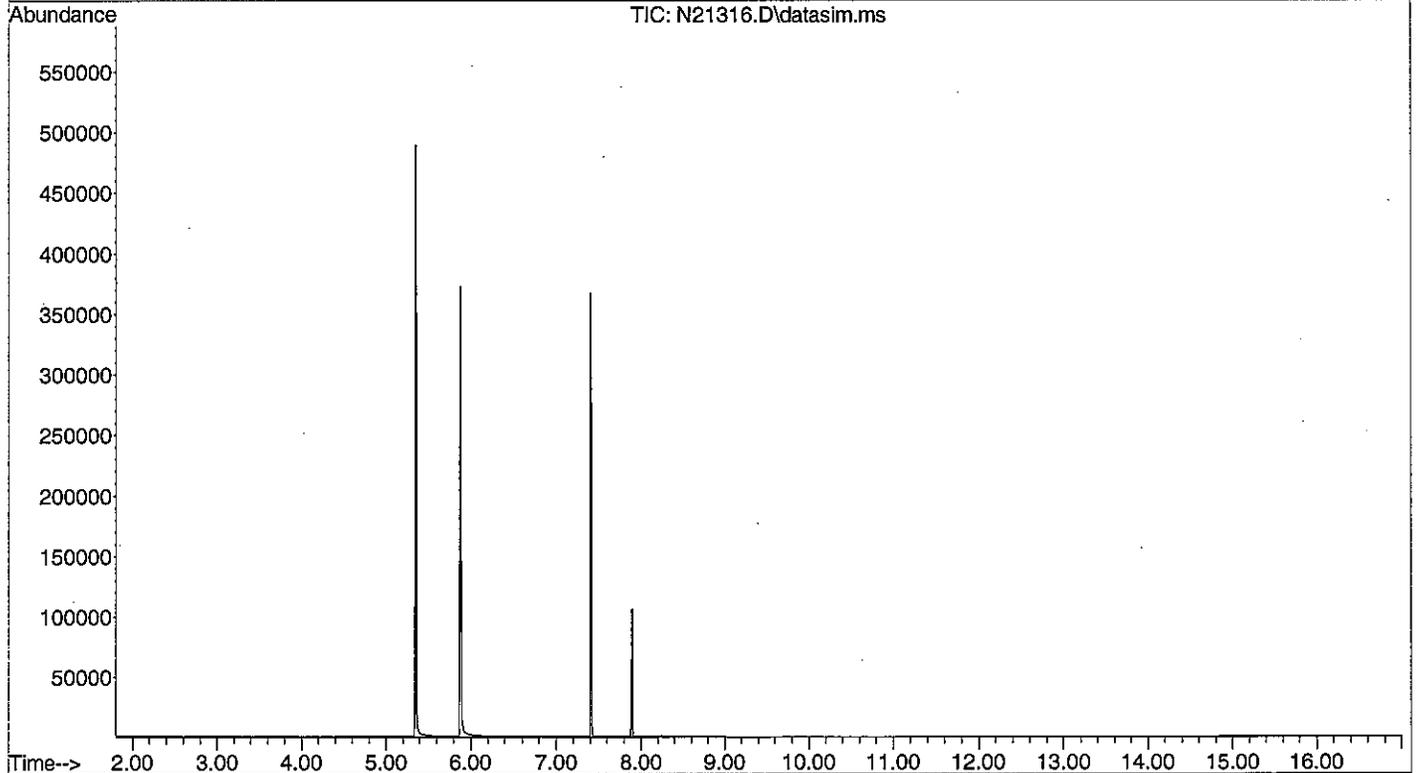
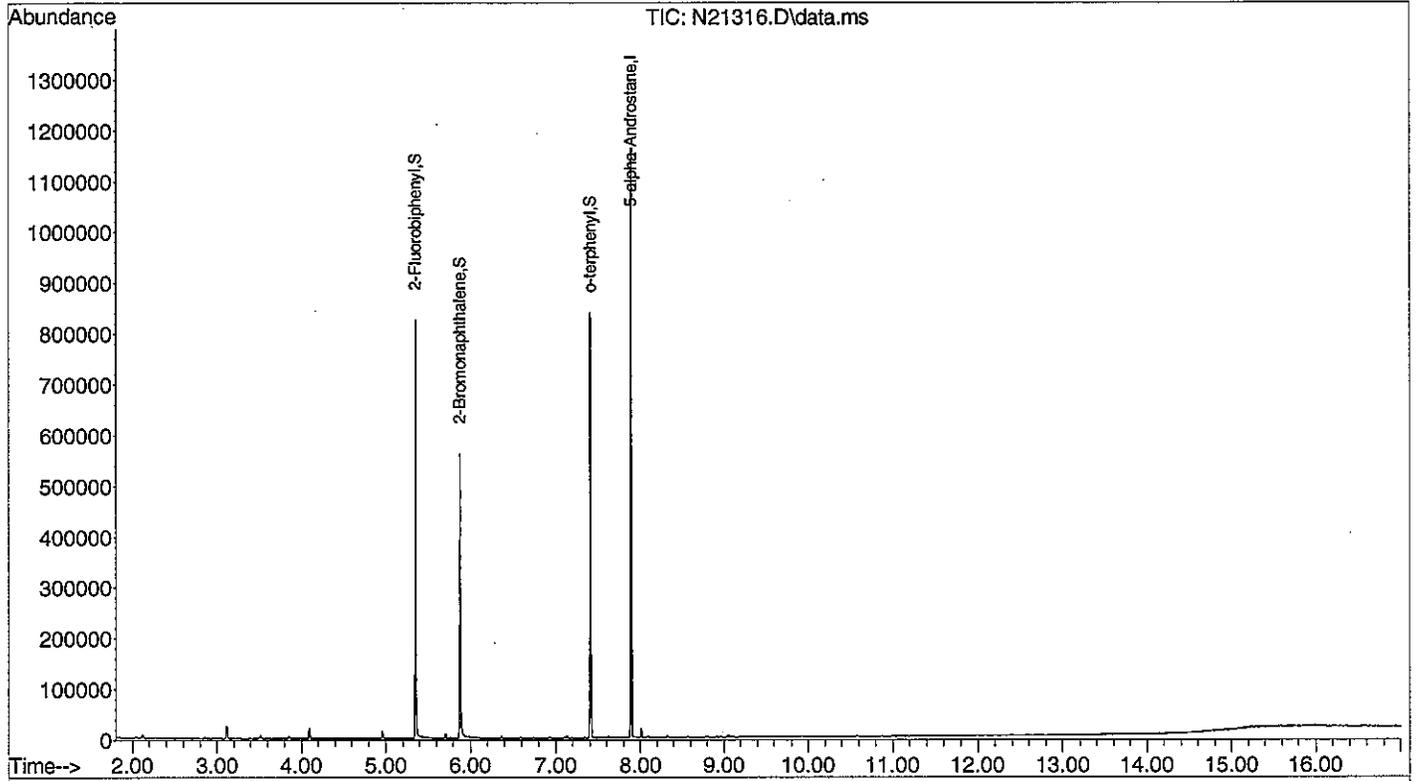
METHODOLOGY MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004 Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

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\080112-N\
Data File : N21316.D
Acq On : 1 Aug 2012 11:08 pm
Operator : AR
Sample : 73421-6
Misc : SOIL,ARO
ALS Vial : 12 Sample Multiplier: 1

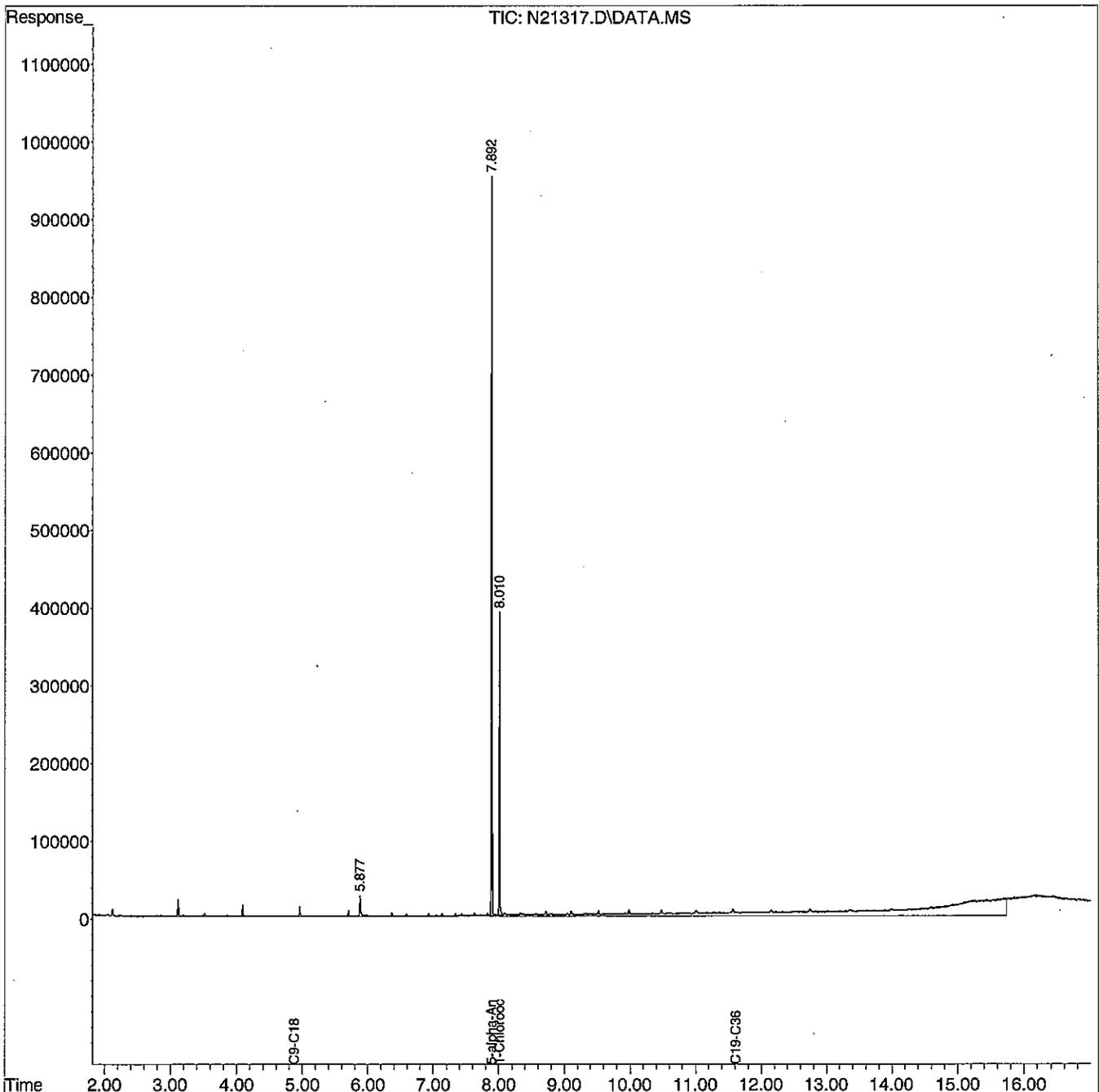
Quant Time: Aug 02 14:57:39 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:14 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080112-N\
Data File : N21317.D
Signal(s) : DATA.MS
Acq On : 1 Aug 2012 11:29 pm
Operator : AR
Sample : 73421-6
Misc : SOIL,ALI
ALS Vial : 21 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 02 14:40:58 2012
Quant Method : C:\msdchem\1\METHODS\ALG060812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Thu Jul 26 23:58:14 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



August 6, 2012

Mr. Erik Phenix
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400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B110-S1

SAMPLE DATA

Lab Sample ID: 73421-7
Matrix: Solid
Percent Solid: 80
Dilution Factor: 1.2
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/30/12
Analysis Date: 08/01/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	16000	µg/kg	11100 J
Diesel PAH Analytes	Naphthalene	321	µg/kg U
	2-Methylnaphthalene	321	µg/kg U
	Phenanthrene	321	µg/kg U
	Acenaphthene	321	µg/kg U
Other Target PAH Analytes	Acenaphthylene	321	µg/kg U
	Fluorene	321	µg/kg U
	Anthracene	321	µg/kg U
	Fluoranthene	321	µg/kg U
	Pyrene	321	µg/kg U
	Benzo[a]anthracene	321	µg/kg U
	Chrysene	321	µg/kg U
	Benzo[b]fluoranthene	321	µg/kg U
	Benzo[k]fluoranthene	321	µg/kg U
	Benzo[a]pyrene	321	µg/kg U
	Indeno[1,2,3-cd]pyrene	321	µg/kg U
	Dibenzo[a,h]anthracene	321	µg/kg U
Benzo[g,h,i]perylene	321	µg/kg U	
C9-C18 Aliphatic Hydrocarbons ¹	16000	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	16000	µg/kg	38600
C11-C22 Aromatic Hydrocarbons ^{1,2}	16000	µg/kg	11100 J
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			47
Aromatic Surrogate % Recovery (O-Terphenyl)			59
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			71
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			64
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

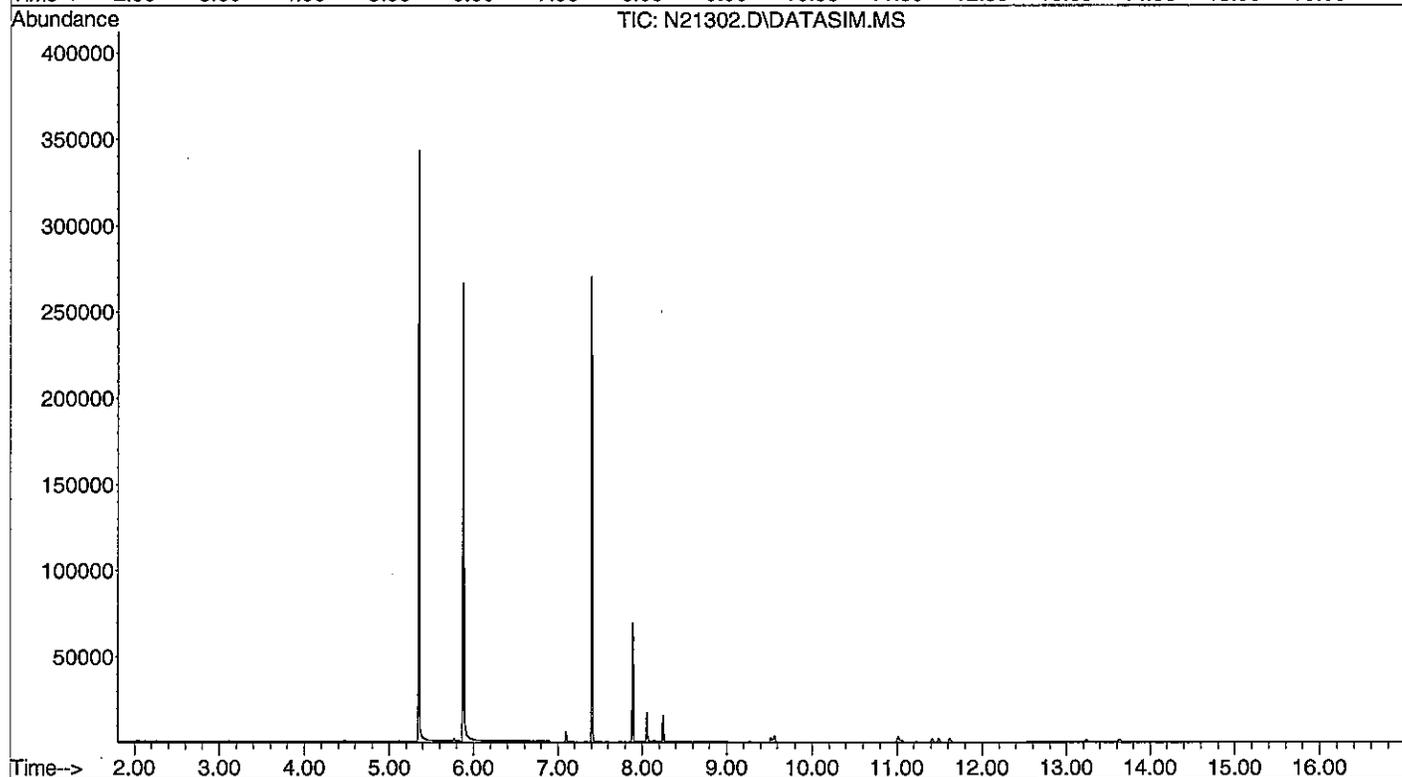
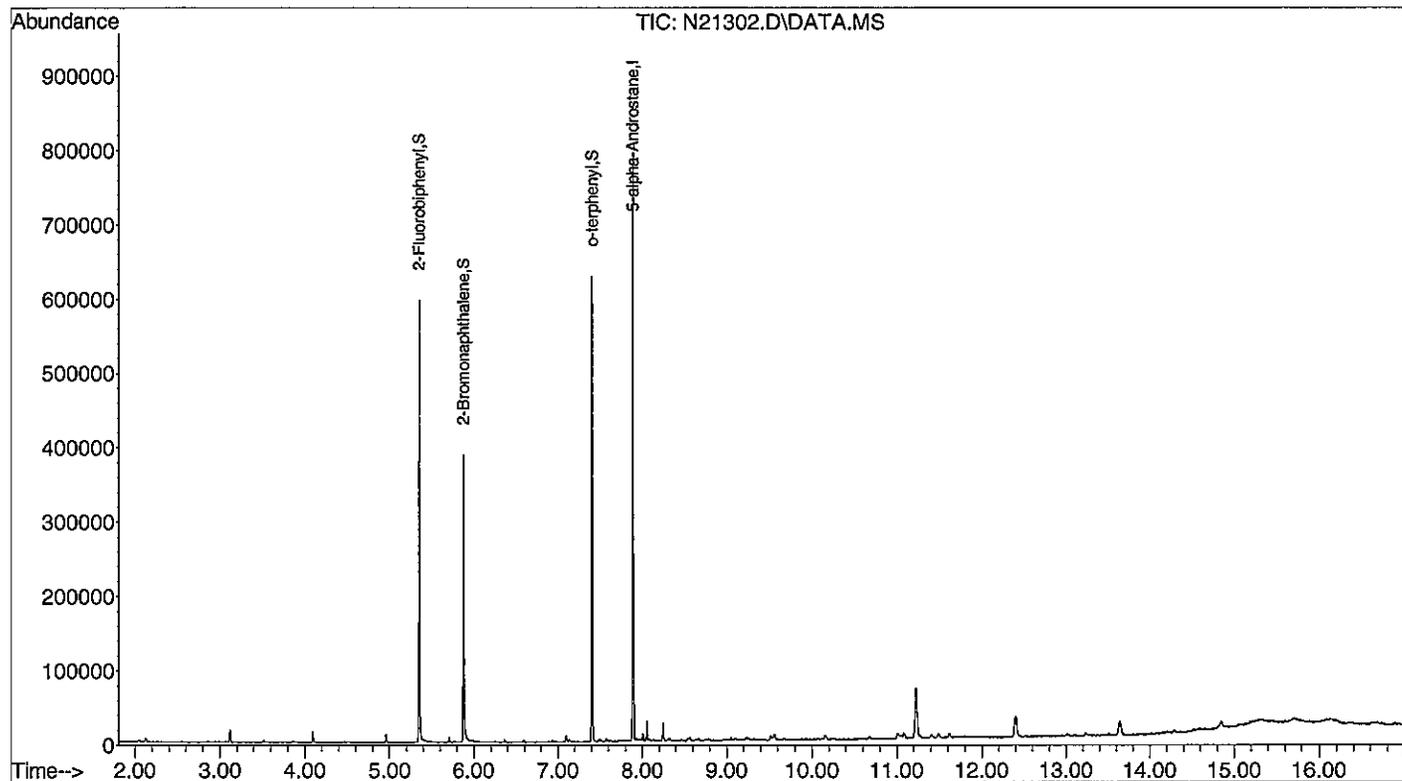
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

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\080112-N\
Data File : N21302.D
Acq On : 1 Aug 2012 6:11 pm
Operator : AR
Sample : 73421-7
Misc : SOIL,ARO
ALS Vial : 13 Sample Multiplier: 1

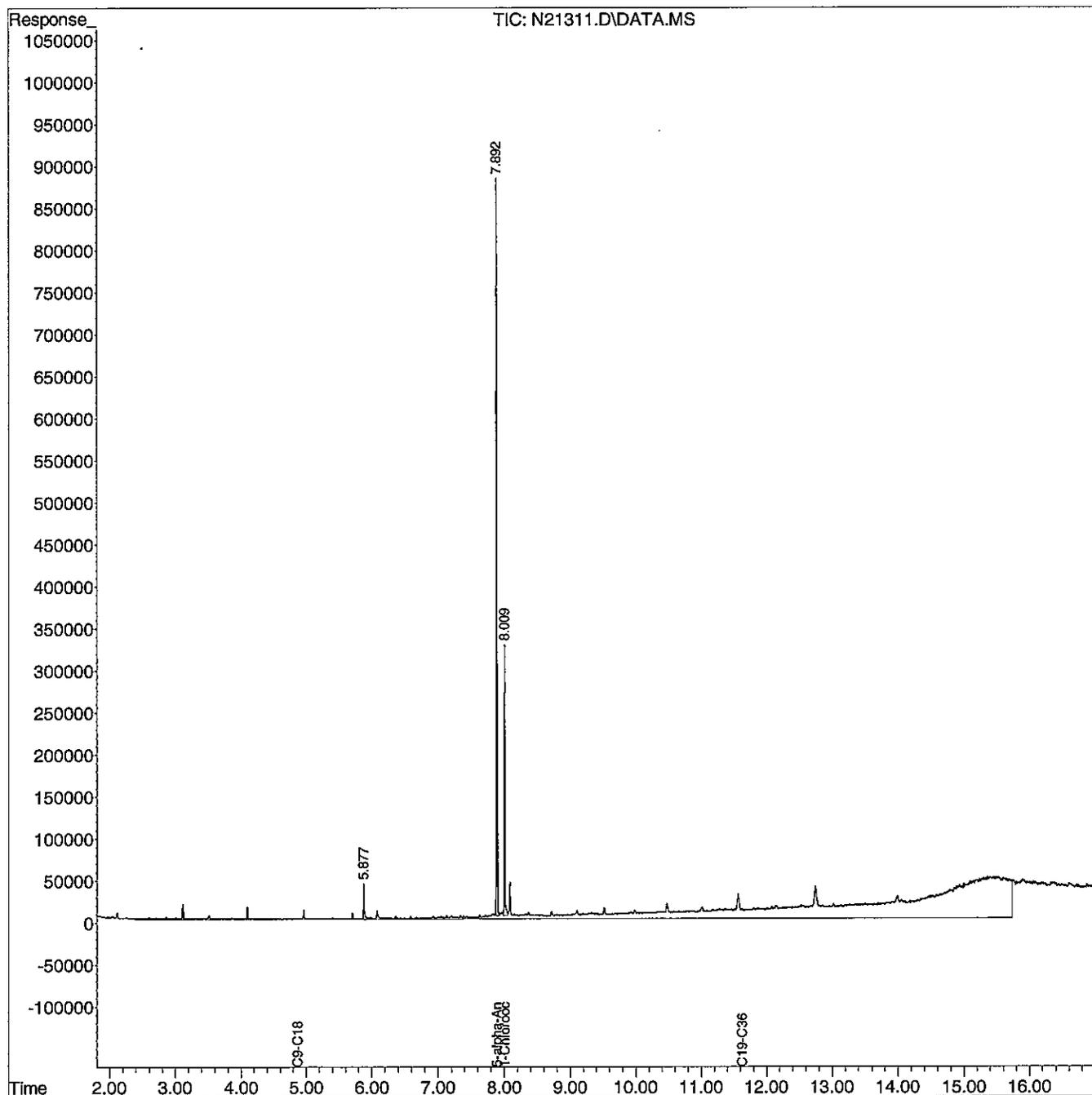
Quant Time: Aug 01 23:03:06 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080112-N\
Data File : N21311.D
Signal(s) : DATA.MS
Acq On : 1 Aug 2012 9:18 pm
Operator : AR
Sample : 73421-7
Misc : SOIL,ALI
ALS Vial : 22 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 02 14:39:29 2012
Quant Method : C:\msdchem\1\METHODS\ALG060812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Thu Jul 26 23:58:14 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



