EnviroTrac
Environmental Services

MAG910212
G.P.

March 10, 2006

United States Environmental Protection Agency
RGP – NOI Processing
1 Congress Street
Boston, Massachusetts 02114-2023

MAR 13 2006

Re: Remediation General Permit (RGP) – Notice of Intent (NOI)
Former Seekonk Wine and Spirits
Future Amerada Hess Station
1 Progress Street
Seekonk, Massachusetts 02771

To Whom It May Concern;

At the request of Amerada Hess Corporation (Hess), EnviroTrac Ltd (EnviroTrac) is submitting the attached RGP-NOI for the above-referenced location, referred to as the "site". This RGP-NOI pertains to a Category III-Contaminated Construction Dewatering, sub category A-General Urban Fill Sites. The NOI-RGP form is included as **Attachment A**. The site is currently a retail liquor store, which will be developed into a Hess retail gasoline station and convenience store. Temporary construction dewatering will be required to facilitate the installation of underground storage tanks (USTs) and other structures. A Phase I Due Diligence investigation revealed groundwater to be located at 6-7 feet below grade surface. Excavations to approximately 15' below grade surface will be required for the UST installation. The location of the site and discharge receiving waters are depicted on **Figure 1**. Also attached is the proposed site layout plan, prepared by Bohler Engineering P.C., which depicts the future Hess Station showing the catch basin where the discharge is proposed to occur.

During the construction dewatering process, groundwater will be pumped from the excavation(s) into a fractionation tank for settlement, and then pumped through bag filters before treatment via (2) 1,000-pound liquid phase carbon units. A schematic drawing, provided by the vendor, is included in **Attachment B**. The treated effluent will be discharged via the catch basin on Progress Street, which discharges to the Runnins River, which discharges to the Barrington River, which ultimately discharges to the Warren River into Naragansett Bay. The average discharge rate of treated groundwater is anticipated to be 30 gallons-per-minute.

On February 16, 2006, a groundwater sample was obtained from a monitoring well installed as part of the Phase I due diligence investigation. Based on the results of the February 16, 2006 Analytical Results, methyl-tert-butyl ether (MTBE) was detected. The following metals were also detected; chromium III, copper, lead, nickel, zinc and iron. Supplemental sampling data results for arsenic and selenium are included in the laboratory report for samples collected on August 4, 2005.

The following detected metals; chromium III, copper, lead, nickel, zinc and iron were reported at concentrations exceeding the applicable Effluent Limitations published in Appendix III of the RGP under the National Pollutant Discharge Elimination System (NPDES) for Discharges in Massachusetts. Based upon a review of the United States Geological Survey (USGS) Stream

1400 Providence Highway, Suite 2100, Norwood, MA 02062 (781) 769-5005 Fax: (781) 769-9345

Flow database and the Massachusetts Riverways Project, there are no published 7Q10 values for the Runnins, Barrington or Warren Rivers. Therefore, the dilution factor range of 0-5 was used for comparison to the discharge ceiling limits for the detected metals.

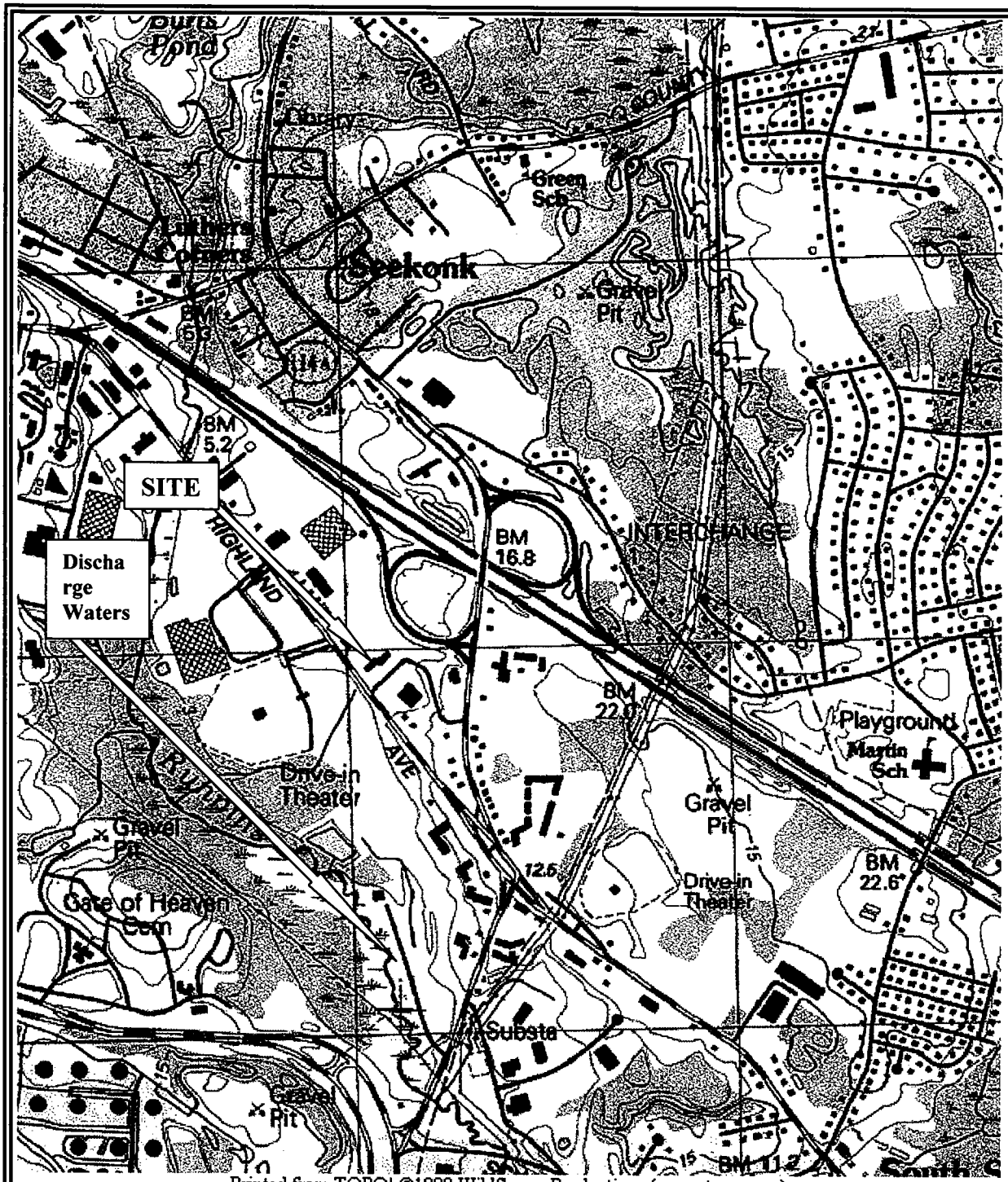
Since the property operations do not contribute to the release of these metals, they are likely to occur naturally, In addition, the Runnins River is listed as a 303D water body for lead and pathogens. If the EPA requires the treatment of these metals prior to discharge, then other alternatives will be evaluated and presented. The laboratory analytical reports supporting this submittal are included in **Attachment C**.

If you have any questions or require further information, please contact the undersigned at (781) 769-5005.

Sincerely,
EnviroTrac Ltd.

Susan Cahalan-Roach, P.G.
Geologist/Project Manager

FIGURES



Printed from TOPO! ©1998 Wildflower Productions (www.topo.com)

Seekonk Wine and Spirits
1 Progress Street
Seekonk, Massachusetts

Contour Interval 3 Meters

Long: 71°20'00"W
Lat: 41°48'00"N

N
W E
S

FIGURE 1

SITE LOCUS MAP
UNITED STATES GEOLOGICAL SURVEY
EAST PROVIDENCE
RHODE ISLAND, 7.5 MINUTE SERIES

EnviroTrac

ZONING ANALYSIS TABLE

ZONE CRITERIA	REQUIRED	EXISTING	PROPOSED
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	

ATTACHMENT A

Appendix V: Notice of Intent (NOI), Notice of Change (NOC), and Notice of Termination (NOT) Suggested Forms & Instructions

I. Suggested Notice of Intent (NOI) Form

In order to be covered by the remediation general permit (RGP), applicants must submit a written Notice of Intent (NOI) to EPA Region I and the appropriate state agency. **All parties meeting the definition of "operator" must fill out, sign, and submit separate NOIs.**

The "operator" is defined in Part I.B.1. as the person[1] who has operational control over plans and specifications, or the person who has day-to-day supervision and control of activities occurring at the site. For purposes of this permit, the operator is either:

i. The owner[2] (e.g., title holder, developer, or easement holder of the property) if that entity is performing all work related to complying with this permit; **or**

ii. Both the owner[2] (e.g., title holder, developer, or easement holder of the property) and contractor(s) if a contractor(s) has been hired to perform work related to complying with this permit.