August 6, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

SAMPLE DATA

Lab Sample ID: 73421-8
Matrix: Solid
Percent Solid: 76
Dilution Factor: 1.3
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/30/12
Analysis Date: 08/01/12

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: BK1

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	17600	µg/kg	177000
Diesel PAH Analytes	Naphthalene	352	µg/kg U
	2-Methylnaphthalene	352	µg/kg U
	Phenanthrene	352	µg/kg U
	Acenaphthene	352	µg/kg U
Other Target PAH Analytes	Acenaphthylene	352	µg/kg U
	Fluorene	352	µg/kg U
	Anthracene	352	µg/kg U
	Fluoranthene	352	µg/kg 293 J
	Pyrene	352	µg/kg 261 J
	Benzo[a]anthracene	352	µg/kg U
	Chrysene	352	µg/kg 185 J
	Benzo[b]fluoranthene	352	µg/kg 229 J
	Benzo[k]fluoranthene	352	µg/kg U
	Benzo[a]pyrene	352	µg/kg U
	Indeno[1,2,3-cd]pyrene	352	µg/kg U
	Dibenzo[a,h]anthracene	352	µg/kg U
Benzo[g,h,i]perylene	352	µg/kg U	
C9-C18 Aliphatic Hydrocarbons ¹	17600	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	17600	µg/kg	10100 J
C11-C22 Aromatic Hydrocarbons ^{1,2}	17600	µg/kg	16700 J
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			41
Aromatic Surrogate % Recovery (O-Terphenyl)			68
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			85
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			84
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

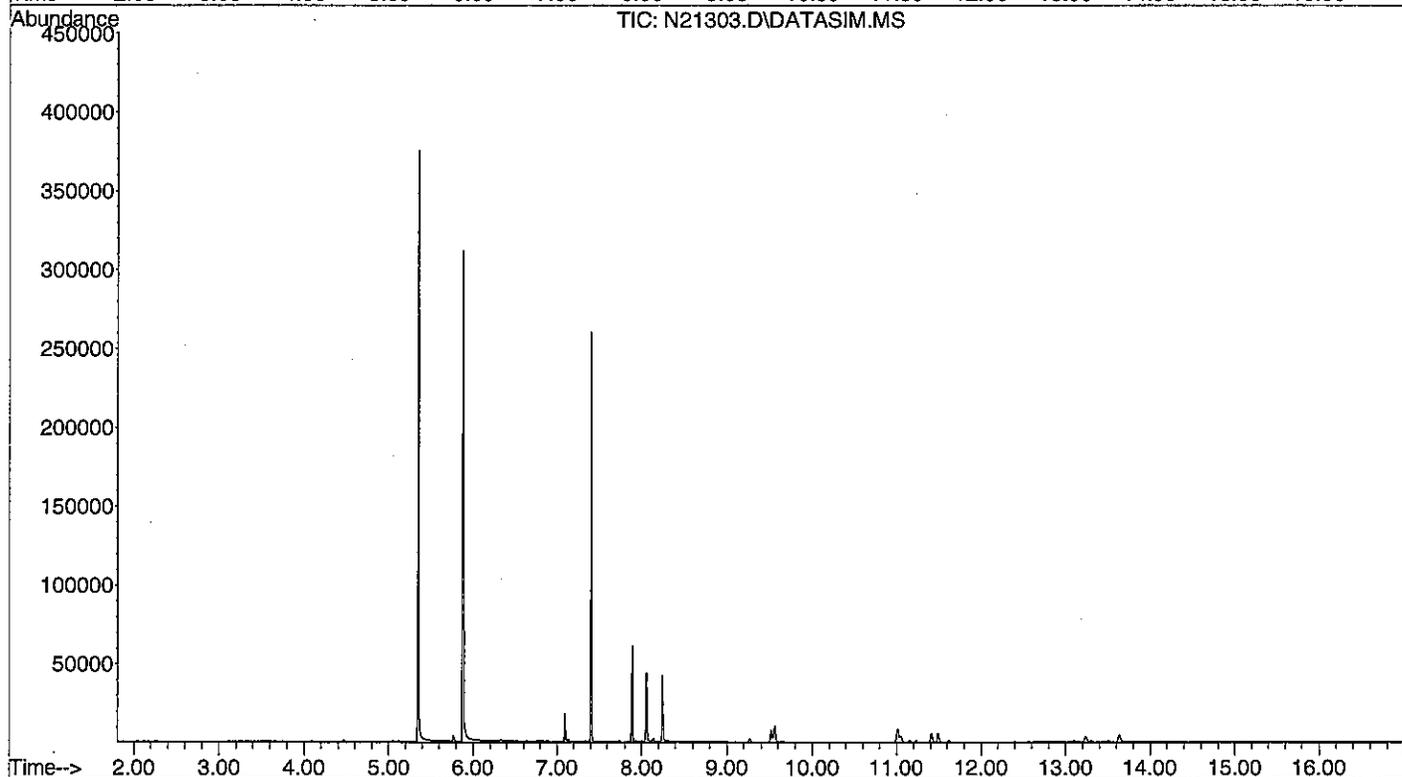
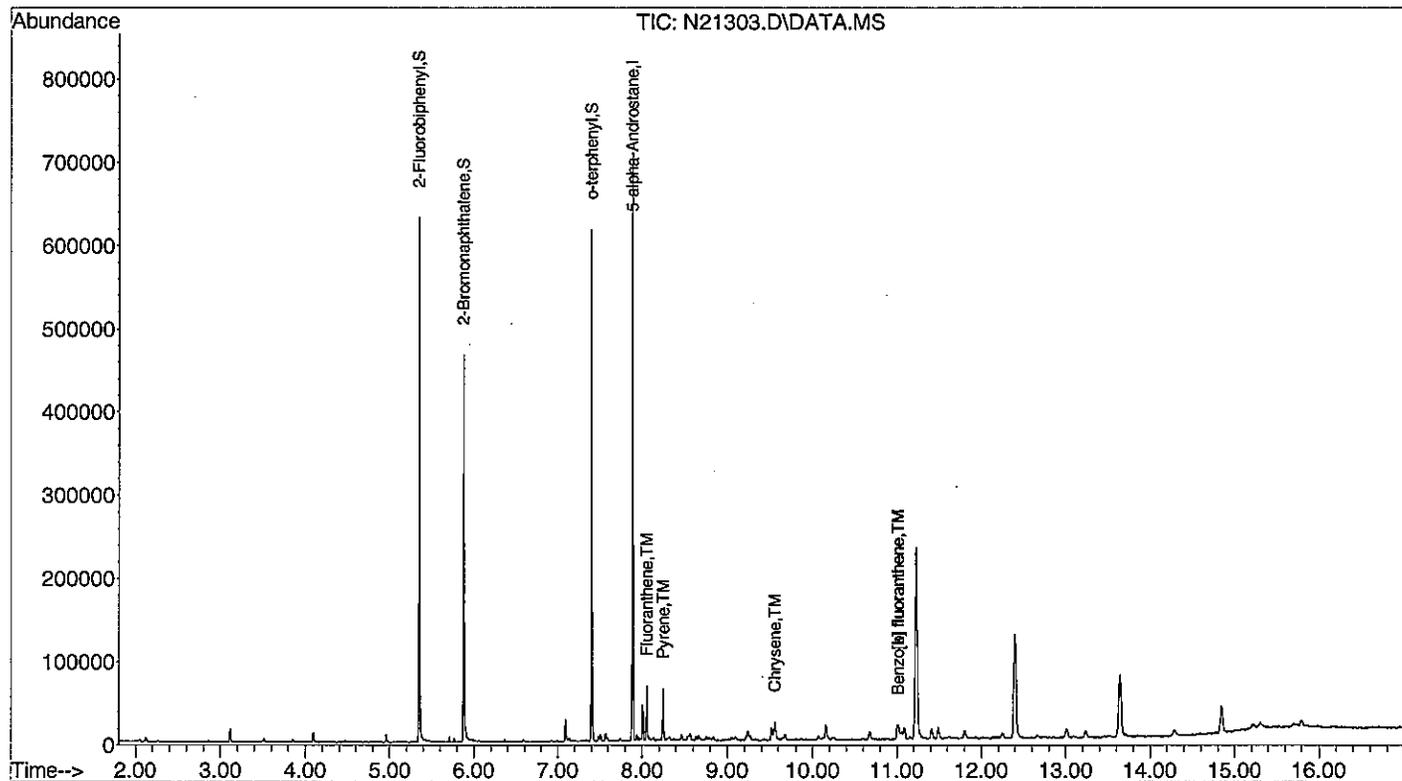
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

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: *Angelina Richard*

Data Path : C:\msdchem\1\DATA\080112-N\
 Data File : N21303.D
 Acq On : 1 Aug 2012 6:32 pm
 Operator : AR
 Sample : 73421-8
 Misc : SOIL, ARO
 ALS Vial : 14 Sample Multiplier: 1

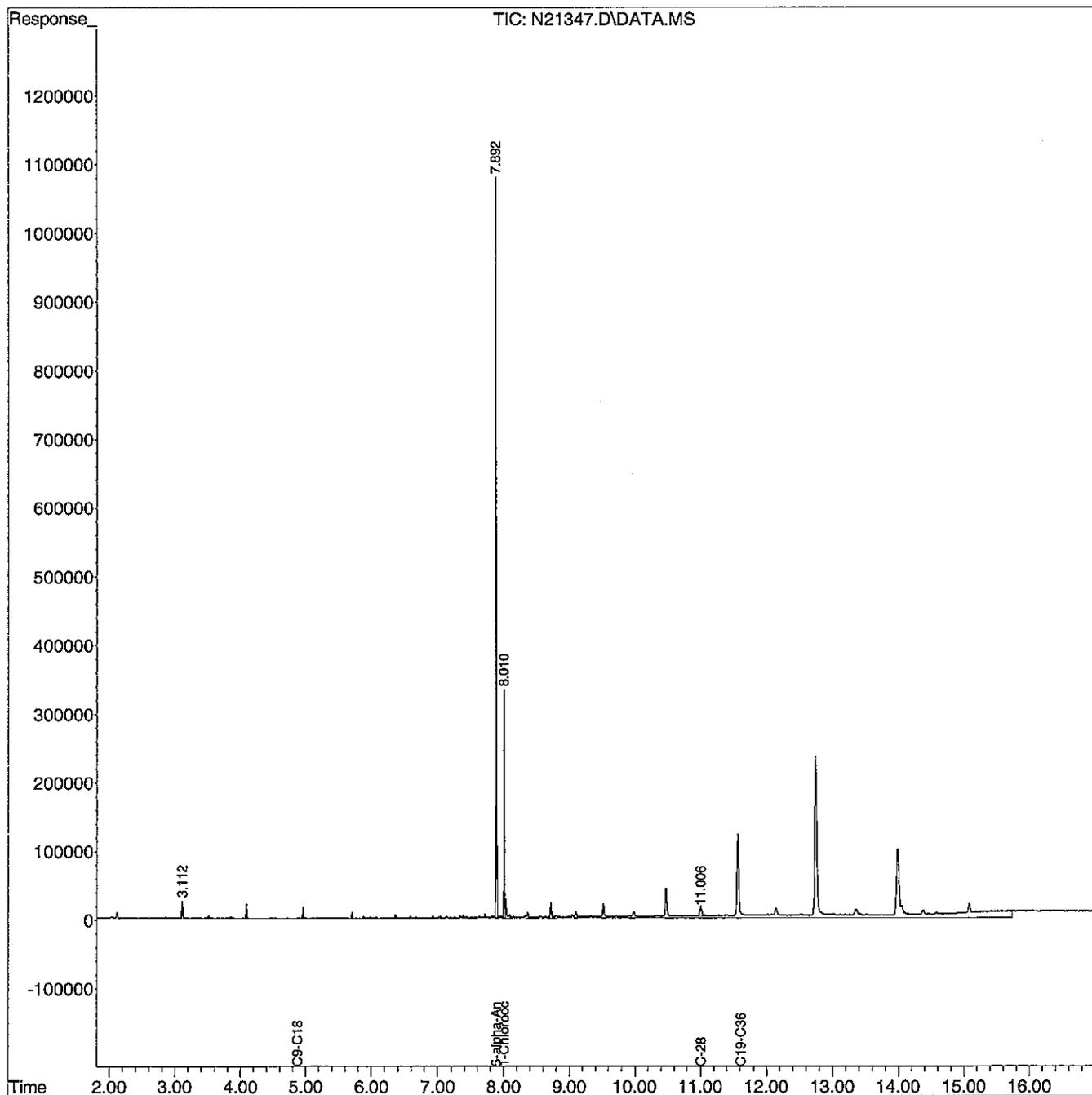
Quant Time: Aug 01 23:03:08 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:13 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080312-N\
 Data File : N21347.D
 Signal(s) : DATA.MS
 Acq On : 4 Aug 2012 1:56 am
 Operator : AR
 Sample : 73421-8
 Misc : SOIL,ALI
 ALS Vial : 12 Sample Multiplier: 1

Integration File: rteint.p
 Quant Time: Aug 04 02:18:17 2012
 Quant Method : C:\msdchem\1\METHODS\ALG080312N.M
 Quant Title : EPH GC ALIPHATICS
 QLast Update : Fri Aug 03 17:58:51 2012
 Response via : Initial Calibration
 Integrator: RTE

Volume Inj. :
 Signal Phase :
 Signal Info :



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 6, 2012

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: MW103

SAMPLE DATA
Lab Sample ID: 73421-13
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 08/02/12
Analysis Date: 08/04/12

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)			63
Aromatic Surrogate % Recovery (O-Terphenyl)			71
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			76
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			56
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

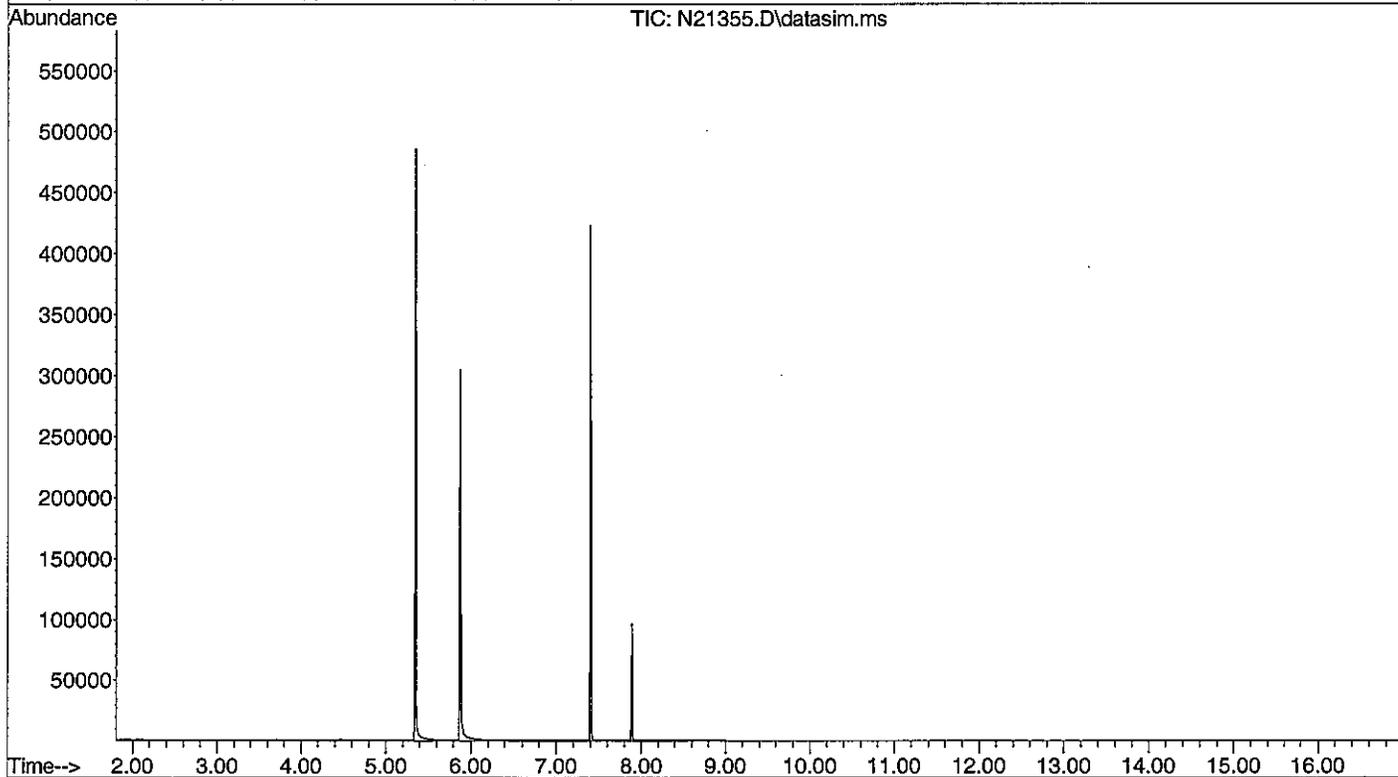
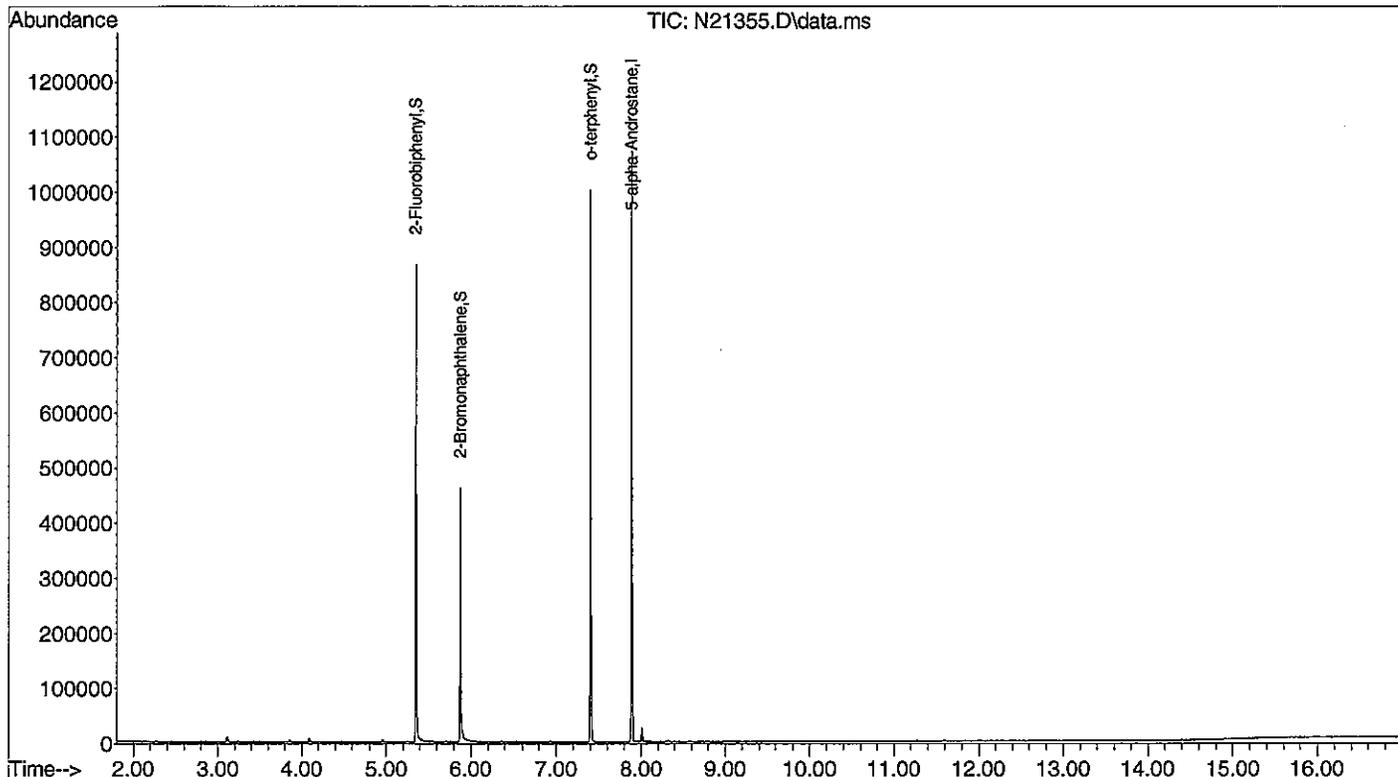
METHODOLOGY MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

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: 

Data Path : C:\msdchem\1\DATA\080312-N\
 Data File : N21355.D
 Acq On : 4 Aug 2012 4:43 am
 Operator : AR
 Sample : 73421-13
 Misc : ARO
 ALS Vial : 20 Sample Multiplier: 1