This means that each party meeting the definition of operator should apply for coverage under the RGP if it has operational control over either the project site plans and specifications, including the ability to make modifications to those plans and specifications (e.g., the property owner), **or** has day-to-day operational control of those activities at a project which are necessary to ensure compliance with permit conditions (e.g., the contractor). Where a party's activity is part of a larger common plan (e.g., for the development or sale of the property), that party is only responsible for applying for the portions of the project for which it meets the definition of "operator." In many instances, there may be more than one party at a site performing tasks related to "operational control" and hence, more than one operator must submit an NOI. Depending on the site and the relationship between the parties (e.g., owner, contractor, etc.), there could be either a single party acting as site operator and consequently responsible for obtaining permit coverage, or there could be two or more operators all needing permit coverage.

The following are three general **"operator"** scenarios (variations on any of these three are possible, especially as the number of owners and contractors increases):

- *"Owner" as "Operator" - sole permittee.* The property owner designs the structures and control systems for the site, develops and implements the BMPP, and serves as general contractor (or has an on-site representative with full authority to direct day-to-day operations). Under the definition of operator, in this case, the "Owner" would be considered the "operator" and therefore the only party that needs permit coverage. Everyone else working on the site may be considered subcontractors and do not need to apply for permit coverage.

---

[1] Defined in 40 CFR 122.2.

[2] For purposes of this permit, the "owner" of a property is the person, as defined by 40 CFR 122.2, holding the title, deed, or legal document to the regulated property, facility, or activity, including a party working under an easement on the property.

- *"Contractor" as "Operator" - sole permittee.* The property owner hires a company (e.g., a contractor) to design the project and oversee all aspects, including preparation and implementation of the BMPP and compliance with the permit (e.g., a "turnkey" project). Here, the contractor would likely be the only party needing a permit. It is under this scenario that an individual having a personal residence built for his own use (e.g., not those to be sold for profit or used as rental property) would not be considered an operator. Similarly, EPA expects that property owners hiring a contractor or consultant to perform groundwater remediation work (e.g., due to a leaking fuel oil tank) would come under this type of scenario. EPA believes that the contractor, being a professional in the industry, should be the responsible entity rather than the individual. The contractor is better equipped to meet the requirements of both applying for permit coverage and developing and properly implementing the plans needed to comply with the permit. However, property owners would also meet the definition of "operator" and require permit coverage in instances where they perform any of the required tasks on their personal properties.

- *"Owner" and "Contractor" as "Operators" - co-permittees.* The owner retains control over any changes to site plans, BMPPs, or wastewater conveyance or control designs, but the contractor is responsible for conducting and overseeing the actual activities (e.g., excavation, installation and operation of treatment train, etc.) and daily implementation of BMPP and other permit conditions. In this case, **both** parties need to apply for coverage.

Generally, a person would not be considered an "operator," and subsequently would not need permit coverage, if: 1) that person is a subcontractor hired by, and under the supervision of, the owner or a general contractor (e.g., if the contractor directs the subcontractor's activities on-site, it is probably not an operator); or 2) the person's activities would otherwise result in the need for coverage under the RGP but another operator has legally assumed responsibility for the impacts of project activities.

A. Instructions for the Suggested Notice of Intent (NOI) - At a minimum, the Notice of Intent must include the following for each individual facility or site. Additional information may be attached as needed.

1. General facility/site information.

a) Provide the **facility/site** name, mailing address, and telephone and fax numbers. Provide the facility SIC code(s). Provide the site location, including longitude and latitude.
b) Provide the property **owner's** name, address, email address, telephone and fax numbers, if different from the site information. Indicate whether the owner is a Federal, State, Tribal, private, or other entity.
c) Provide the site **operator's** (e.g., contractor's) name, mailing address, telephone and fax numbers, and email address if different from the owner's information.
d) For the site for which the application is being submitted, indicate whether:
1) a prior NPDES permit exclusion has been granted for the discharge (if so, provide the tracking number of the exclusion letter);

2) a prior NPDES application (Form 1 & 2C) has ever been filed for the discharge (if so, provide the tracking number and date that the application was submitted to EPA);
3) the discharge is a "new discharge" as defined by 40 CFR 122.2; and
4) for sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting.

e) Indicate whether there is any ongoing state permitting, licensing, or other action regarding the facility or site which is generating the discharge. If "yes," provide any site identification number assigned by the state of NH or MA, any permit or license number assigned, and the state agency contact information (e.g. name, location, telephone no.).

f) Indicate whether or not the facility is covered by other EPA permits including: the multi-sector storm water general permit; the Phase I or II Construction Storm Water General Permit; an individual NPDES permit; or, any other water quality-related individual or general permit. If so, provide permit tracking number(s).

2. Discharge information.

a) Describe the discharge activities to be covered by the permit. Attach additional sheets as needed.

b) Provide the following information about each discharge:
1) the number of discharge points;
2) the **maximum** and **average flow rate** of the discharge in cubic feet per second. For the average flow magnitude, include the units and appropriate notation if this value is a calculated design value or estimate if technical/design information is not available;
3) the latitude and longitude of each discharge with an accuracy of 100 feet (see EPA's siting tool at: http://www.epa.gov/tri/report/siting_tool/);
4) the total volume of potential discharge (gal), only if hydrostatic testing;
5) indication whether the discharge(s) is intermittent or seasonal and if ongoing.

c) Provide the expected start and end dates of discharge (month/day/year)

d) Attach a line drawing or flow schematic showing water flow through the facility including:
1) sources of intake water;
2) contributing flow from the operation;
3) treatment units; and
4) discharge points and receiving waters(s).

3. Contaminant information. In order to complete section I.3. of the NOI, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. The applicant may use historical data as a substitute for the new sample if the data was collected no more than 2 years prior to the effective date of the permit and if collected pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, and was analyzed with the test methods required by this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must indicate which of the sub-categories (listed in Table V of Part I.C of the permit) that the potential discharge falls within.
b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge.

Based on the required sampling and analysis, the applicant must fill in the table, or provide a narrative description, with the following additional information for each chemical that is **believed present**:

1) the number of samples taken (minimum of one sample);
2) the type of sample (e.g. grab, composite, etc.);
3) the analytical method used, including the method number;
4) the minimum level (ML) of the method used (based on Appendix VI);
5) the maximum daily amount (concentration, ug/l, and mass, kg) of each pollutant, based on the sampling data (see Appendix VIII instructions for sample mass calculations); and
6) the average daily amount (concentration and mass) of each pollutant, based on the sampling data.

If the results of the required sampling indicate that pollutants exist in addition to those listed in Appendix III of the RGP of the permit, the applicant must also describe those contaminants on the NOI in boxes in section I.3.b) on the line marked "Other," or using additional sheets as needed. Subsequently, EPA will decide if the RGP can apply or if an individual permit is necessary.

c) Determination of Reasonable Potential and Allowable Dilution for Discharges of Metals:
If any ***metals*** are believed present in the potential discharge to freshwater[3], the applicant must follow the 2 step calculation procedures described below to determine the reasonable potential for exceedance of water quality standards and dilution factor for each metal.

Step 1: Initial Evaluation

1) The applicant must evaluate all metals believed present in the discharge subject to this permit, including "naturally occurring" metals such as dissolved and/or total Iron. Applicants must enter the highest detected concentration of the metal at zero dilution in the "Maximum value" column of the NOI.

2) Based on the maximum concentration of each metal, the applicant must perform an initial evaluation assuming zero dilution in the receiving water. The applicant must compare the metals concentrations in the untreated (intake) waters to the limits contained in Appendix III.

i. If potential discharges (untreated influent) with metals contain concentrations above the concentration limits listed in Appendix III , applicant must proceed to step 2.

[3]Dilution factors may be available for discharges to saline waters but only with approval of the flow modeling information from the State prior to the submission of the NOI.

ii. If potential discharges (untreated influent) with metals contain concentrations below the concentrations listed in Appendix III, the applicant may skip step 2 and those metals will **not** be subject to permit limitations or monitoring requirements.