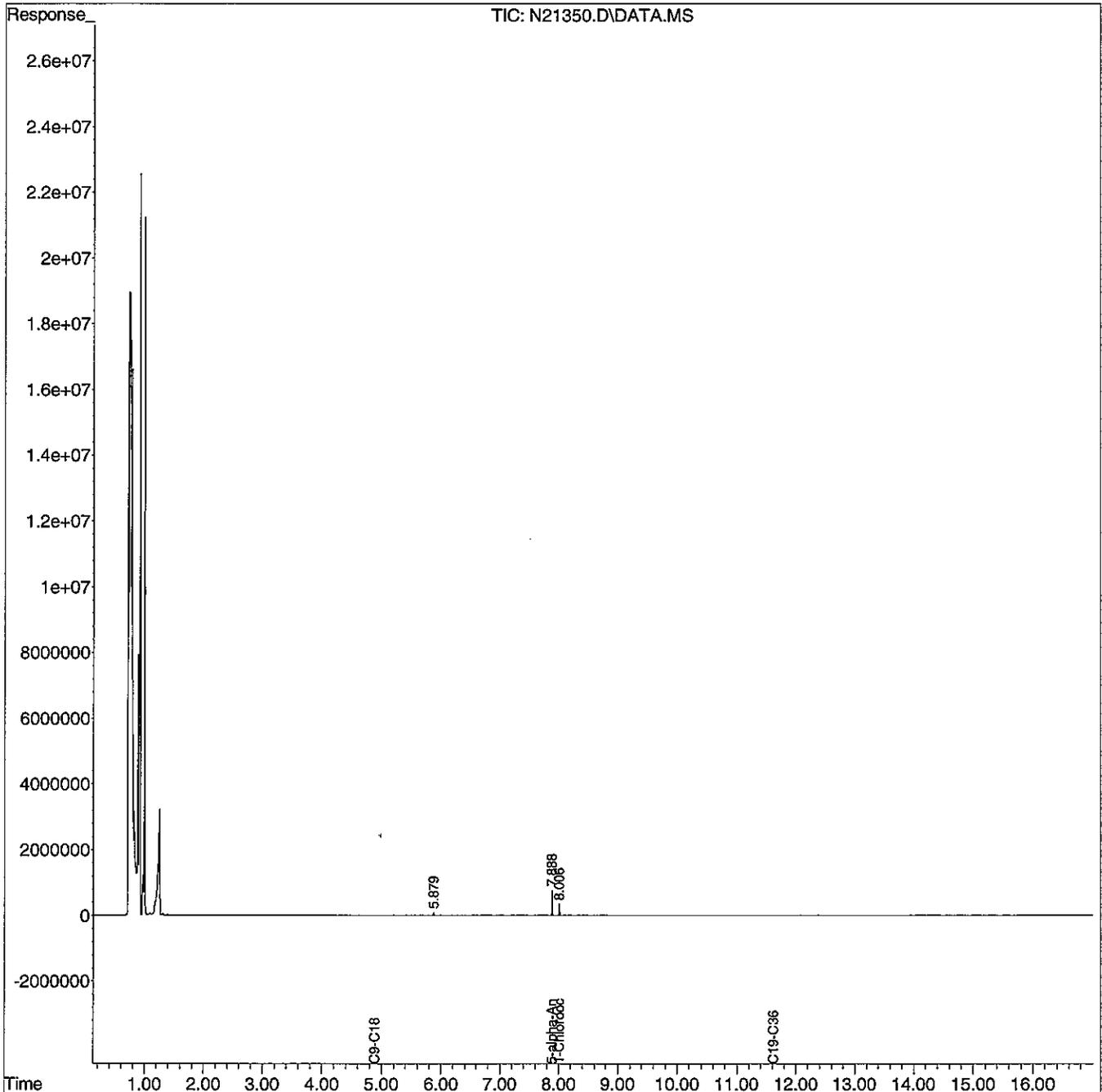
Quant Time: Aug 06 08:50:46 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:13 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080312-N\
Data File : N21350.D
Signal(s) : DATA.MS
Acq On : 4 Aug 2012 2:57 am
Operator : AR
Sample : 73421-13
Misc : ALI
ALS Vial : 15 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 06 08:44:46 2012
Quant Method : C:\msdchem\1\METHODS\ALG080312N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Fri Aug 03 17:58:51 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



Mr. Erik Phenix
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August 6, 2012

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: MW104

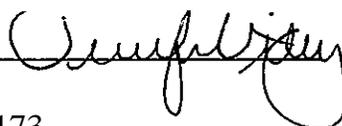
SAMPLE DATA
Lab Sample ID: 73421-14
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 08/02/12
Analysis Date: 08/04/12

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
	Dibenzof[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	51 J
C11-C22 Aromatic Hydrocarbons ^{1,2}	100	µg/L	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			60
Aromatic Surrogate % Recovery (O-Terphenyl)			68
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			74
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			59
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

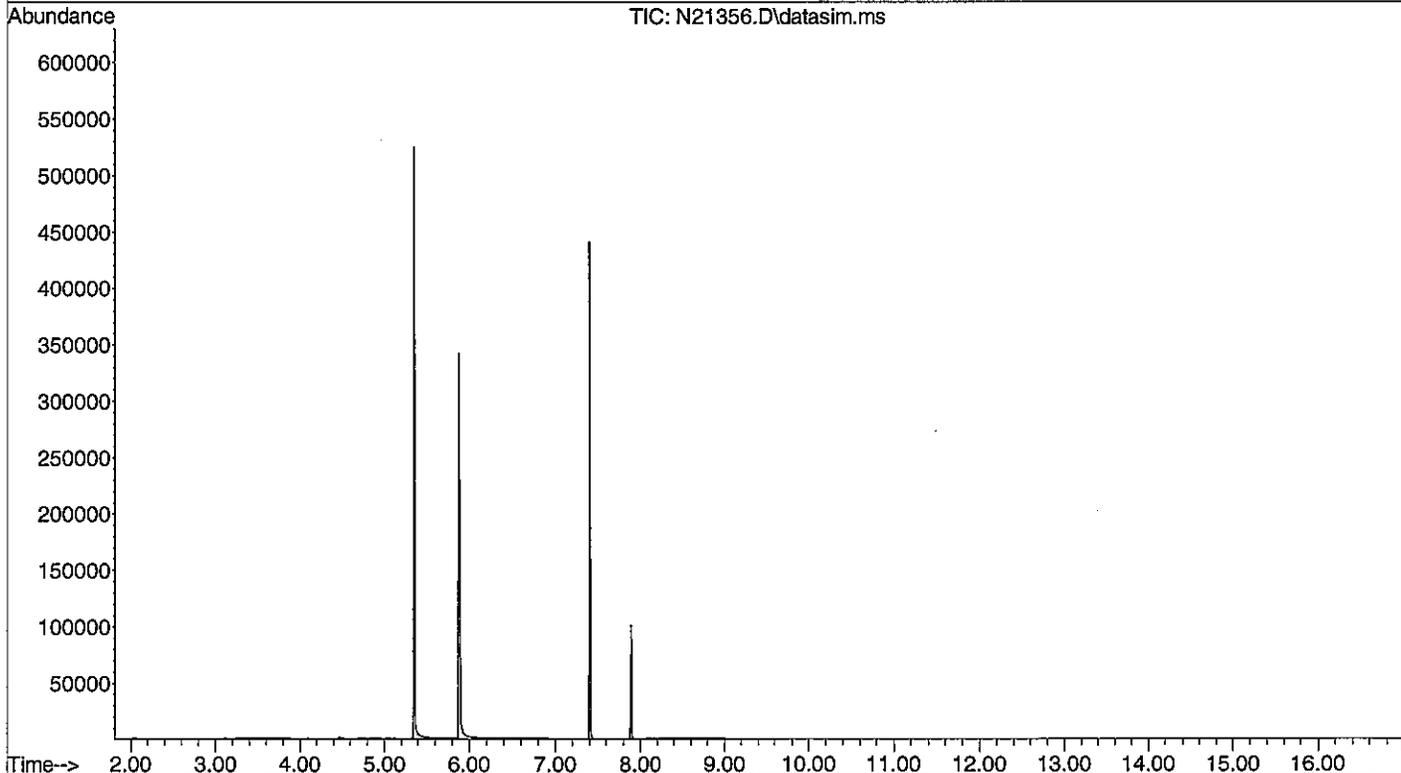
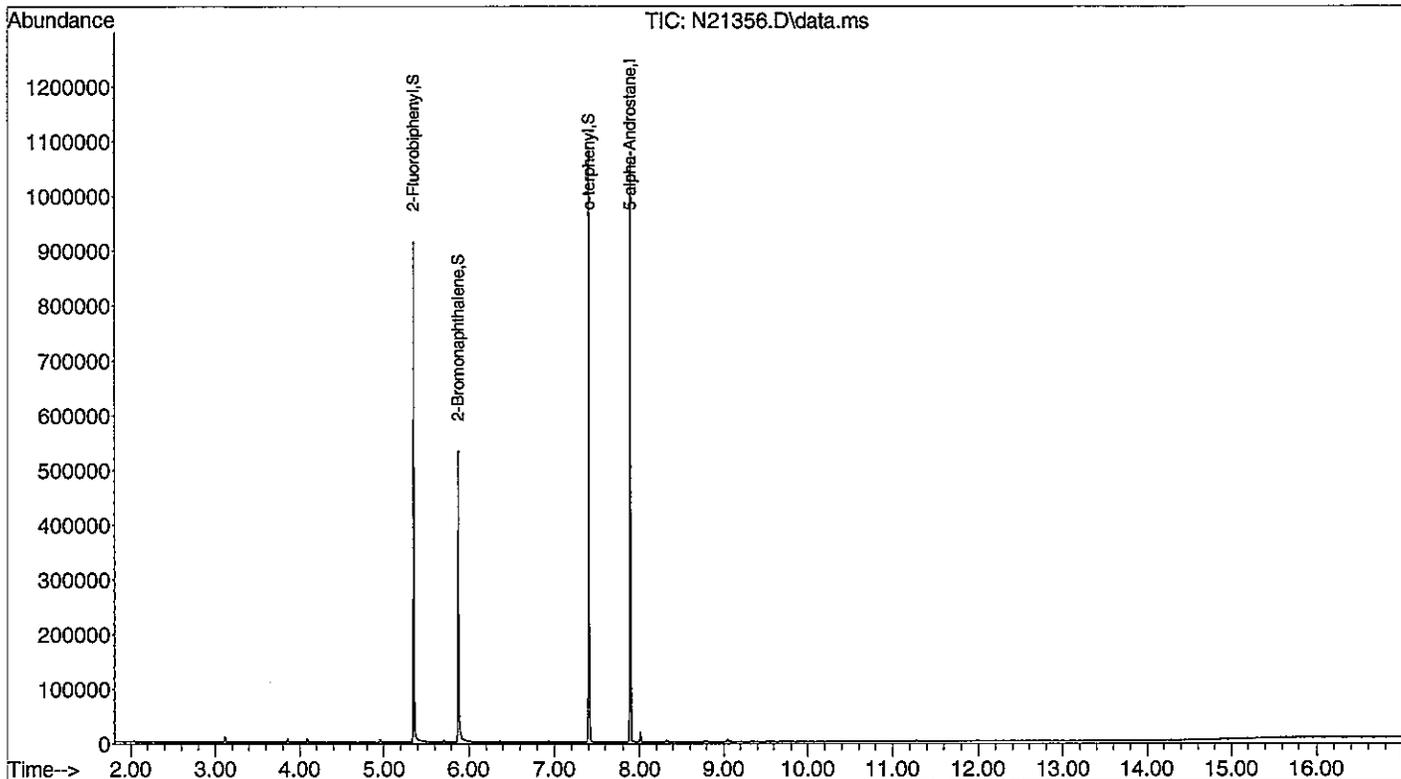
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

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: 

Data Path : C:\msdchem\1\DATA\080312-N\
 Data File : N21356.D
 Acq On : 4 Aug 2012 5:04 am
 Operator : AR
 Sample : 73421-14
 Misc : ARO
 ALS Vial : 21 Sample Multiplier: 1

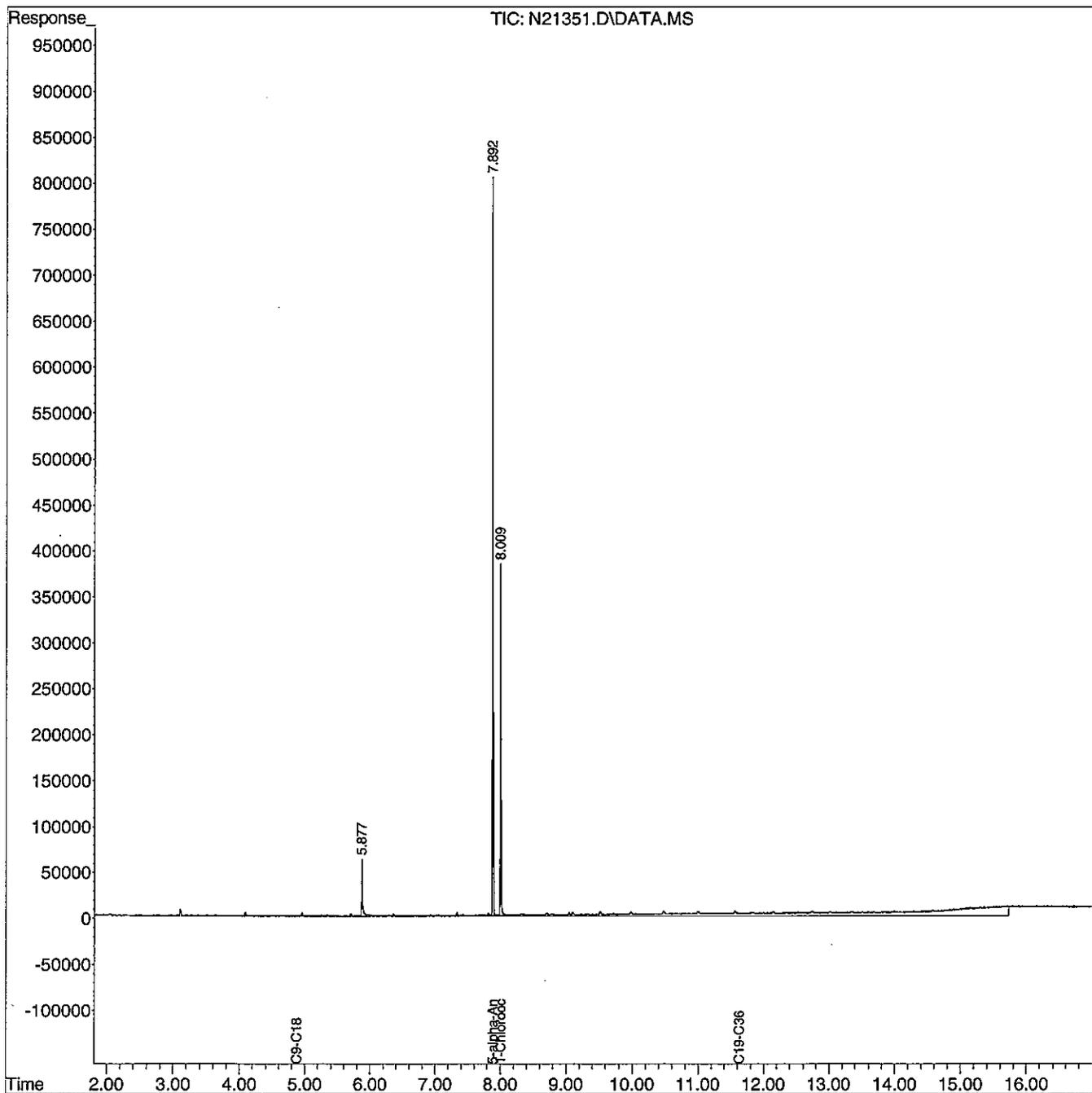
Quant Time: Aug 06 08:50:49 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:13 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080312-N\
Data File : N21351.D
Signal(s) : DATA.MS
Acq On : 4 Aug 2012 3:20 am
Operator : AR
Sample : 73421-14
Misc : ALI
ALS Vial : 16 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 06 08:45:18 2012
Quant Method : C:\msdchem\1\METHODS\ALG080312N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Fri Aug 03 17:58:51 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



August 6, 2012

Mr. Erik Phenix
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Portland, ME 04101

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: MWX

SAMPLE DATA

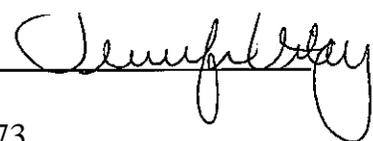
Lab Sample ID: 73421-15
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 08/02/12
Analysis Date: 08/04/12

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
	Benzoflanthracene	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)			63
Aromatic Surrogate % Recovery (O-Terphenyl)			76
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			73
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			65
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

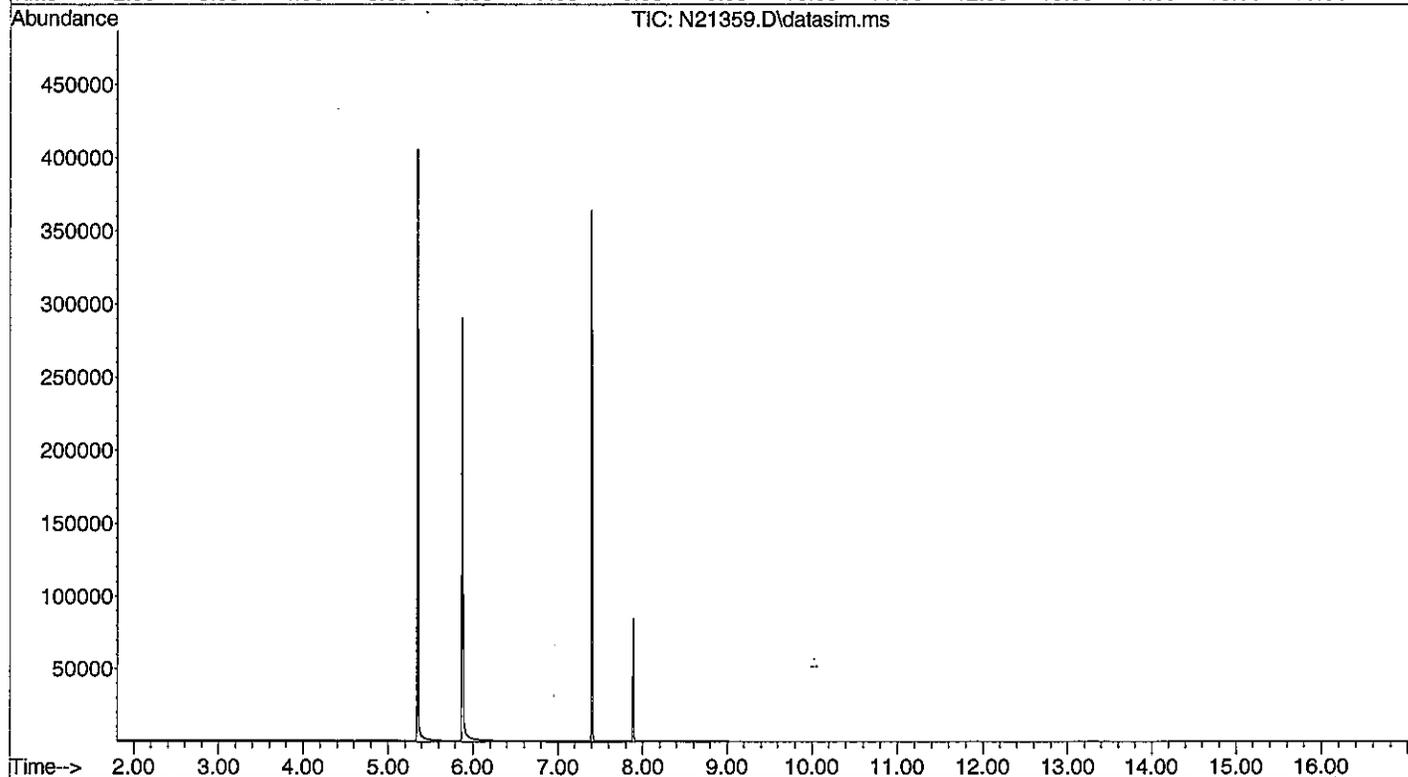
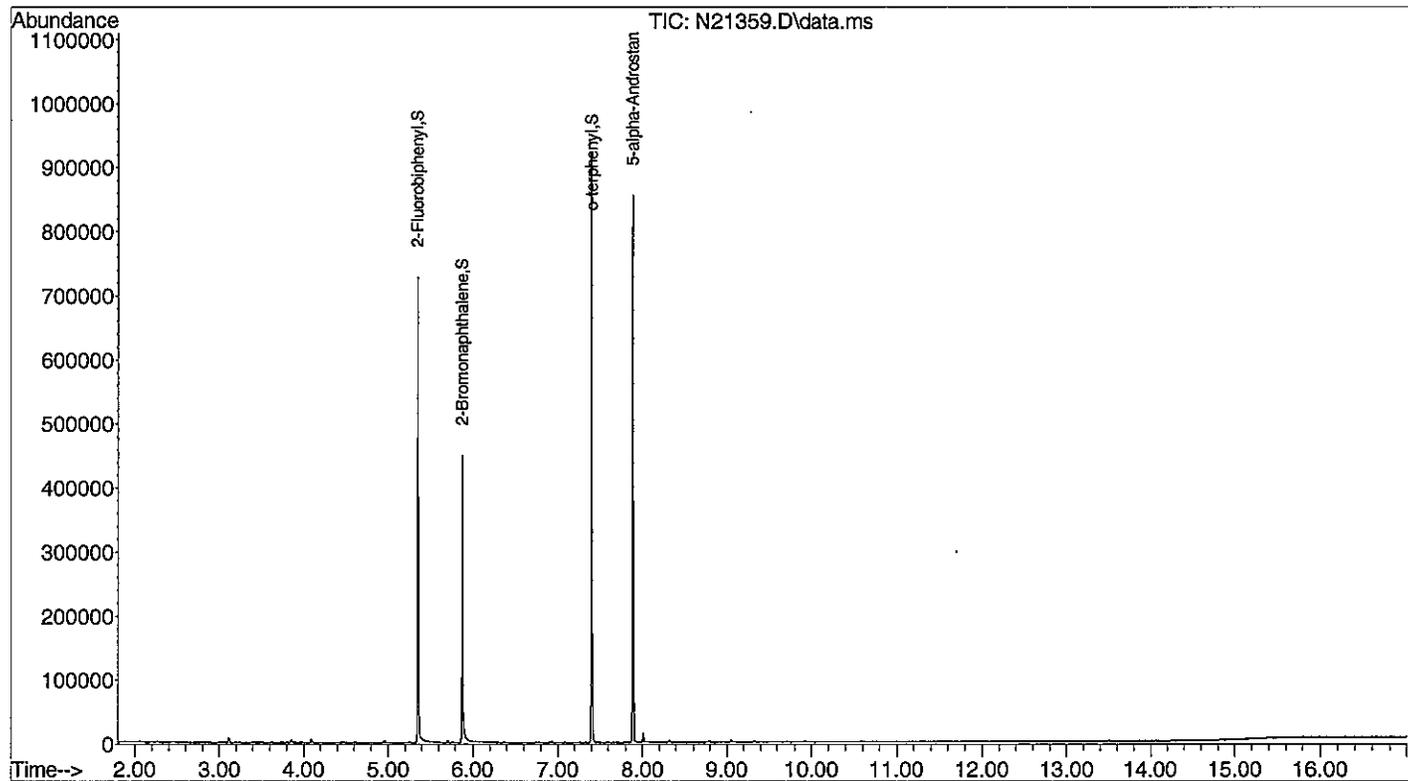
METHODOLOGY MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