Step 2: Calculation of Dilution Factor

1) **For applicants in NH**: If a metal concentration in a potential discharge (untreated influent) to **freshwater**[3] exceeds the limits in Appendix III with zero dilution, the applicant shall evaluate the potential concentration considering a dilution factor (DF) using the formula below. **For sites in New Hampshire, the applicant must contact NH DES to determine the 7Q10 and dilution factor.**

$$DF = [(Qd + Qs)/Qd] \times 0.9$$

Where:

DF	**= Dilution Factor**
Qd	**= Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm = .00223 cfs)**
Qs	**= Receiving water 7Q10 flow, in cfs, where,**
7Q10	**= The annual minimum flow for 7 consecutive days with a recurrence interval of 10 years**
0.9	**= Allowance for reserving 10% of the assets in the receiving stream as per Chapter ENV-Ws 1700, Surface Water Quality Regulations**

i. Using the DF calculated from the formula above, the applicant must refer to the corresponding DF range column in Appendix IV. The applicant then compares the maximum concentration of the metal entered on the NOI to the corresponding total recoverable metals limits listed in Appendix IV.

1. If a metal concentration in the potential discharge (untreated influent) is less than the corresponding limit in Appendix IV, the metal will **not** be subject to permit limitations or monitoring requirements.
2. If a metal concentration in the potential discharge (untreated influent) is equal to or exceeds the corresponding limit in Appendix IV, the applicant must reduce it in the effluent to a concentration below the applicable total recoverable metals limit in Appendix IV prior to discharge.

ii. In either case, the applicant must submit the results of this calculation as part of the NOI. EPA and NH DES will review the proposed effluent limitations for each metal and approve or disapprove the limits in the notification of coverage letter to the applicant.

2) **For applicants in MA**: If a metal concentration in a in a potential discharge (untreated influent) to **freshwater**[3] exceeds the limits in Appendix III with zero dilution, the applicant must evaluate the potential concentration considering a dilution factor (DF) using the formula below.

DF = (Qd + Qs)/Qd

Where:	**DF**	**= Dilution Factor**
	Qd	**= Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm = .00223 cfs)**
	Qs	**= Receiving water 7Q10 flow (cfs) where,**
	7Q10	**= The minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years**

i. The applicant may estimate the 7Q10 for a receiving water by using available information such as nearby USGS stream gauging stations directly or by application of certain "flow factors," using historic streamflow publication information, calculations based on drainage area, information from state water quality offices, or other means. In many cases the states of MA have calculated 7Q10 information using "flow factors" for a number of streams in the state. The source of the low flow value(s) used by the applicant must be included on NOI application form. Flow data can also be obtained from web applications such as STREAMSTATS located at: http://ma.water.usgs.gov/streamstats/.

ii. Using the DF calculated from the formula above, the applicant must refer to the corresponding DF range column in Appendix IV. The applicant then compares the maximum concentration of each metal entered on the NOI to the corresponding total recoverable metals limit listed in Appendix IV.

1. If a metal concentration in the potential discharge (untreated influent) is less than the corresponding limit in Appendix IV, the metal will **not** be subject to permit limitations or monitoring requirements.
2. If a metal concentration in a potential discharge (untreated influent) is equal to or exceeds the corresponding limit in Appendix IV, the applicant must reduce it in the effluent to a concentration below the applicable total recoverable metals limit in Appendix IV prior to discharge.

iii. The applicant must submit the results of this calculation as part of the NOI. EPA (and MA DEP where the discharge not covered by 310 CMR 40.0000) will review the proposed effluent limitations for each metal and approve or disapprove the limits in the notification of coverage letter to the applicant.

4. Treatment system information.

a) Describe the treatment train for each discharge and attach a schematic of the proposed or existing treatment system.

b) Identify each major treatment unit (e.g. frac tanks, filters, air stripper, liquid phase/vapor phase activated carbon, oil/water separators, etc.) by checking all that apply and describing any additional equipment not listed. Provide a written description of how the system train will be set up. Attach additional sheets as needed.

c) Provide the proposed **average** and **maximum flow** rates (in gallons per minute, gpm) for the discharge and the **design flow** rates (in gpm) of the treatment system. Clearly identify the component of the treatment with the most limited flow, i.e., the part of the treatment train that establishes the **design flow**.
d) Describe any chemical additives being used, or planned to be used, and attach MSDS sheets for each. EPA may request further information regarding the chemical composition of the additive, potential toxic effects, or other information to insure that approval of the use of the additive will not cause or contribute to a violation of State water quality standards. Approval of coverage under the RGP will constitute approval of the use of the chemical additive(s). If coverage of the discharge under the RGP has already been granted and the use of a chemical additive becomes necessary, the permittee must submit a Notice of Change (NOC).