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: 

Data Path : C:\msdchem\1\DATA\080312-N\
 Data File : N21359.D
 Acq On : 4 Aug 2012 6:06 am
 Operator : AR
 Sample : 73421-15
 Misc : ARO
 ALS Vial : 24 Sample Multiplier: 1

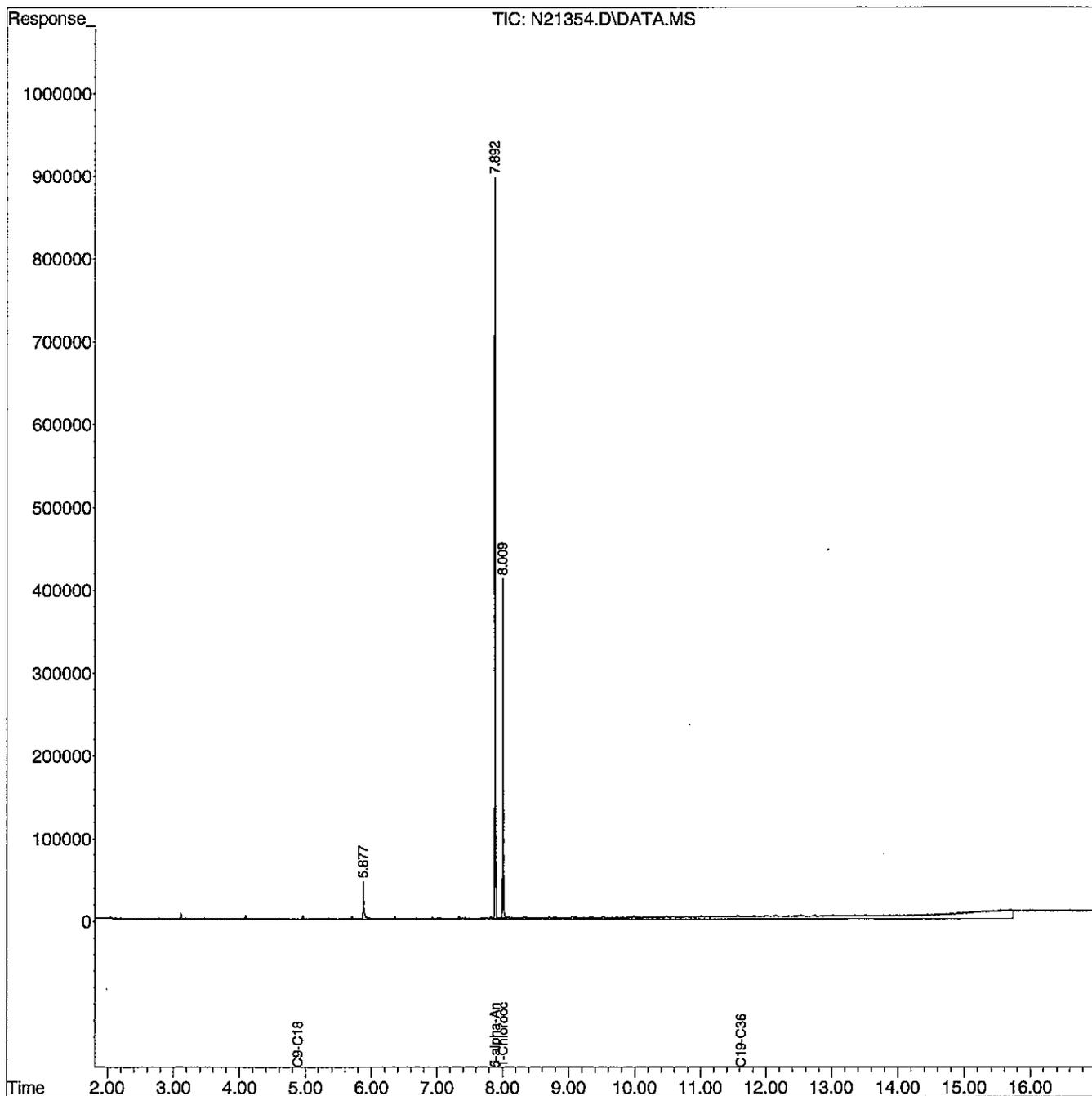
Quant Time: Aug 06 08:50:55 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:13 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080312-N\
Data File : N21354.D
Signal(s) : DATA.MS
Acq On : 4 Aug 2012 4:22 am
Operator : AR
Sample : 73421-15
Misc : ALI
ALS Vial : 19 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 06 08:46:49 2012
Quant Method : C:\msdchem\1\METHODS\ALG080312N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Fri Aug 03 17:58:51 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



August 6, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: B10X-S1

SAMPLE DATA
Lab Sample ID: 73421-18
Matrix: Solid
Percent Solid: 86
Dilution Factor: 1.1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/30/12
Analysis Date: 08/01/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	14900	µg/kg	8010 J
Diesel PAH Analytes	Naphthalene	299	µg/kg U
	2-Methylnaphthalene	299	µg/kg U
	Phenanthrene	299	µg/kg U
	Acenaphthene	299	µg/kg U
Other Target PAH Analytes	Acenaphthylene	299	µg/kg U
	Fluorene	299	µg/kg U
	Anthracene	299	µg/kg U
	Fluoranthene	299	µg/kg U
	Pyrene	299	µg/kg U
	Benzoflanthracene	299	µg/kg U
	Chrysene	299	µg/kg U
	Benzo[b]fluoranthene	299	µg/kg U
	Benzo[k]fluoranthene	299	µg/kg U
	Benzo[a]pyrene	299	µg/kg U
	Indeno[1,2,3-cd]pyrene	299	µg/kg U
	Dibenzo[a,h]anthracene	299	µg/kg U
Benzo[g,h,i]perylene	299	µg/kg U	
C9-C18 Aliphatic Hydrocarbons ¹	14900	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	14900	µg/kg	15300
C11-C22 Aromatic Hydrocarbons ^{1,2}	14900	µg/kg	8010 J
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			50
Aromatic Surrogate % Recovery (O-Terphenyl)			72
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			85
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			81
Fractionation Surrogate Acceptance Range	--	--	40-140%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C11-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

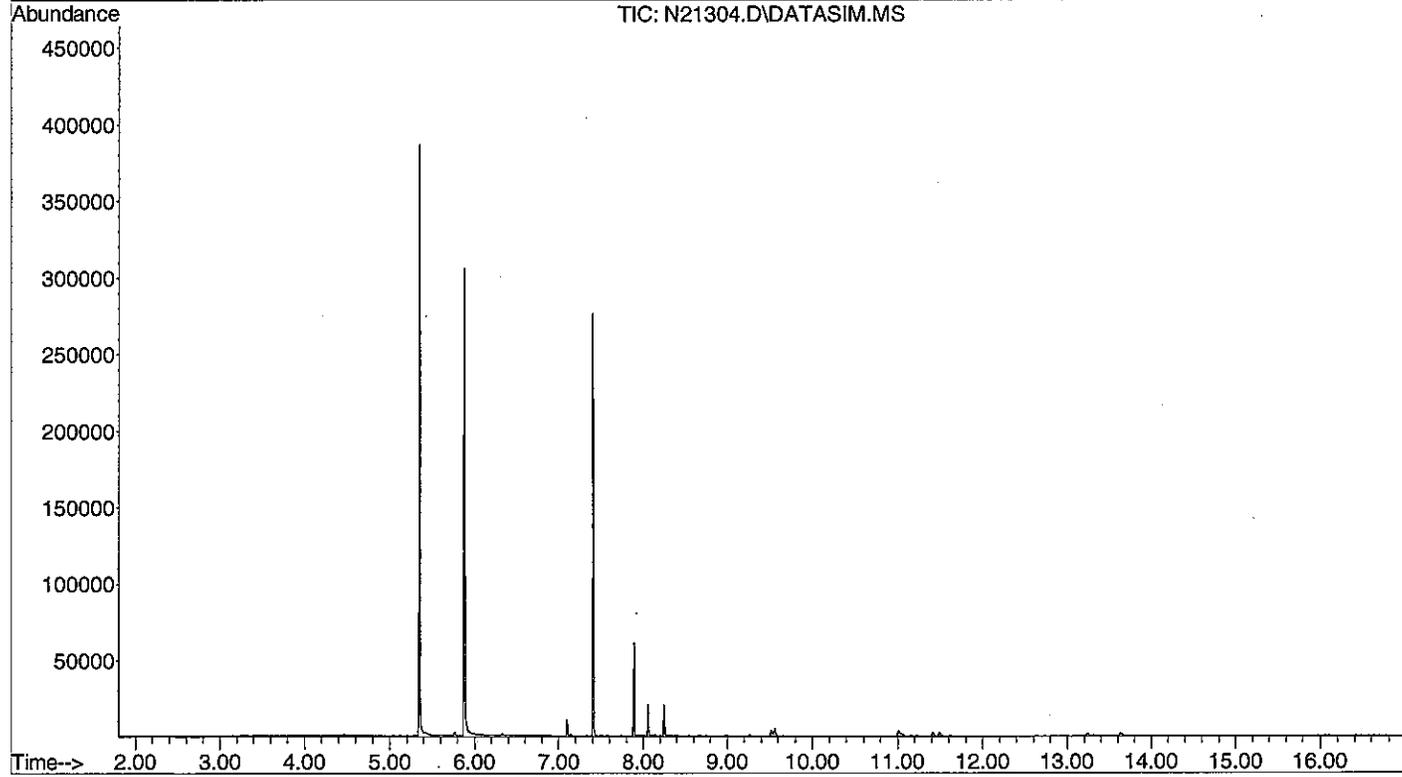
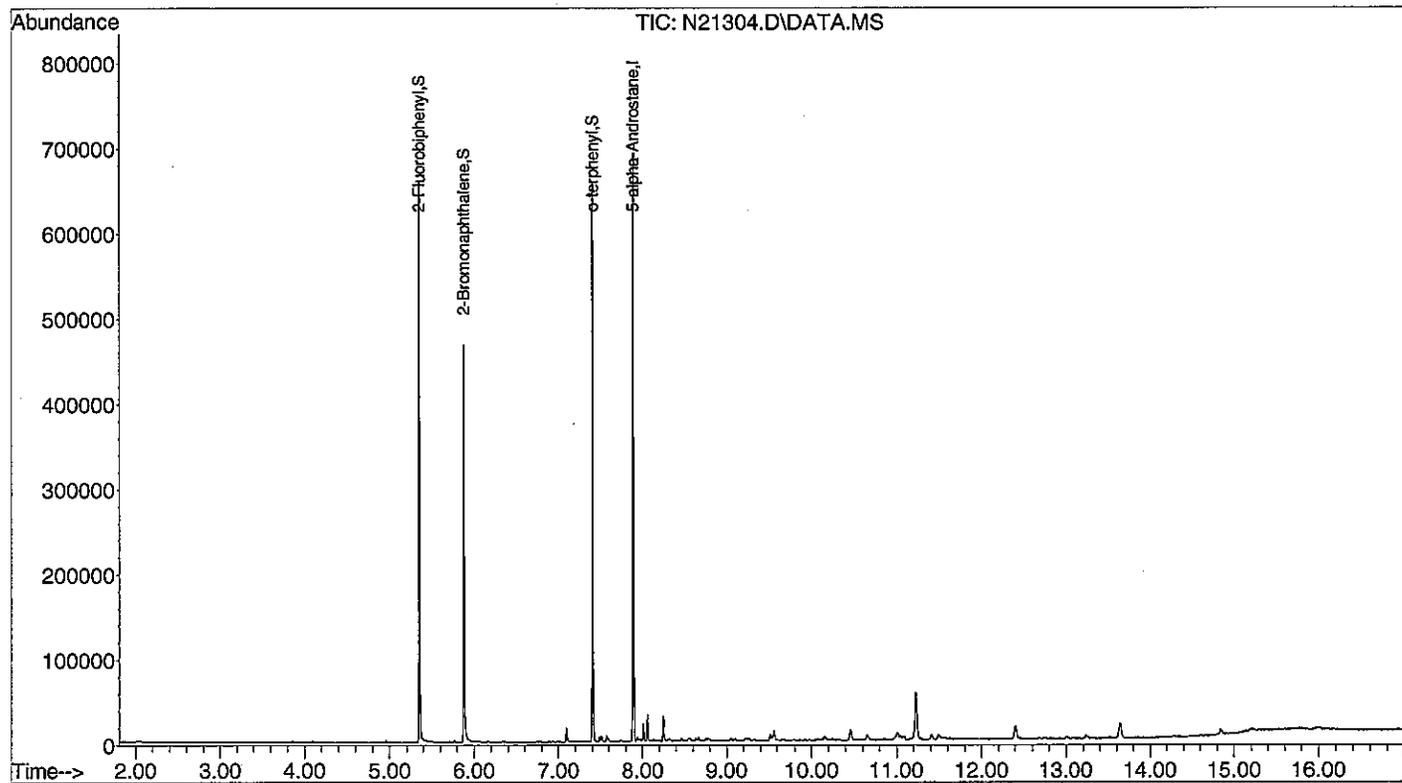
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

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\080112-N\
Data File : N21304.D
Acq On : 1 Aug 2012 6:52 pm
Operator : AR
Sample : 73421-18
Misc : SOIL, ARO
ALS Vial : 15 Sample Multiplier: 1

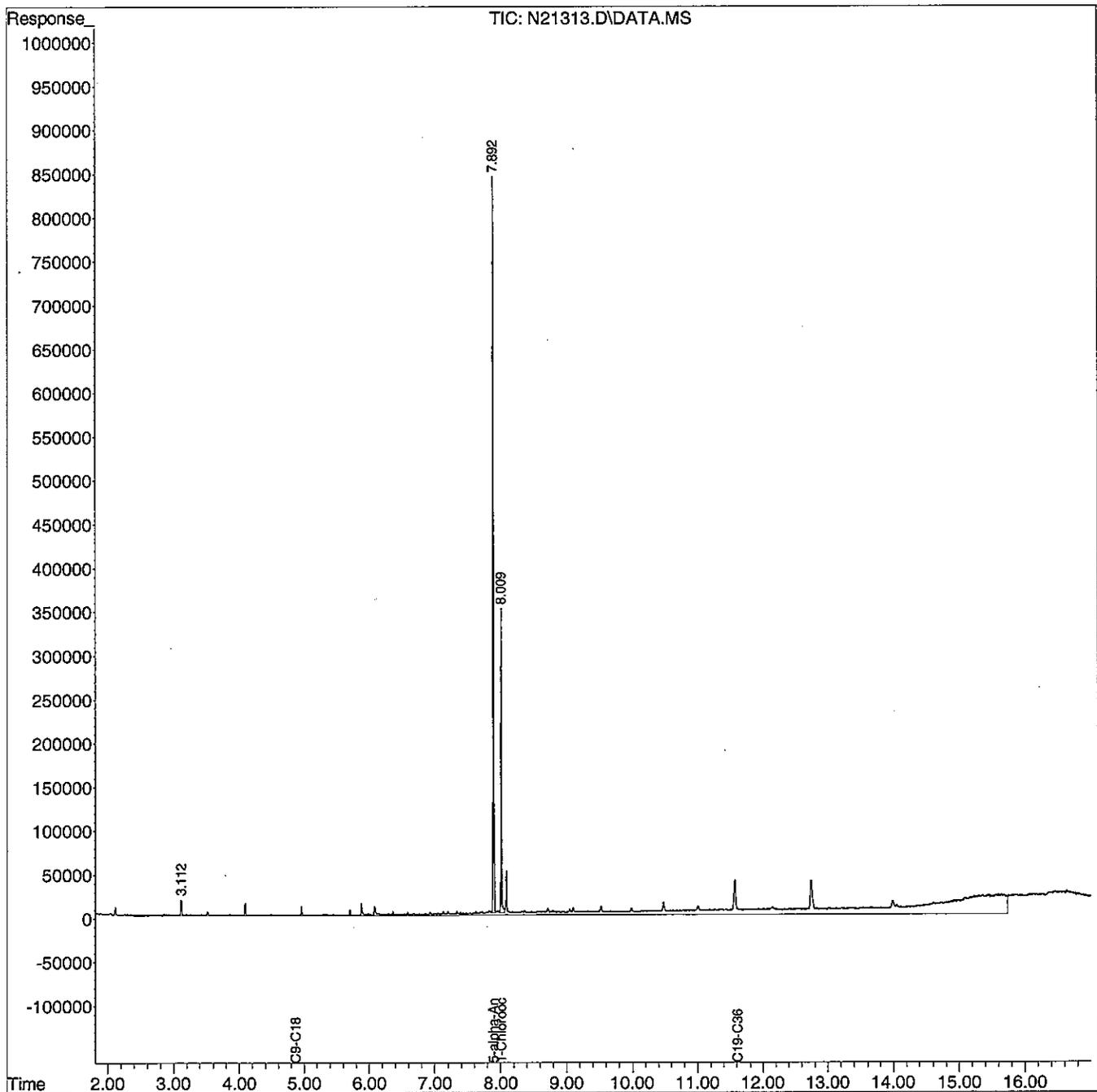
Quant Time: Aug 01 23:03:10 2012
Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
Quant Title : EPH MS AROMATICS
QLast Update : Fri Jul 27 00:00:13 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080112-N\
Data File : N21313.D
Signal(s) : DATA.MS
Acq On : 1 Aug 2012 9:59 pm
Operator : AR
Sample : 73421-18
Misc : SOIL,ALI
ALS Vial : 24 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Aug 02 14:40:20 2012
Quant Method : C:\msdchem\1\METHODS\ALG060812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Thu Jul 26 23:58:14 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



EPH
QC FORMS

August 6, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast

Project Number: 111.06134

Client Sample ID: LabQC

SAMPLE DATA

Lab Sample ID: B073012EASE RR

Matrix: Solid

Percent Solid: 100

Dilution Factor: 1.0

Collection Date:

Lab Receipt Date:

Extraction Date: 07/30/12

Analysis Date: 08/01/12

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
	2-Methylnaphthalene	267	µg/kg
	Phenanthrene	267	µg/kg
	Acenaphthene	267	µg/kg
Other Target PAH Analytes	Acenaphthylene	267	µg/kg
	Fluorene	267	µg/kg
	Anthracene	267	µg/kg
	Fluoranthene	267	µg/kg
	Pyrene	267	µg/kg
	Benzoflanthracene	267	µg/kg
	Chrysene	267	µg/kg
	Benzoflfluoranthene	267	µg/kg
	Benzok]fluoranthene	267	µg/kg
	Benzoflpyrene	267	µg/kg
	Indeno[1,2,3-cd]pyrene	267	µg/kg
	Dibenzo[a,h]lanthracene	267	µg/kg
Benzofg,h]perylene	267	µg/kg	
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)			62
Aromatic Surrogate % Recovery (O-Terphenyl)			40-140%
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			70
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			60
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

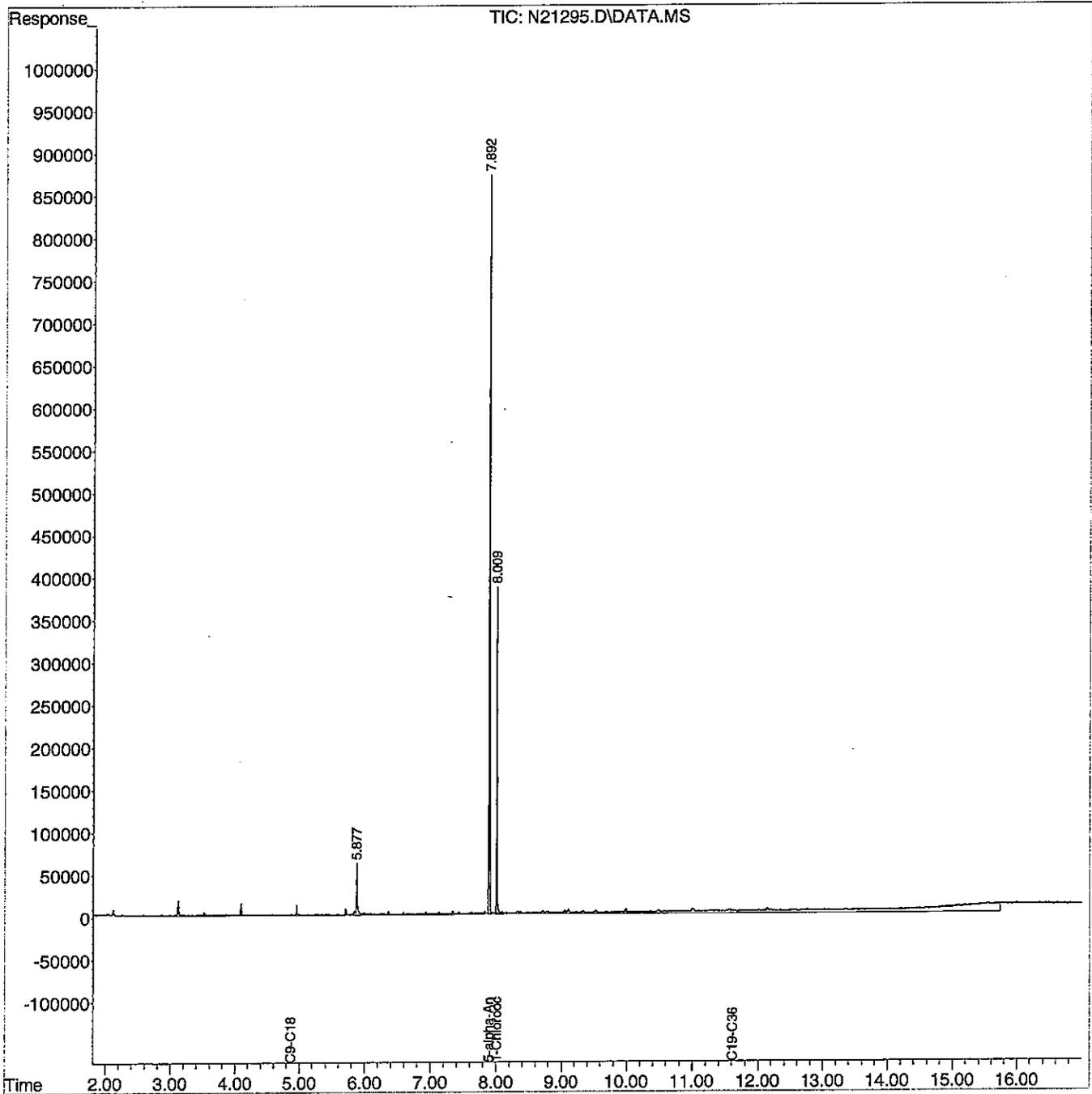
COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\080112-N\
Data File : N21295.D
Signal(s) : DATA.MS
Acq On : 1 Aug 2012 4:28 pm
Operator : AR
Sample : B073012EASE,RR
Misc : SOIL,ALI
ALS Vial : 6 Sample Multiplier: 1

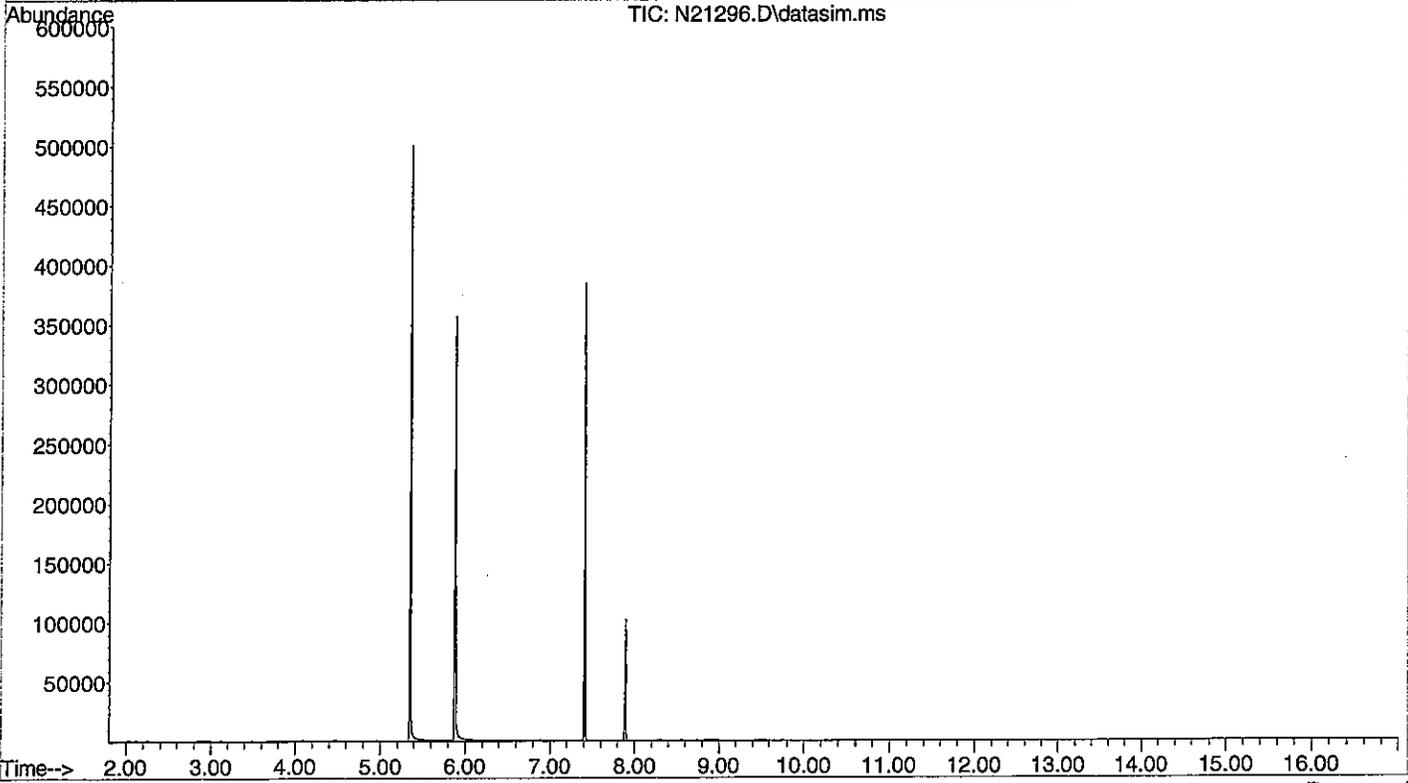
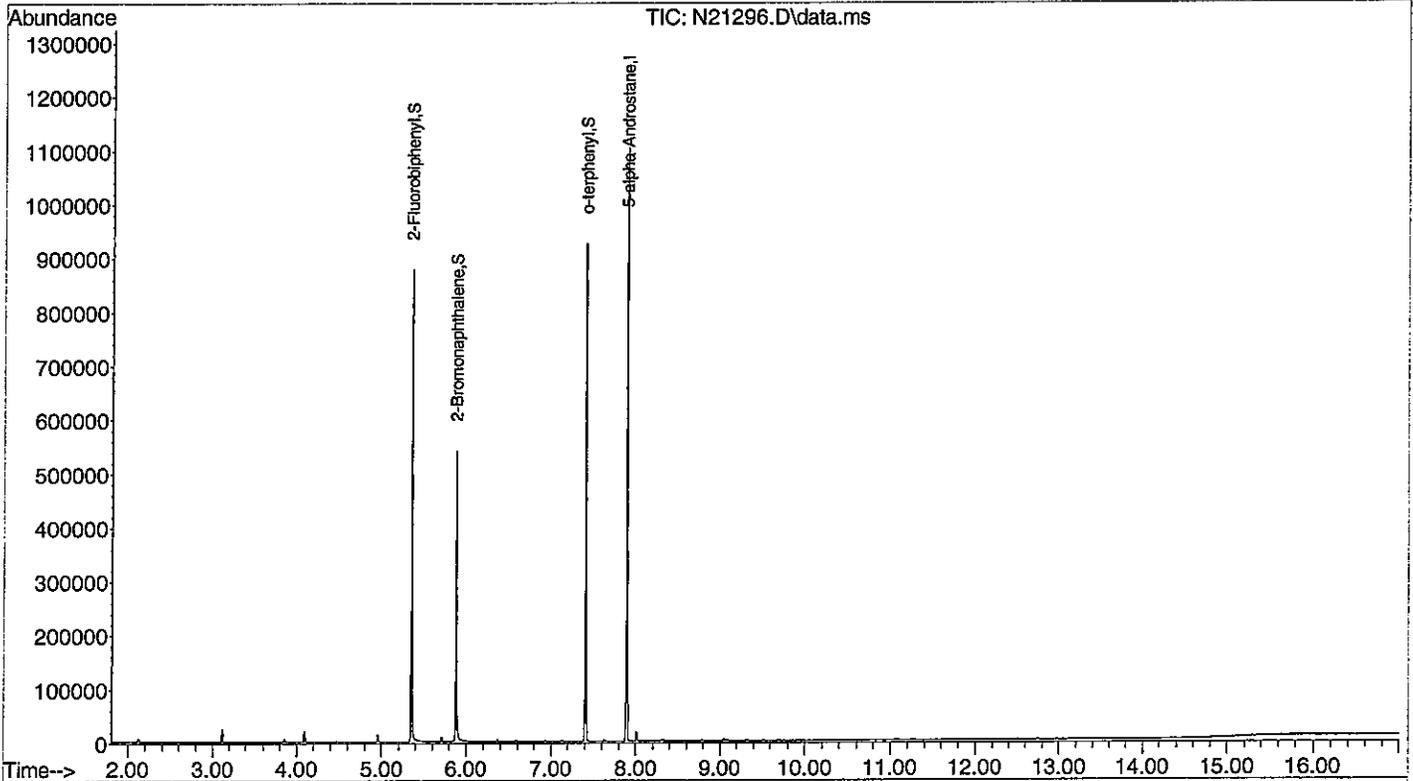
Integration File: rteint.p
Quant Time: Aug 02 14:36:32 2012
Quant Method : C:\msdchem\1\METHODS\ALG060812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Thu Jul 26 23:58:14 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\1\DATA\080112-N\
 Data File : N21296.D
 Acq On : 1 Aug 2012 4:48 pm
 Operator : AR
 Sample : B073012EASE,RR
 Misc : SOIL,ARO
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 02 15:10:10 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



August 6, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Client Sample ID: LabQC

SAMPLE DATA

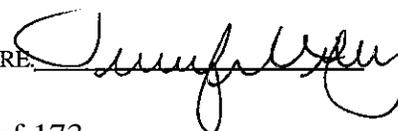
Lab Sample ID: B080212EW
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/02/12
Analysis Date: 08/04/12

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
	Dibenzof[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)				68
Aromatic Surrogate % Recovery (O-Terphenyl)				76
Sample Surrogate Acceptance Range				40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				75
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				60
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				

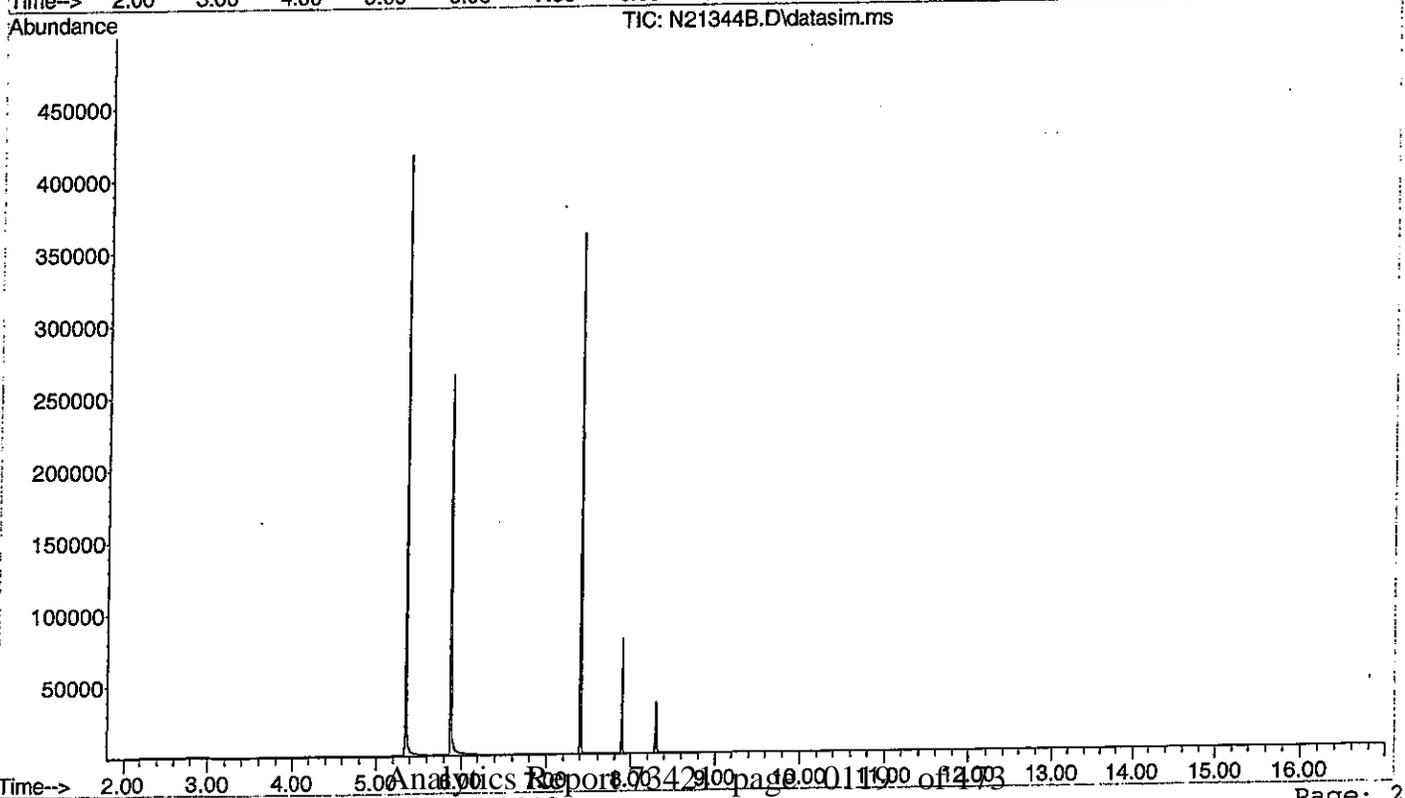
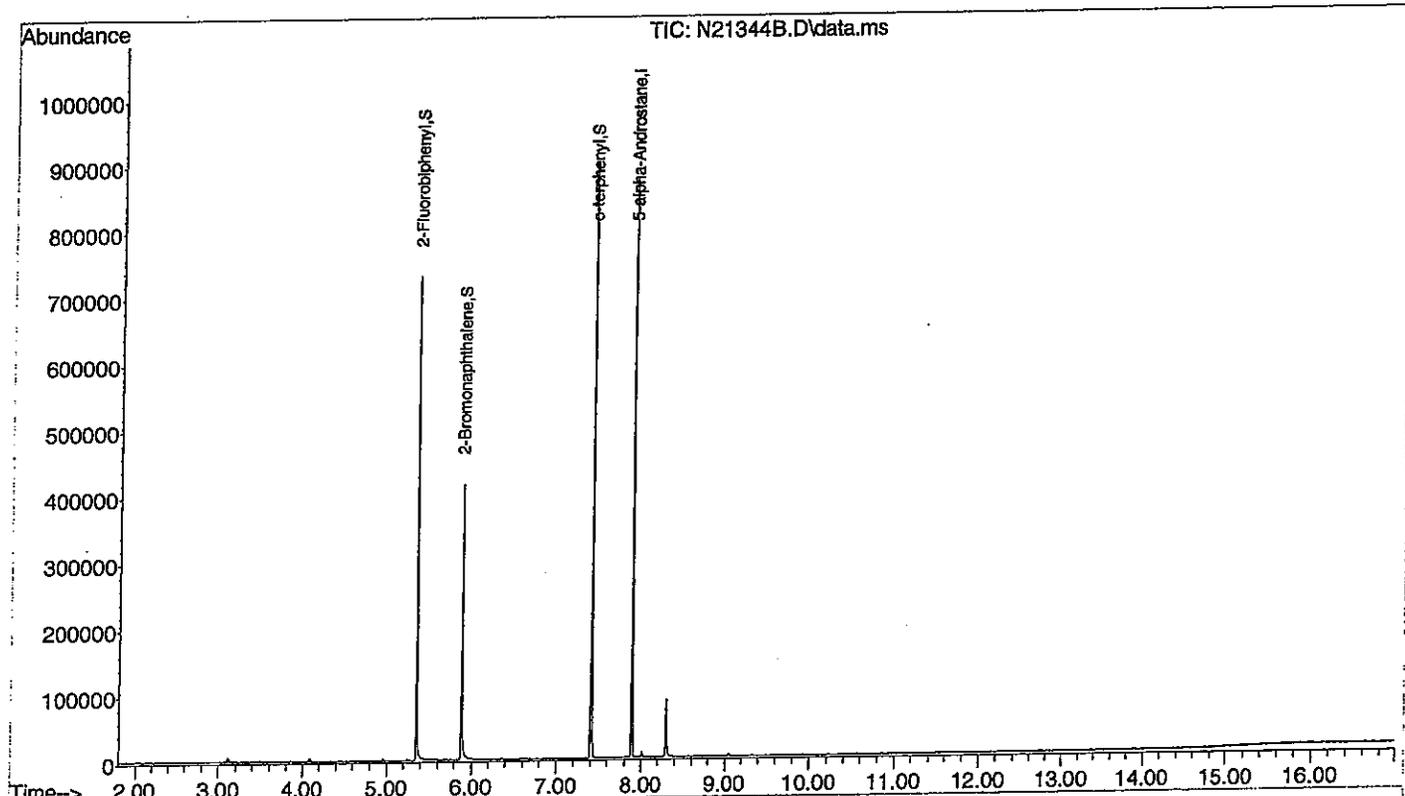
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3510C.

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: 

Data Path : C:\msdchem\1\DATA\080312-N\
 Data File : N21344B.D
 Acq On : 4 Aug 2012 12:54 am
 Operator : AR
 Sample : B080212EW
 Misc : ARO
 ALS Vial : 9 Sample Multiplier: 1

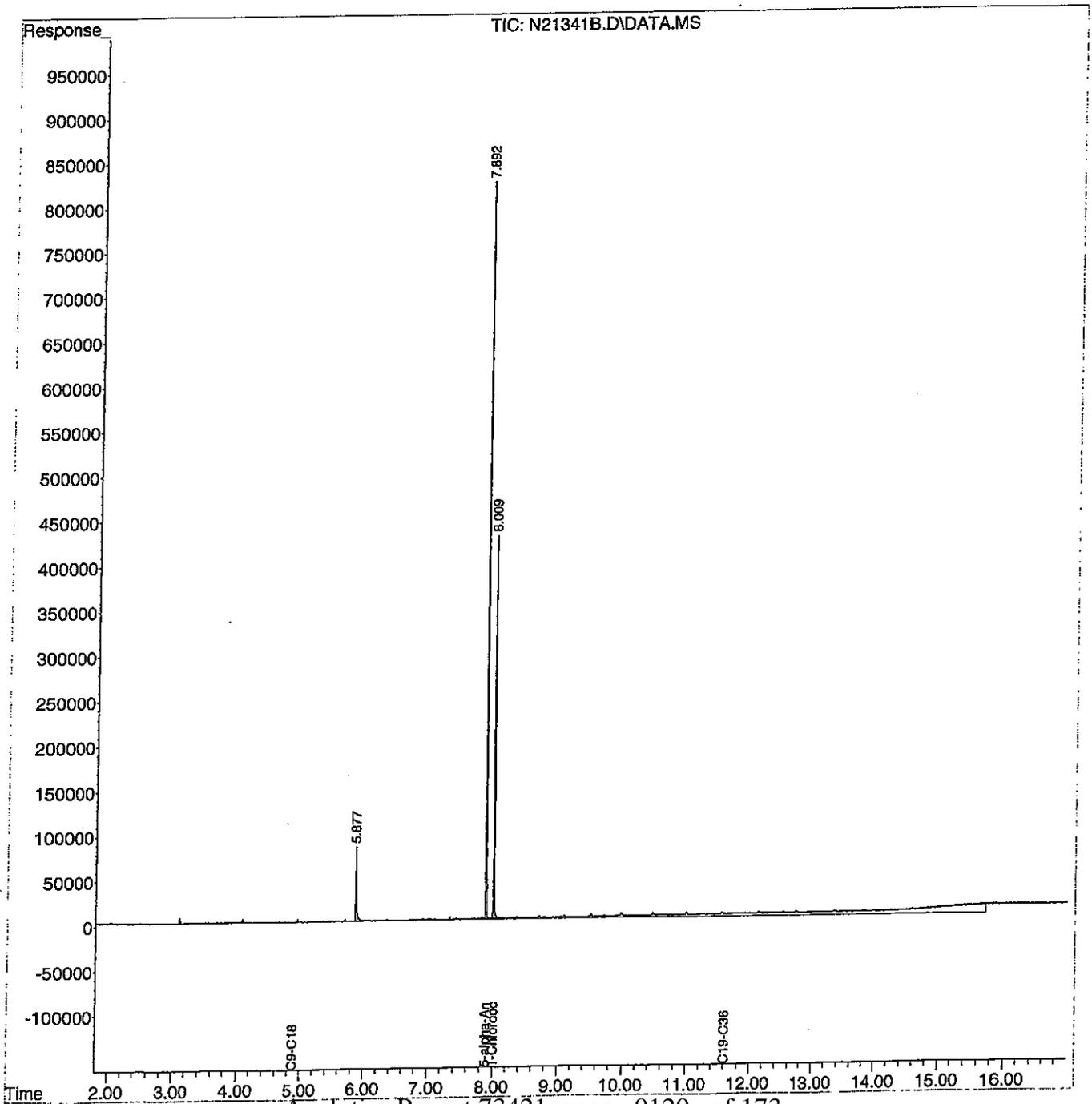
Quant Time: Aug 04 01:26:11 2012
 Quant Method : C:\msdchem\1\METHODS\ARM071012N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Fri Jul 27 00:00:14 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\080312-N\
 Data File : N21341B.D
 Signal(s) : DATA.MS
 Acq On : 3 Aug 2012 11:52 pm
 Operator : AR
 Sample : B080212EW
 Misc : ALI
 ALS Vial : 6 Sample Multiplier: 1

Integration File: rteint.p
 Quant Time: Aug 04 01:24:10 2012
 Quant Method : C:\msdchem\1\METHODS\ALG080312N.M
 Quant Title : EPH GC ALIPHATICS
 QLast Update : Fri Aug 03 17:58:51 2012
 Response via : Initial Calibration
 Integrator: RTE

Volume Inj. :
 Signal Phase :
 Signal Info :



EPH ALIPHATICS
 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: B073012EASE
 Spike: L073012EASE
 Spike duplicate: LD073012EASE

COMPOUND	LCS SPIKE	LCD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP	SPIKE DUP	RPD		
	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	% REC	#	#
C-9	3333	3333	30	140	25	0	1204	36		1227	37		2
C-10	3333	3333	40	140	25	0	1399	42		1439	43		3
C-12	3333	3333	40	140	25	0	1496	45		1557	47		4
C-14	3333	3333	40	140	25	0	1587	48		1660	50		5
C-16	3333	3333	40	140	25	0	1685	51		1784	54		6
C-18	3333	3333	40	140	25	0	1785	54		1848	55		3
C-19	3333	3333	40	140	25	0	1673	50		1755	53		5
C-20	3333	3333	40	140	25	0	1852	56		1947	58		5
C-22	3333	3333	40	140	25	0	1873	56		1984	60		6
C-24	3333	3333	40	140	25	0	2012	60		2144	64		6
C-26	3333	3333	40	140	25	0	2036	61		2180	65		7
C-28	3333	3333	40	140	25	0	1912	57		2157	65		12
C-30	3333	3333	40	140	25	0	1879	56		2080	62		10
C-36	3333	3333	40	140	25	0	965	29	*	1196	36	*	21
C9-C18 Aliphatics	20000	20000	40	140	25	0	9156	46		9515	48		4
C19-C36 Aliphatics	26667	26667	40	140	25	0	14203	53		15443	58		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 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: B073012EASE
Spike: L073012EASE
Spike duplicate: LD073012EASE

COMPOUND	LCS SPIKE	LCSD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP	SPIKE DUP	RPD	#
	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	RESULT (ug/kg)	% REC		
Naphthalene	3333	3333	40	140	30	0	1664	50	1925	58	15	
2-Methylnaphthalene	3333	3333	40	140	30	0	1780	53	2003	60	12	
Acenaphthylene	3333	3333	40	140	30	0	1914	57	2078	62	8	
Acenaphthene	3333	3333	40	140	30	0	1879	56	2027	61	8	
Fluorene	3333	3333	40	140	30	0	2029	61	2128	64	5	
Phenanthrene	3333	3333	40	140	30	0	2192	66	2201	66	0	
Anthracene	3333	3333	40	140	30	0	2190	66	2157	65	2	
Fluoranthene	3333	3333	40	140	30	0	2270	68	2235	67	2	
Pyrene	3333	3333	40	140	30	0	2240	67	2198	66	2	
Benzo[a]anthracene	3333	3333	40	140	30	0	2338	70	2239	67	4	
Chrysene	3333	3333	40	140	30	0	2280	68	2174	65	5	
Benzo[b] fluoranthene	3333	3333	40	140	30	0	2466	74	2254	68	9	
Benzo[k] fluoranthene	3333	3333	40	140	30	0	2389	72	2212	66	8	
Benzo[a] pyrene	3333	3333	40	140	30	0	2384	72	2295	69	4	
Indeno [1,2,3-cd] pyrene	3333	3333	40	140	30	0	2631	79	2461	74	7	
Dibenz [a,h] anthracene	3333	3333	40	140	30	0	2629	79	2337	70	12	
Benzo[ghi] perylene	3333	3333	40	140	30	0	2583	77	2366	71	9	

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

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

Comments: _____

EPH AROMATIC BREAKTHROUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: *N*
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Aliphatic LCS: L073012EASE
Aromatic LCS: L073012EASE

COMPOUND	LOWER	UPPER	ALIPHATIC	AROMATIC	%	
	LIMIT	LIMIT	RESULT (ug/mL)	RESULT (ug/mL)	BREAKTHROUGH	#
Naphthalene	0	5	0.00	12.5	0.0	
2-Methylnaphthalene	0	5	0.00	13.4	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 AROMATIC BREAKTHROUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: **N**
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG:
Aliphatic LCS: LD073012EASE
Aromatic LCS: LD073012EASE

COMPOUND	LOWER	UPPER	ALIPHATIC	AROMATIC	% BREAKTHROUGH #	
	LIMIT	LIMIT	RESULT (ug/mL)	RESULT (ug/mL)		
Naphthalene	0	5	0.00	14.4	0.0	
2-Methylnaphthalene	0	5	0.00	15.0	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 ALIPHATICS
 AQUEOUS LABORATORY CONTROL SAMPLE
 LABORATORY CONTROL SAMPLE DUPLICATE
 PERCENT RECOVERY

Instrument ID: N
 GC Column: ZB-5ms
 Column ID: 0.25 mm

SDG: 73421
 Non-spiked sample: B080212EW
 Spike: L080212EW
 Spike duplicate: LD080212EW

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	13	51		13	53		4	
C-10	25	40	140	25	0.0	15	60		16	62		3	
C-12	25	40	140	25	0.0	17	66		18	71		6	
C-14	25	40	140	25	0.0	18	70		19	77		9	
C-16	25	40	140	25	0.0	18	73		20	81		10	
C-18	25	40	140	25	0.0	20	78		21	84		7	
C-19	25	40	140	25	0.0	18	71		19	76		6	
C-20	25	40	140	25	0.0	20	80		22	86		7	
C-22	25	40	140	25	0.0	20	80		21	85		5	
C-24	25	40	140	25	0.0	20	80		21	85		6	
C-26	25	40	140	25	0.0	19	77		21	84		8	
C-28	25	40	140	25	0.0	18	72		20	81		11	
C-30	25	40	140	25	0.0	17	68		19	76		11	
C-36	25	40	140	25	0.0	10	42		11	44		6	

C9-C18 Aliphatics	150	40	140	25	0	100	67		107	71		7	
C19-C36 Aliphatics	200	40	140	25	0	143	71		154	77		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 AROMATICS
 AQUEOUS LABORATORY CONTROL SAMPLE
 LABORATORY CONTROL SAMPLE DUPLICATE
 PERCENT RECOVERY

Instrument ID: N
 GC Column: ZB-5ms
 Column ID: 0.25 mm

SDG: 73421
 Non-spiked sample: B080212EW
 Spike: L080212EW
 Spike duplicate: LD080212EW

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	14	56		14	58		3
2-Methylnaphthalene	25	40	140	20	0.0	15	59		16	63		8
Acenaphthylene	25	40	140	20	0.0	16	64		17	68		6
Acenaphthene	25	40	140	20	0.0	16	63		17	68		7
Fluorene	25	40	140	20	0.0	17	69		18	72		5
Phenanthrene	25	40	140	20	0.0	18	73		20	78		7
Anthracene	25	40	140	20	0.0	18	72		19	77		8
Fluoranthene	25	40	140	20	0.0	19	76		20	81		5
Pyrene	25	40	140	20	0.0	19	76		20	81		7
Benzo[a]anthracene	25	40	140	20	0.0	20	79		21	85		8
Chrysene	25	40	140	20	0.0	19	75		20	80		6
Benzo[b] fluoranthene	25	40	140	20	0.0	21	84		23	91		8
Benzo[k] fluoranthene	25	40	140	20	0.0	20	79		21	83		5
Benzo[a] pyrene	25	40	140	20	0.0	20	80		22	88		9
Indeno [1,2,3-cd] pyrene	25	40	140	20	0.0	23	90		24	96		6
Dibenz [a,h] anthracene	25	40	140	20	0.0	22	90		24	95		6
Benzo(g,h,i) perylene	25	40	140	20	0.0	22	87		23	91		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: _____

EPH AROMATIC BREAKTHROUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N

SDG:

GC Column: ZB-5ms

Aliphatic LCS: L080212EW

Column ID: 0.25 mm

Aromatic LCS: L080212EW

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	14.7	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 AROMATIC BREAKTHROUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG: 73421
Aliphatic LCS: LD080212EW
Aromatic LCS: LD080212EW

COMPOUND	LOWER	UPPER	ALIPHATIC	AROMATIC	% BREAKTHROUGH	
	LIMIT	LIMIT	RESULT (ug/mL)	RESULT (ug/mL)		#
Naphthalene	0	5	0.00	14.4	0.0	
2-Methylnaphthalene	0	5	0.00	15.9	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: N
 GC Column: ZB-5ms
 Column ID: 0.25 mm

SDG:
 Non-spiked sample: 73421-14
 Spike: 73421-14,MS
 Spike duplicate: 73421-14,MSD

COMPOUND	SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP		SPIKE DUP		RPD	
	ADDED	LIMIT	LIMIT	LIMIT	RESULT (ug/L)	RESULT (ug/L)	% REC	#	RESULT (ug/L)	% REC	#	RPD	#
C-9	25	30	140	25	0.0	13	51		13	51		0	
C-10	25	40	140	25	0.0	15	61		15	61		0	
C-12	25	40	140	25	0.0	17	68		17	69		2	
C-14	25	40	140	25	0.0	18	72		18	72		1	
C-16	25	40	140	25	0.0	19	76		19	77		0	
C-18	25	40	140	25	0.0	20	79		20	79		0	
C-19	25	40	140	25	0.0	18	71		18	72		2	
C-20	25	40	140	25	0.0	21	83		21	83		1	
C-22	25	40	140	25	0.0	20	81		20	81		0	
C-24	25	40	140	25	0.0	20	80		20	81		1	
C-26	25	40	140	25	0.0	20	80		20	81		1	
C-28	25	40	140	25	0.0	19	75		18	73		3	
C-30	25	40	140	25	0.0	18	72		17	69		4	
C-36	25	40	140	25	0.0	11	44		10	40		9	
C9-C18 Aliphatics	150	40	140	25	0.0	102	68		102	68		1	
C19-C36 Aliphatics	200	40	140	25	0.0	147	73		145	72		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: _____

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: 73721-14
 Spike: 73421-14,MS
 Spike duplicate: 73421-14,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	15	61		16	62		2	
2-Methylnaphthalene	25	40	140	50	0.0	16	65		17	66		2	
Acenaphthylene	25	40	140	50	0.0	18	71		18	72		2	
Acenaphthene	25	40	140	50	0.0	17	69		18	71		2	
Fluorene	25	40	140	50	0.0	18	74		19	75		2	
Phenanthrene	25	40	140	50	0.0	19	78		20	79		2	
Anthracene	25	40	140	50	0.0	19	75		19	78		3	
Fluoranthene	25	40	140	50	0.0	20	79		20	80		0	
Pyrene	25	40	140	50	0.0	20	79		20	79		0	
Benzo[a]anthracene	25	40	140	50	0.0	21	83		20	82		2	
Chrysene	25	40	140	50	0.0	20	78		20	78		0	
Benzo[b] fluoranthene	25	40	140	50	0.0	22	87		22	86		1	
Benzo[k] fluoranthene	25	40	140	50	0.0	20	80		20	82		2	
Benzo[a] pyrene	25	40	140	50	0.0	21	85		21	85		0	
Indeno [1,2,3-cd] pyrene	25	40	140	50	0.0	24	96		23	93		2	
Dibenz [a,h] anthracene	25	40	140	50	0.0	23	94		23	94		0	
Benzo(g,h,i) perylene	25	40	140	50	0.0	22	89		22	90		0	

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: _____

PCB
DATA SUMMARIES

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 8, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B105-S1

Lab Sample ID: 73421-3
Matrix: Solid
Percent Solid: 90
Dilution Factor: 1.1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/31/12
Analysis Date: 08/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	67	%

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.

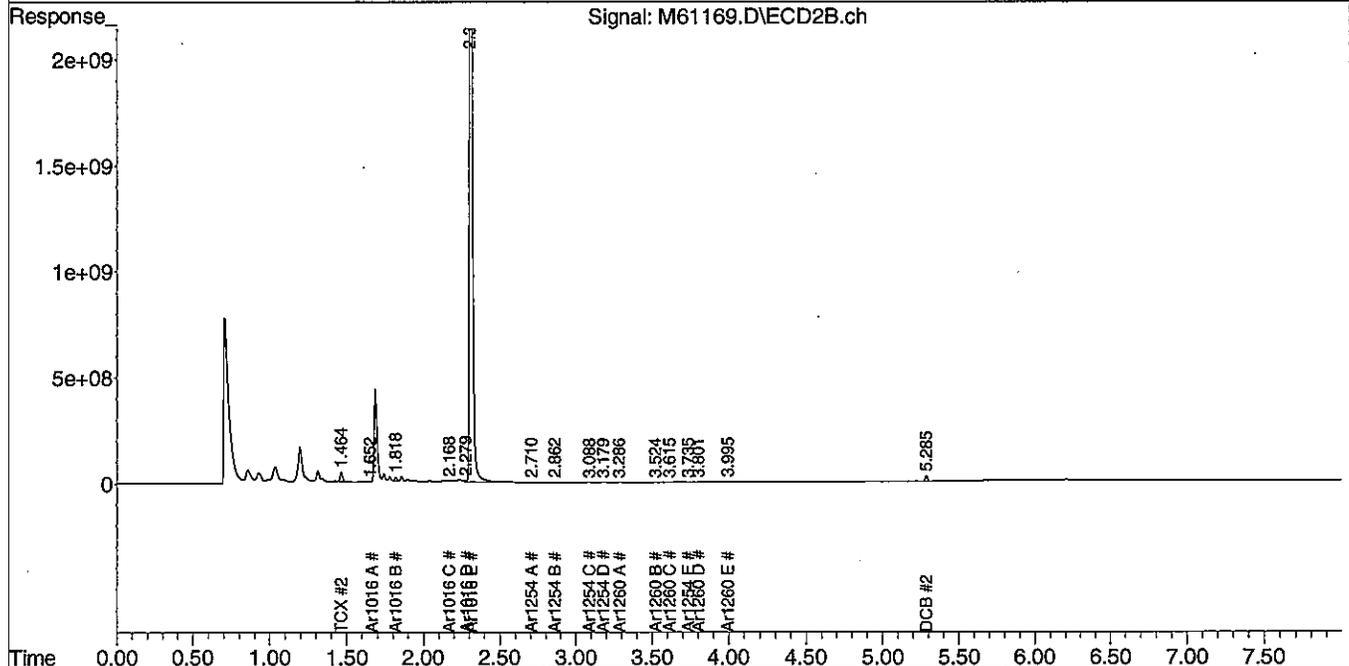
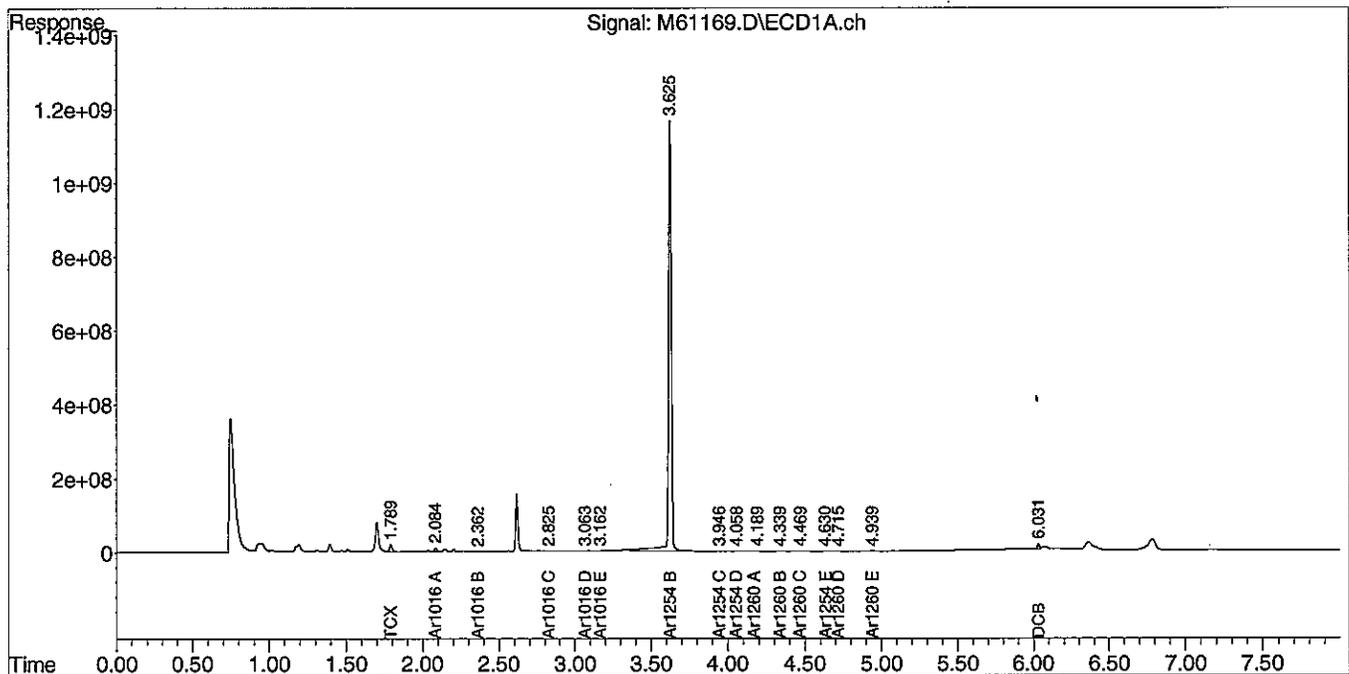
COMMENTS: Results are expressed on a dry weight basis.



Data Path : C:\msdchem\1\DATA\080712-M\
 Data File : M61169.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Aug 2012 1:52 pm
 Operator : JK
 Sample : 73421-3,,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 08 14:21:59 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



Mr. Erik Phenix
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Portland, ME 04101

August 8, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B106-S6

Lab Sample ID: 73421-4
Matrix: Solid
Percent Solid: 90
Dilution Factor: 1.1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/31/12
Analysis Date: 08/07/12

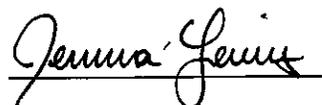
PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Results $\mu\text{g}/\text{kg}$
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	73	%
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.

COMMENTS: Results are expressed on a dry weight basis.

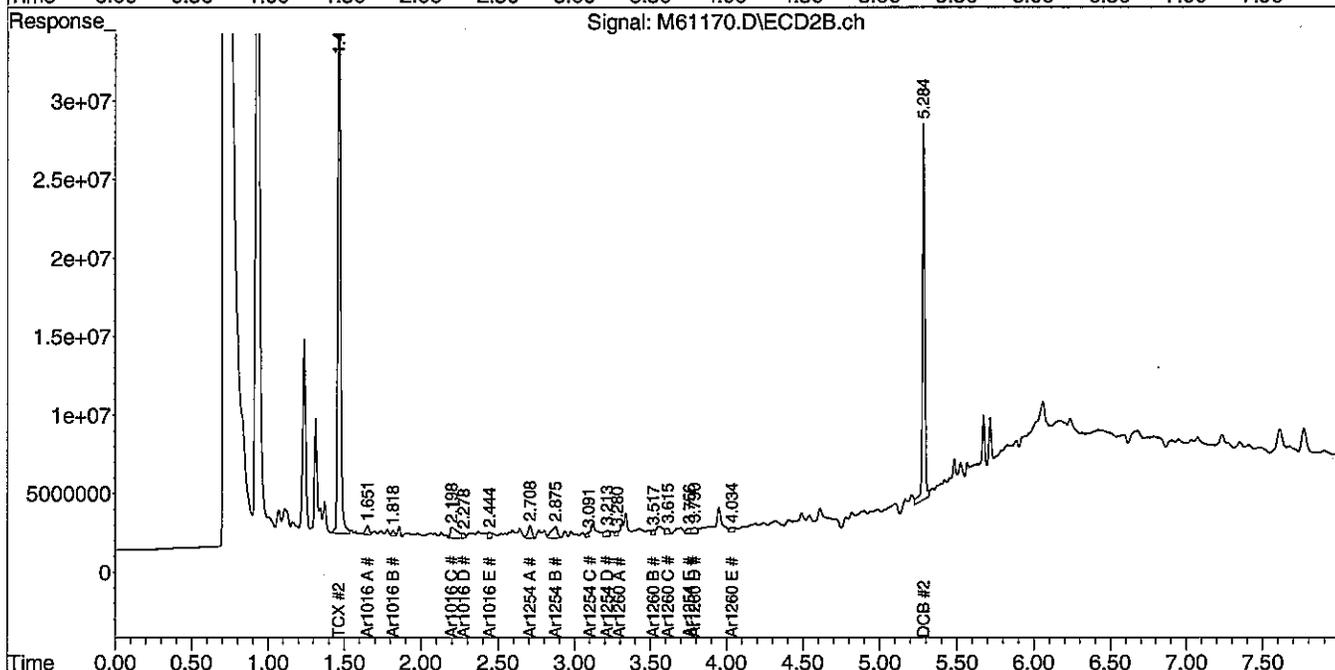
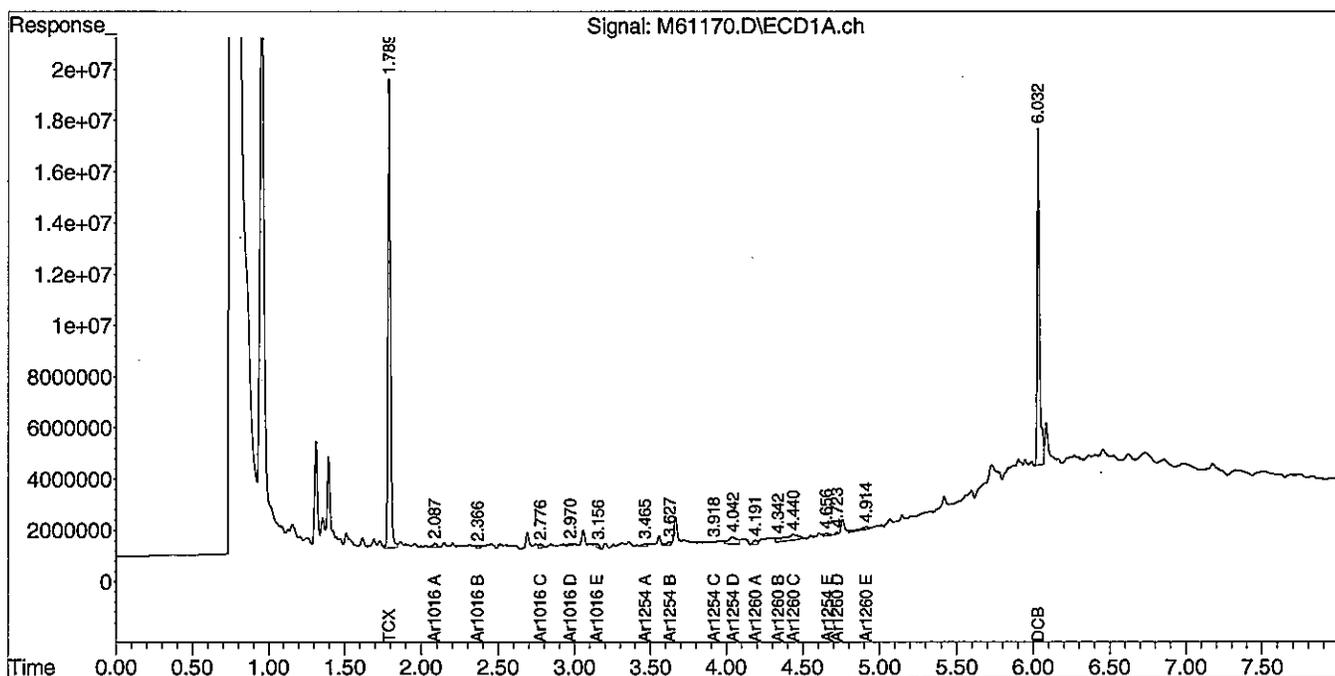
PCB Report

Authorized signature 

Data Path : C:\msdchem\1\DATA\080712-M\
 Data File : M61170.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Aug 2012 2:02 pm
 Operator : JK
 Sample : 73421-4,,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 08 14:18:27 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



Mr. Erik Phenix
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 Portland, ME 04101

August 8, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B107-S1

Lab Sample ID: 73421-5
Matrix: Solid
Percent Solid: 92
Dilution Factor: 1.1
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/31/12
Analysis Date: 08/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U
<u>Surrogate Standard Recovery</u>		
	2,4,5,6-Tetrachloro-m-xylene	81 %
	Decachlorobiphenyl	56 %
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.

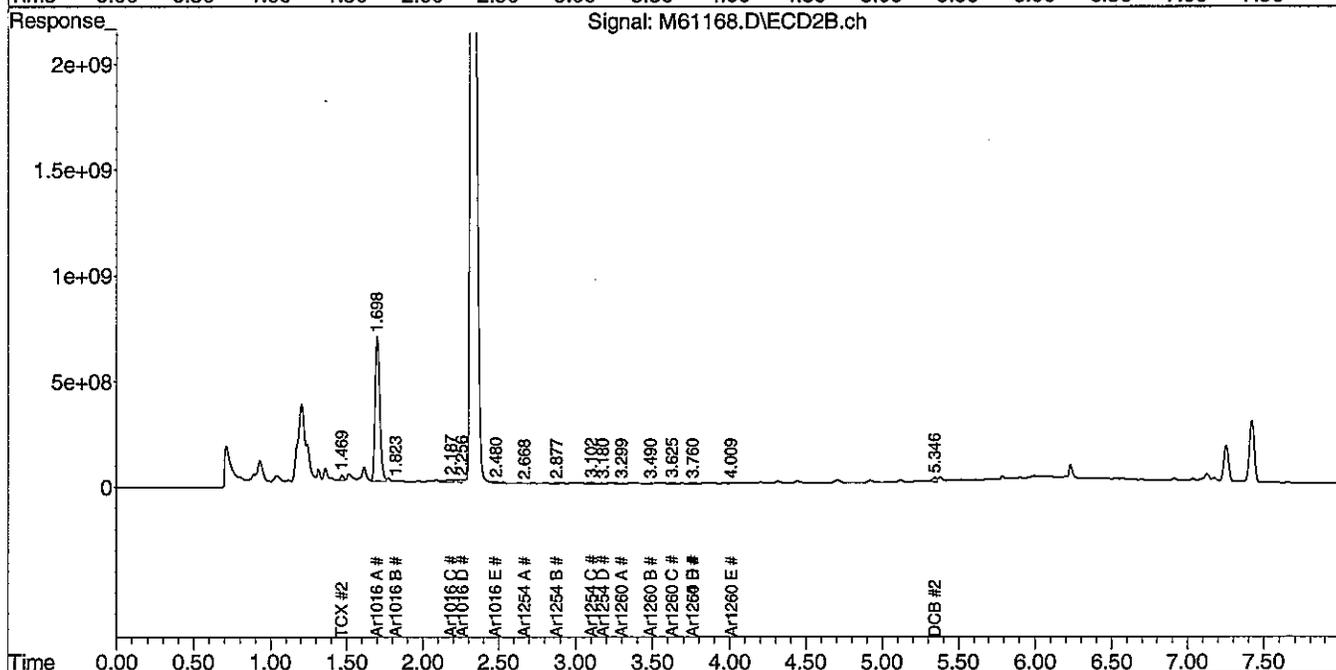
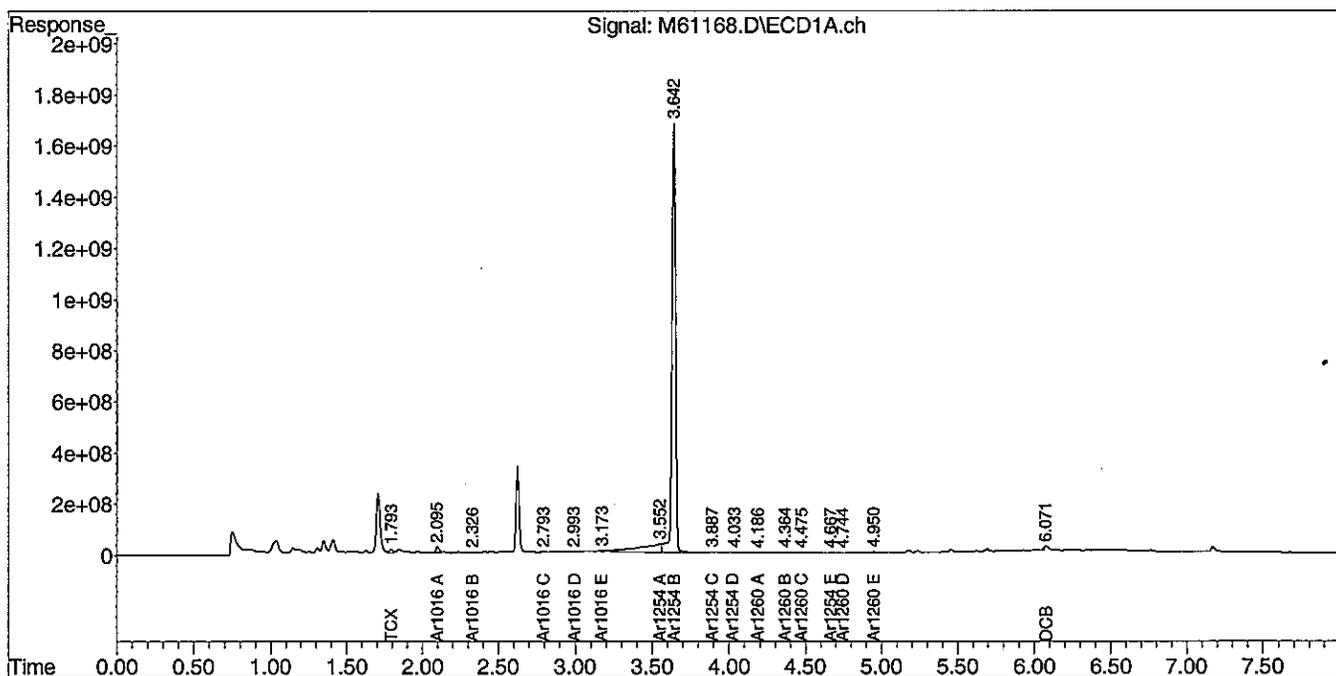
COMMENTS: Results are expressed on a dry weight basis.

Authorized signature 

Data Path : C:\msdchem\1\DATA\080712-M\
 Data File : M61168.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Aug 2012 1:42 pm
 Operator : JK
 Sample : 73421-5,,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 14:21:39 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 8, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B108-S1

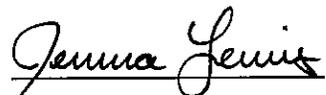
Lab Sample ID: 73421-6
Matrix: Solid
Percent Solid: 96
Dilution Factor: 1.0
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/31/12
Analysis Date: 08/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Results $\mu\text{g}/\text{kg}$
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	80	%
Decachlorobiphenyl	71	%
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.

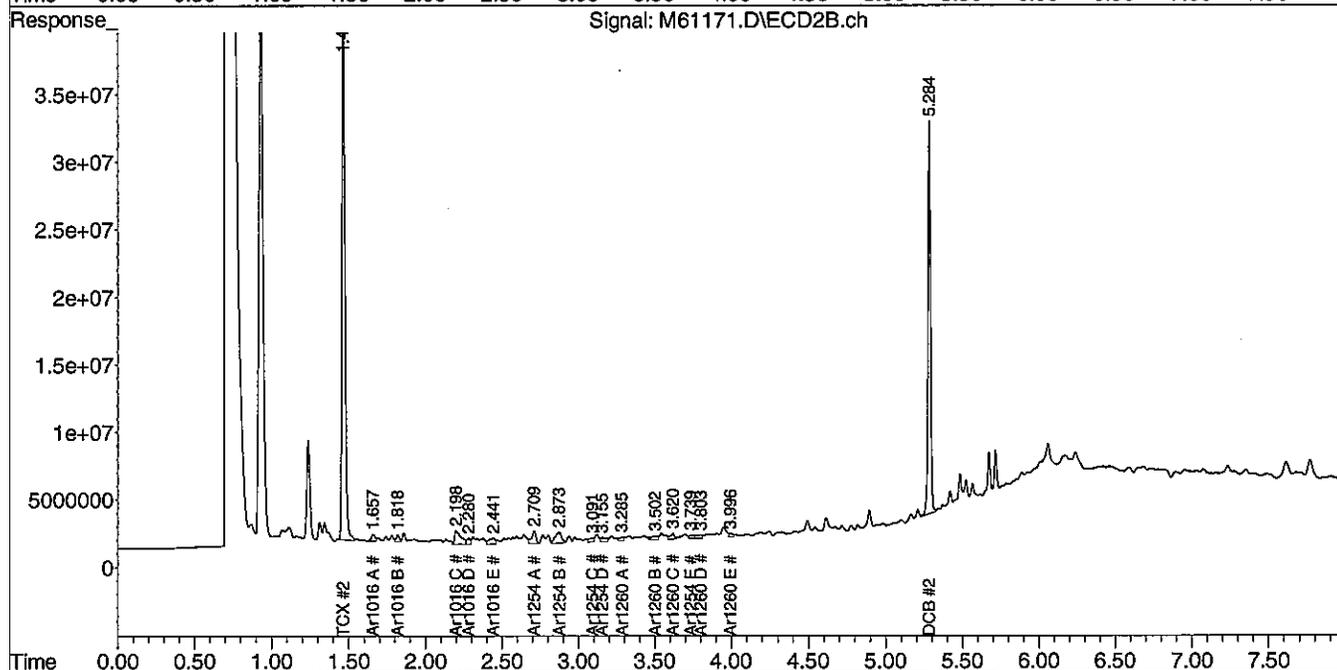
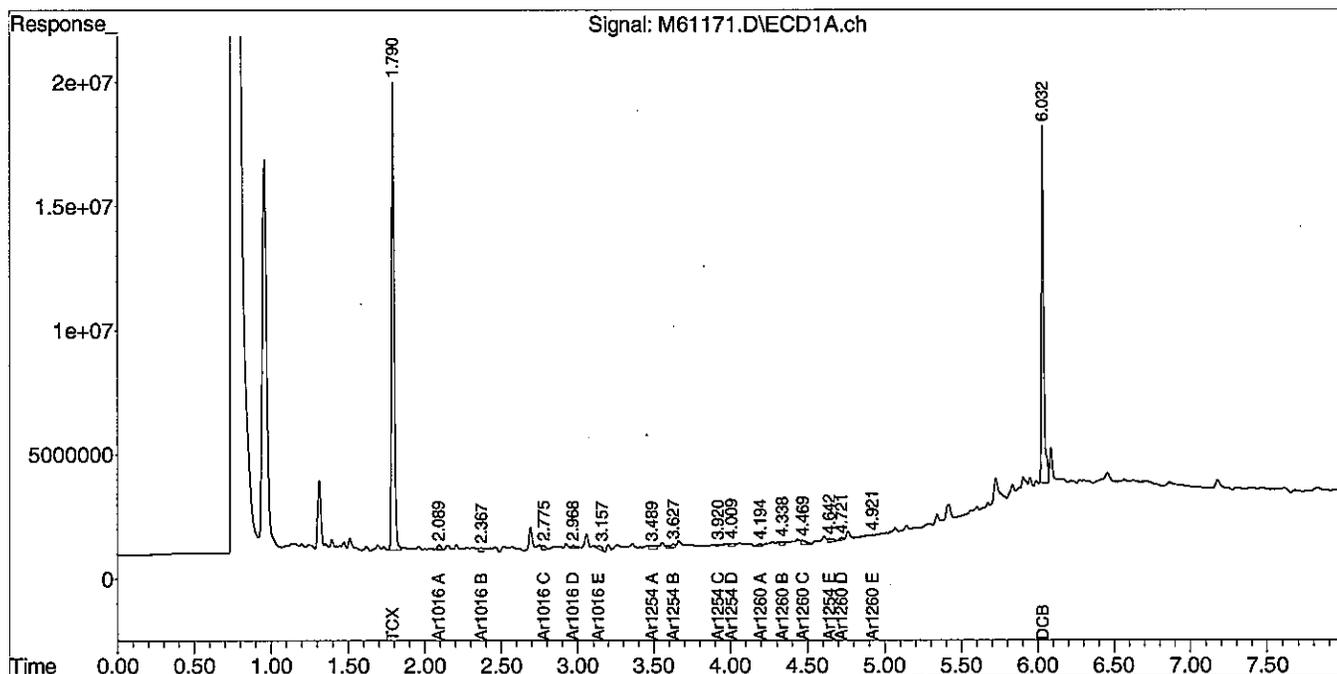
COMMENTS: Results are expressed on a dry weight basis.

Authorized signature 

Data Path : C:\msdchem\1\DATA\080712-M\
 Data File : M61171.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Aug 2012 2:12 pm
 Operator : JK
 Sample : 73421-6,,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 08 14:18:29 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 8, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: 29 Belmont Ave., Belfast
Project Number: 111.06134
Field Sample ID: B10X-S1

Lab Sample ID: 73421-18
Matrix: Solid
Percent Solid: 86
Dilution Factor: 1.2
Collection Date: 07/25/12
Lab Receipt Date: 07/26/12
Extraction Date: 07/31/12
Analysis Date: 08/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g}/\text{kg}$	Results $\mu\text{g}/\text{kg}$
PCB-1016	40	U
PCB-1221	40	U
PCB-1232	40	U
PCB-1242	40	U
PCB-1248	40	U
PCB-1254	40	U
PCB-1260	40	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	78	%
Decachlorobiphenyl	70	%
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.

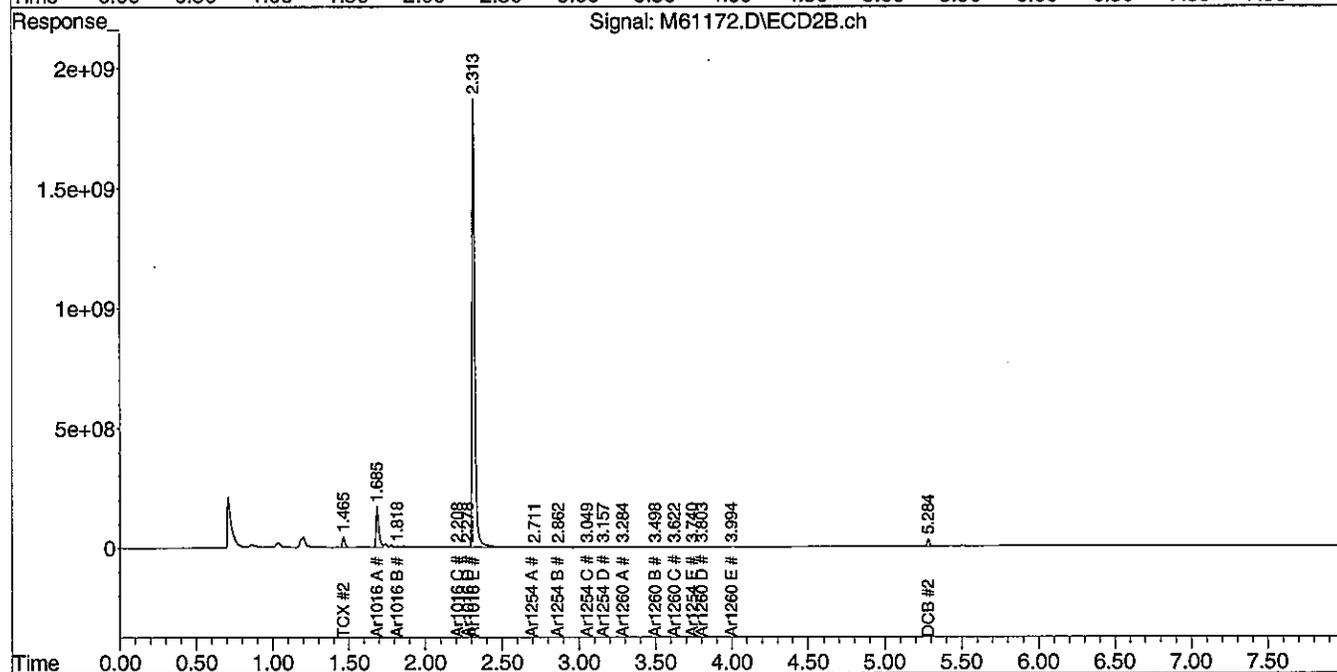
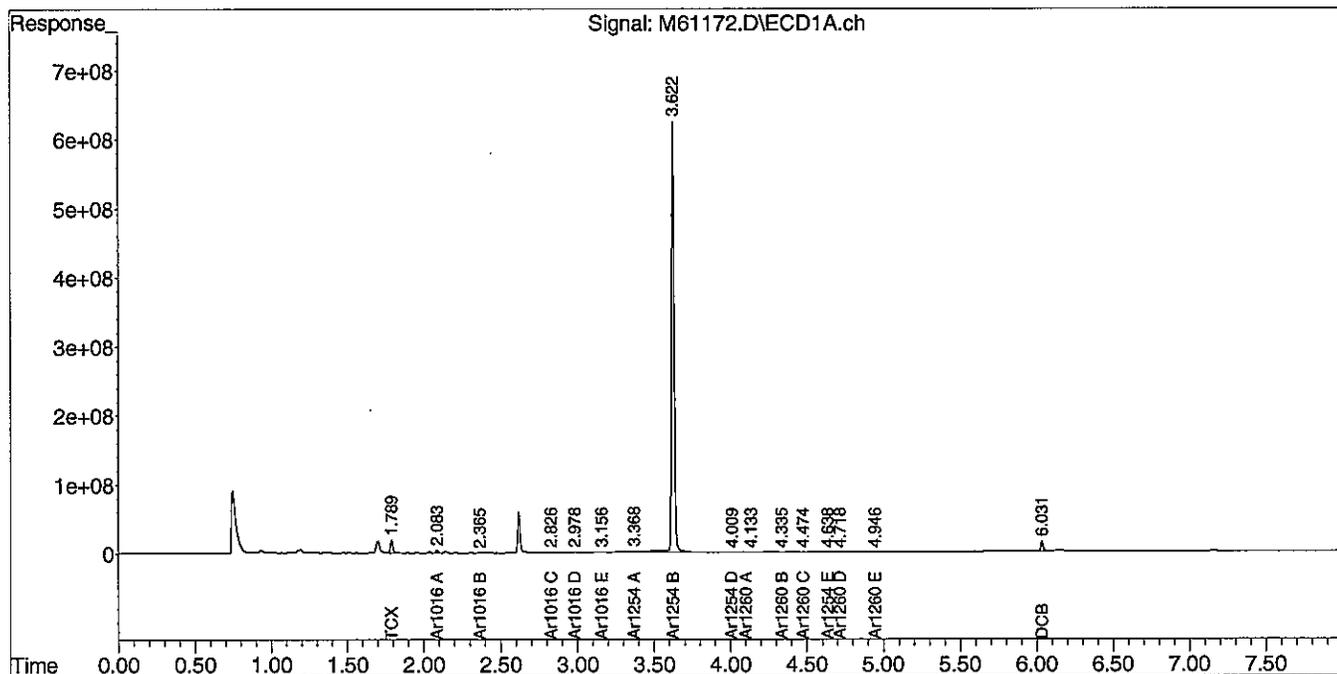
COMMENTS: Results are expressed on a dry weight basis.

Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\080712-M\
 Data File : M61172.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Aug 2012 2:22 pm
 Operator : JK
 Sample : 73421-18,,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 08 14:18:31 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
QC FORMS

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

August 8, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 29 Belmont Ave., Belfast

Project Number: 111.06134

Field Sample ID: Lab QC

Lab Sample ID: B073112PSOX RR

Matrix: Soil

Percent Solid: 100

Dilution Factor: 1.0

Collection Date:

Lab Receipt Date:

Extraction Date: 07/31/12

Analysis Date: 08/07/12

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	97	%
Decachlorobiphenyl	92	%
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.

COMMENTS: Results are expressed on a dry weight basis.

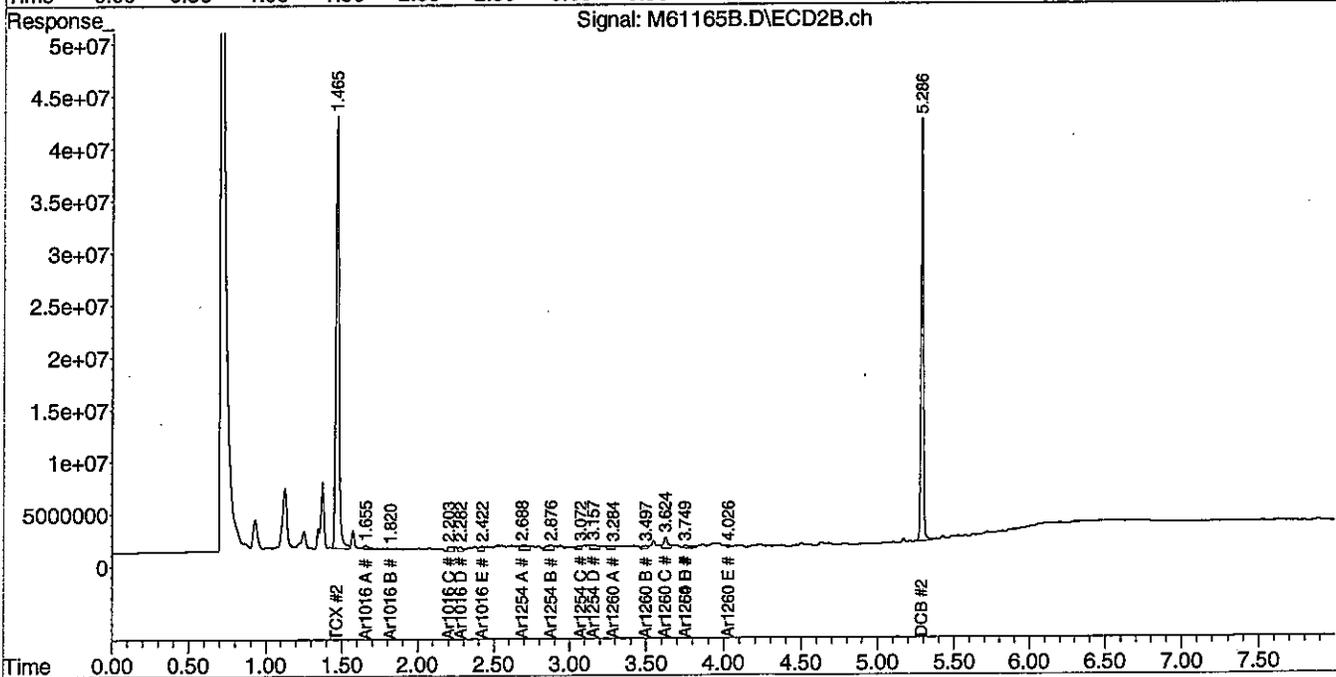
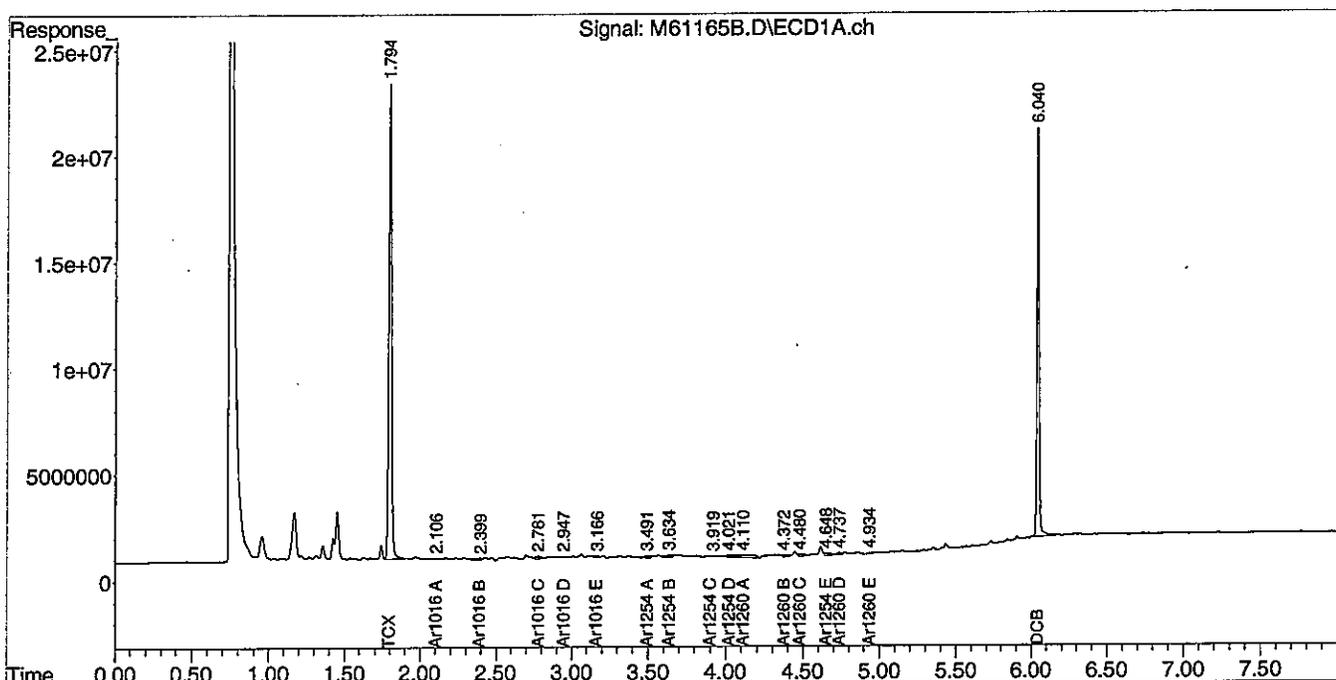
PCB Report

Authorized signature 

Data Path : C:\msdchem\1\DATA\080712-M\
 Data File : M61165B.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Aug 2012 1:12 pm
 Operator : JK
 Sample : B073112PSOX,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 14:18:17 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
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: 73421

Non-spiked sample: B073112PSOX,RR,,A/C

Spike: L073112PSOX,RR,,A/C

Spike duplicate: LD073112PSOX,RR,,A/C

COMPOUND	LCS SPIKE	LCSD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE		SPIKE DUP		SPIKE DUP		RPD	
	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	% REC	#
PCB 1016	200	200	60	140	30	0	160	80		135	67		17.1		
PCB 1260	200	200	60	140	30	0	168	84		137	68		20.7		
PCB 1016 #2	200	200	60	140	30	0	148	74		124	62		17.4		
PCB 1260 #2	200	200	60	140	30	0	169	84		131	66		24.8		

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

Client: Ransom Consulting, Inc.
 Project name: 29 Belmont Ave., Belfast
 Project NO: 111.06134

Sample ID: B101-S3

Report Date: 08/02/2012

SDG ID: 73421
 Lab ID: 73421-1
 Date Sampled: 07/25/12
 Date Received: 07/26/12
 Matrix: Solid
 % Solid: 79
 Method: 6010B
 Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Lead	12		mg/Kg	0.14	0.29	07/27/12	07/30/12	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

Client: Ransom Consulting, Inc.
 Project name: 29 Belmont Ave., Belfast
 Project NO: 111.06134

Sample ID: B103-S5

Report Date: 08/02/2012

SDG ID: 73421
 Lab ID: 73421-2
 Date Sampled: 07/25/12
 Date Received: 07/26/12
 Matrix: Solid
 % Solid: 91
 Method: 6010B
 Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Lead	6		mg/Kg	0.12	0.24	07/27/12	07/30/12	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

Client: Ransom Consulting, Inc.
 Project name: 29 Belmont Ave., Belfast
 Project NO: 111.06134

Sample ID: B105-S1

Report Date: 08/02/2012

SDG ID: 73421
 Lab ID: 73421-3
 Date Sampled: 07/25/12
 Date Received: 07/26/12
 Matrix: Solid
 % Solid: 90
 Method: 6010B
 Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	9.8*		mg/Kg	0.54	1.1	07/27/12	07/30/12	TD	1.00
Lead	12		mg/Kg	0.14	0.27	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
 Preparation: SW 846 3050B

Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: B106-S6

Report Date: 08/02/2012

SDG ID: 73421
Lab ID: 73421-4
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Solid
% Solid: 90
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	28*		mg/Kg	0.46	0.93	07/27/12	07/30/12	TD	1.00
Lead	4.8		mg/Kg	0.12	0.23	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW 846 3050B

Client: Ransom Consulting, Inc.
 Project name: 29 Belmont Ave., Belfast
 Project NO: 111.06134

Sample ID: B107-S1

Report Date: 08/02/2012

SDG ID: 73421
 Lab ID: 73421-5
 Date Sampled: 07/25/12
 Date Received: 07/26/12
 Matrix: Solid
 % Solid: 92
 Method: 6010B
 Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	16100*		mg/Kg	102	203	07/27/12	07/30/12	TD	250
Lead	214		mg/Kg	0.1	0.2	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
 Preparation: SW 846 3050B

Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: B108-S1

Report Date: 08/02/2012

SDG ID: 73421
Lab ID: 73421-6
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Solid
% Solid: 96
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	11*		mg/Kg	0.48	0.96	07/27/12	07/30/12	TD	1.00
Lead	7		mg/Kg	0.12	0.24	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW 846 3050B

Client: Ransom Consulting, Inc.
 Project name: 29 Belmont Ave., Belfast
 Project NO: 111.06134

Sample ID: BK1

Report Date: 08/02/2012

SDG ID: 73421
 Lab ID: 73421-8
 Date Sampled: 07/25/12
 Date Received: 07/26/12
 Matrix: Solid
 % Solid: 76
 Method: 6010B
 Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	23*		mg/Kg	0.61	1.2	07/27/12	07/30/12	TD	1.00
Lead	68		mg/Kg	0.15	0.31	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
 Preparation: SW 846 3050B

Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: BK2

Report Date: 08/02/2012

SDG ID: 73421
Lab ID: 73421-9
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Solid
% Solid: 74
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	20*		mg/Kg	0.63	1.3	07/27/12	07/30/12	TD	1.00
Lead	90		mg/Kg	0.16	0.31	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW 846 3050B



Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: BK3

Report Date: 08/02/2012

SDG ID: 73421
Lab ID: 73421-10
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Solid
% Solid: 76
Method: 6010B
Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	12*		mg/Kg	0.53	1.1	07/27/12	07/30/12	TD	1.00
Lead	146		mg/Kg	0.13	0.27	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
Preparation: SW 846 3050B

Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: MW101

Report Date: 07/31/2012

SDG ID: 73421
Lab ID: 73421-11
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Lead	0.006		mg/L	0.003	0.005	07/30/12	07/31/12	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 3005A



Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: MW102

Report Date: 07/31/2012

SDG ID: 73421
Lab ID: 73421-12
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Lead	U		mg/L	0.003	0.005	07/30/12	07/31/12	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 3005A



Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: MW103

Report Date: 07/31/2012

SDG ID: 73421
Lab ID: 73421-13
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.004	0.008	07/30/12	07/31/12	TD	1.00
Lead	U		mg/L	0.003	0.005	07/30/12	07/31/12	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 3005A

Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: MWX

Report Date: 07/31/2012

SDG ID: 73421
Lab ID: 73421-15
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.004	0.008	07/30/12	07/31/12	TD	1.00
Lead	U		mg/L	0.003	0.005	07/30/12	07/31/12	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 3005A

Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: Septic Tank

Report Date: 07/31/2012

SDG ID: 73421
Lab ID: 73421-16
Date Sampled: 07/25/12
Date Received: 07/26/12
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	0.03		mg/L	0.004	0.008	07/30/12	07/31/12	TD	1.00
Lead	0.054		mg/L	0.003	0.005	07/30/12	07/31/12	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 3005A

Client: Ransom Consulting, Inc.
 Project name: 29 Belmont Ave., Belfast
 Project NO: 111.06134

Sample ID: B10X-S1

Report Date: 08/02/2012

SDG ID: 73421
 Lab ID: 73421-18
 Date Sampled: 07/25/12
 Date Received: 07/26/12
 Matrix: Solid
 % Solid: 86
 Method: 6010B
 Preparation: 3050B

Metals Results

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	9.5*		mg/Kg	0.53	1.1	07/27/12	07/30/12	TD	1.00
Lead	13		mg/Kg	0.13	0.27	07/27/12	07/30/12	TD	1.00

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: * Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
 Preparation: SW 846 3050B

METALS
QC FORMS

AEL_Documents:_TopLevelOldServer:AEL Documents LLC:Pkg Dividers:METALSQC.doc

Client: Ransom Consulting, Inc.
 Project name: 29 Belmont Ave., Belfast
 Project NO: 111.06134

Sample ID: Lab QC

Report Date: 08/02/2012

SDG ID: 73421
 Lab ID: B072712MS
 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	0.005	0.01	07/27/12	07/30/12	TD	1
Lead	U		mg/Kg	0.001	0.003	07/27/12	07/30/12	TD	1

Qualifier Description: U = Undetected B = Detected in Blank J = Estimated Value E = Exceeds Calibration Range

Comments: *Element had high RPD's in LCS/LCSD.

Method Description: EPA Method 6010B Inductively Coupled Plasma - Atomic Emissions Spectrometry, Revision 2 December 1996.
 Preparation: SW 846 3050B

Client: Ransom Consulting, Inc.
Project name: 29 Belmont Ave., Belfast
Project NO: 111.06134

Sample ID: Lab QC

Report Date: 07/31/2012SDG ID: 73421
Lab ID: B073012MW
Date Sampled: NA
Date Received: NA
Matrix: Aqueous
% Solid: NA
Method: 6010B
Preparation: 3005A**Metals Results**

Analyte	Result	Qualifier	Units	LOD	LOQ	Prepared	Analyzed	Analyst	Dilution
Arsenic	U		mg/L	0.004	0.008	07/30/12	07/30/12	TD	1.00
Lead	U		mg/L	0.003	0.005	07/30/12	07/30/12	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 3005A

Metals
Laboratory Control Sample/

Percent Recovery

Method: 6010B
Matrix: Soil
Date Analyzed: 7/30/2012

SDG: 73432
Non-spiked Sample B072712MS
Spike: L072712MS
Spike Duplicate: LD072712MS

Analyte	Spike added	LCS Result	Unit	% Rec	Low Limit	High Limit
Arsenic	49.1	39.6	mg/kg	81%	32.4	65.8
Lead	82.8	73.1	mg/kg	88%	57.5	108

Analyte	Spike added	LCSD Result	Unit	% Rec	Low Limit	High Limit	RPD	RPD Limit
Arsenic	49.1	56.3	mg/kg	115%	32.4	65.8	35%	25
Lead	82.8	73.4	mg/kg	89%	57.5	108	0%	25

Metals
Laboratory Control Sample
Percent Recovery

Method: 6010B
Matrix: Aqueous
Date Analyzed: 7/30/2012

SDG: 73421
Non-spiked Sample B073012MW
Spike: L073012MW
Spike Duplicate: LD073012MW

Analyte	Spike added	LCS Result	Unit	% Rec	% Rec Limits
Arsenic	0.5	0.5366	mg/L	107%	80-120
Lead	0.5	0.5317	mg/L	107%	80-120

Analyte	Spike added	LCSD Result	Unit	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic	0.5	0.5473	mg/L	109%	80-120	2%	25
Lead	0.5	0.5400	mg/L	108%	80-120	2%	25

Metals
Matrix Spike/Duplicate
Percent Recovery

Method: 6010B
Matrix: Aqueous
Date Analyzed: 7/31/2012

SDG: 73421
Non-spiked Sample 73421-16
Spike: 73421-16 MS
Spike Duplicate: 73421-16 MSD

Analyte	Sample Result	Spike added	MS Result	MS Qualifier	Unit	% Rec	% Rec Limits
Arsenic	0.0304	0.5	0.5199		mg/L	98%	80-120
Lead	0.0537	0.5	0.5500		mg/L	99%	80-120

Analyte	Sample Result	Spike added	MSD Result	MSD Qualifier	Unit	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic	0.0304	0.5	0.5229		mg/L	99%	80-120	1%	25
Lead	0.0537	0.5	0.5530		mg/L	100%	80-120	1%	25

CHAIN OF CUSTODIES

Chain Of Custody Form

analytix environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytix Use Only

Samples were:
 1) Shipped or hand-delivered
 2) Temperature (°C): 1.4-2.4
 3) Received in good condition: Y or N
 4) pH checked by: Kdm
 5) Labels checked by: CL 7/26/12

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

Project Name: 29 Belmont Ave., Belfast
 Project#: 111.06134
 Company: Ransom Consulting
 Report to: Erik Phenix / Peter Sheen
 Address: 400 Commercial St.
Port-Hard, ME 04101
 Phone: 207-772-2891
 Quote #: _____
 PO# (if required): 4369

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N										Metals: RCRA8 P13 TAL23 Other**	Analytix Sample #			
			VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	OCB: 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	Lead	VPH Ranges only			Lead + Arsenic		
<u>B101-S5</u>	<u>7/25/12</u>	<u>8:35</u>															<u>73421-1</u>
<u>B102</u>	<u>7/25/12</u>																
<u>B103-S5</u>	<u>7/25/12</u>	<u>12:25</u>															<u>-2</u>
<u>B104</u>	<u>7/25/12</u>																
<u>B105-S1</u>	<u>7/25/12</u>	<u>9:10</u>															<u>-3</u>
<u>B106-S6</u>	<u>7/25/12</u>	<u>11:00</u>															<u>-4</u>
<u>B107-S1*</u>	<u>7/25/12</u>	<u>12:55</u>															<u>-5</u>
<u>B108-S1</u>	<u>7/25/12</u>	<u>1:30</u>															<u>-6</u>
<u>B109</u>	<u>7/25/12</u>																
<u>B110-S1</u>	<u>7/25/12</u>	<u>09:55</u>															<u>-7</u>

Comments, Additional Analyses, or Special Instructions:
 * EPA Brownfields Project
 * Contains for 4oz jars are labeled "B107" missing
 "-S1" - CL 7/26/12

Turnaround Time (TAT)
 24 Hours* 48 Hours*
 72 Hours* 5 Days*
 10 Days
 *Fee may apply/lab approval required

Report Type:
 MCP* Level II* Level III* Level IV* Standard
 CTRCP* DOD* RI

State Standard:
 State: NH MA ME CT RI
 (eg. S-1 or GW-1)
 EDD Required: Y N
 Type: MEPEP

Sampler Name (Print): Aaron Martin / Erik Phenix
 Relinquished By Sampler: [Signature]
 Relinquished By: _____
 Relinquished By: _____

Date: 7/26/12 Time: 1000
 Date: _____ Time: _____
 Date: _____ Time: _____

Received By: [Signature]
 Received By: _____
 Received By: _____

Chain Of Custody Form

195 Commerce Way, Suite E
 Portsmouth, NH 03801
 (800) 929-9906

analytics environmental laboratory LLC

For Analytics Use Only

Samples were:
 1) Shipped or ~~hand-delivered~~
 2) Temperature (°C): 1.4-2.4
 3) Received in good condition: or N
 4) pH checked by: KAVI on plastic comb
 5) Labels checked by: CP/Allyle

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	Circle and/or Write Required Analysis Followed by Preservation Code										Matrix	No. of Containers	pH checked	Analytics Sample #				
			VOC: 8260 524.2 624	SVC: 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	EPA: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 P13 TAL23 Other**	VOCs - Lead Scavengers					Lead + Arsenic	VPH Full	Lead	
BK1	7/25/12	8:10															S	2		73421-8
BK2	7/25/12	8:15															S	1		-9
BK3	7/25/12	8:20															S	1		-10
MW101	7/25/12	8:00															GW	7	1.0**	-11
MW102	7/25/12	10:20															GW	7	1.0**	-12
MW103	7/25/12	10:00	X														GW	10	1.2**	-13
MW104	7/25/12	10:30															GW	3	1.2**	-14
Quattro	7/25/12	10:30															GW			
Quattro	7/25/12	10:30															GW			
Quattro	7/25/12	10:30															GW	8	1.2**	-15

Project Name: 29 Belmont Ave., Belfast
 Project#: 111.06184
 Company: Ransom Consulting
 Report to: Erik Phenix / Peter Sherr
 Address: 400 Commercial St.
 Suite 404 Portland, ME 04101
 Phone: 207-772-2891
 Quote #: _____
 PO# (if required): 4369

Report Type:
 MCP*
 CTRCP*
 DOD*
 Level II*
 Level III*
 Level IV*
 Standard

State:
 NH
 MA
 ME
 CT
 RI
 Other: _____

State Standard:
 (eg. S-1 or GW-1)
 EDD Required: N
 Type: MEDEP

Project Requirements:
 *Fee may apply

Comments, Additional Analyses, or Special Instructions:
Lead Scavengers: 1,2-dichloroethane, chloro benzene, 1,3-dichloro benzene, 1,4-dichloro benzene, 1,2-dichloro benzene + 1,2-dibromoethane
EPA Brownfields Project
 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.

Sampler Name (Print): Aaron Mentis / Erik Phenix
 Relinquished By Sampler: [Signature]
 Relinquished By: _____
 Relinquished By: _____

Date: 7/26/12 Time: 1000
 Received By: [Signature]
 Date: _____ Time: _____
 Received By: _____
 Date: _____ Time: _____

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 hand-delivered
 2) Temperature (°C): 1.9 - 7.4
 3) Received in good condition: Y or N
 4) pH checked by: * HAND plastic only
 5) Labels checked by: CP 7/25/12

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	Please fill in preservation code here										Field Filtered? Y or N	pH: Full or Ranges only	pH: Full or Ranges only	Metals: RCRA8 P13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
			VOC: 8260 5242 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8083 608	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	TPH: Full or Ranges only	TPH: Full or Ranges only	Metals: RCRA8 P13 TAL23 Other**									
Septic Tank	7/25/12	1430	X													X	WW	7	1.5	73421-16
Trip Blank			X														GW	2		-17
BIOX-51	7/25/12	915	X													X	S	11		-18

Project Name: 29 Belmont Ave., Belfast
 Project#: 11.06134
 Company: Ransom Consulting
 Report to: Erik Phenix / Peter Sherr
 Address: 400 Commercial St., Suite 301
Portland, ME 04101
 Phone: 207-772-2891
 Quote #:
 PO# (if required): 4369

Preservation Key:
 A = HCL
 B = 4°C
 C = Unpres
 D = MeOH
 E = HNO3
 F = H2SO4
 G = Hexane
 H = Other

Comments, Additional Analyses, or Special Instructions:
EPA Braintree Project
* email results to: epa@ransomenv.com
epa@ransomenv.com
epa@ransomenv.com

Turnaround Time (TAT)
 24 Hours* 48 Hours*
 72 Hours* 5 Days*
 10 Days
 *Fee may apply; ins approval required

Project Requirements:
 *Fee may apply

Report Type:
 MCP* Level II* Level III* Level IV* Standard
 CTRCP* CT RI

State:
 NH MA ME CT RI Other: _____

State Standard:
 (eg. S-1 or GW-1)
 EDD Required: N
 Type: MEDEP

Sampler Name (Print): Aaron Martin / Erik Phenix
 Relinquished By Sampler: [Signature]
 Relinquished By: [Signature]
 Relinquished By: [Signature]

Date: 7/20/12 Time: 1000
 Date: _____ Time: _____
 Date: _____ Time: _____

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.



environmental
laboratory LLC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 73421

COOLER NUMBER: clients

CLIENT: Ransom

NUMBER OF COOLERS: 2

PROJECT: 29 Belmont Ave, Belfast

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): KAM

DATE COOLER RECEIVED/OPENED: 7-26-12

2. Circle one:

Hand delivered
(If so, skip 3)

Shipped

3. Did cooler come with a shipping slip?

Y

NA

3a. Enter carrier name and airbill number here:

4. Were custody seals on the outside of cooler?

Y

NA

How many & where:

Seal Date:

Seal Name:

5. Did the custody seals arrive unbroken and intact upon arrival?

Y

NA

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:

1.9-2.4°C

B. Log-In: Date samples were logged in:

7-26-12

By: KAM

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 some dates missing

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?

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 some 1:1 HCl preserved vials outside expiration date

20. Were VOA samples absent of greater than pea-sized bubbles?

Y

N*

(Note: Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatile data.)

*If NO, List Sample ID's, Lab #s:

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): Q

Date: 7/26/12