5. Receiving surface water(s) information.
a) Identify the discharge pathway by checking whether it is discharged: directly to the receiving water, within the facility (e.g., through a sewer drain), to a storm drain, to a river or brook, to a wetland, or other receiving body.
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters into which discharge will occur.
c) Provide a detailed map(s) indicating the location of the site and outfall to the receiving water:
1) For multiple discharges, the discharges should be numbered sequentially.
2) In the case of indirect dischargers (to municipal storm sewer, etc) the map(s) must be sufficient to indicate the location of the discharge to the indirect conveyance and the discharge to the state classified surface water. The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.
d) Provide the state water quality classification of the receiving water and the basin;
e) Specify the reported seven day-ten year low flow (7Q10) of the receiving water (see Section I.A.3)c. above). In New Hampshire, the 7Q10 must be provided by to the applicant by the New Hampshire Department of Environmental Services.
f) Indicate whether the receiving water is a listed 303(d) water quality impaired or limited water and if so, for which pollutants (see Section VII.H. of the Fact Sheet for additional information). Also, indicate if there is a TMDL for any of the listed pollutants. For MA, the list of waters can be found at: http://www.mass.gov/dep/brp/wm/tmdls.htm and for NH: http://www.epa.gov/ne/eco/tmdl/impairedh2o.html. For more information, contact the states at: New Hampshire Department of Environmental Services, Watershed Management Bureau at 603-271-3503 or the Massachusetts Department of Environmental Protection at 508-767-2796 or 508-767-2873;

6. Consultation with Federal Services - As required in Part I.A.4 and Appendix VII the operator of a site/facility must ensure that the potential discharge will not affect adversely endangered species, designated critical habitat, or essential fish habitat, or national historic places that are in proximity to the potential discharge. If the potential discharge is to certain water bodies, the applicant must also submit a formal certification with the NOI that indicates the consultation, with the U.S. Fish and Wildlife Service and National Marine Fisheries Service (the Services), resulted in either a no jeopardy opinion or a written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat. Facilities should begin the

consultation as early in the process as possible.

a) Indicate whether any listed threatened or endangered species, designated critical habitat, or essential fish habitat, are in proximity to the discharge to be covered by this permit and whether any consultation with the Services is complete or underway.
b) Indicate whether or not there are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge (see http://www.cr.nps.gov/nr/research/nris.htm), and whether any state or tribal historic preservation officer (SHPO or THPO) was consulted in such a determination (for Massachusetts sites only).

7. Supplemental information. Applicants should provide any supplemental information needed to meet the requirements of the permit, including, any analytical data used to support the application, and any certification(s) required.

8. Signature Requirements - The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

> *I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of **facility/site**: Future Amerada Hess Station		**Facility/site** address:		
Location of **facility/site**: longitude: 71200 latitude: 41480	Facility SIC code(s): 5541	Street: 1 Progress Street		
b) Name of **facility/site owner:** Amerada Hess Corporation		Town: Seekonk		
Email address of owner: Represenative: mmatri@hess.com		State: MA	Zip: 02771	County: Bristol
Telephone no.of facility/site **owner**: (732) 750-6000				
Fax no. of facility/site **owner**: (732) 750-6105		**Owner** is (check one): 1. Federal____ 2. State/Tribal_____ 3. Private ✓ 4. other, if so, describe:		
Address of **owner** (if different from site):				
Street: One Hess Plaza				
Town: Woodbridge	State: NJ	Zip: 07095	County: Middlesex	
c) Legal name of **operator**: EnviroTrac Ltd.	**Operator** telephone no: (781) 769-5005			
	Operator fax no.: (781) 769-9345		**Operator** email: Represenative: bsnow@envirotrac.com	
Operator contact name and title: Brian G. Snow, P.G., LSP, LEP, Senior Project Manager				

Address of **operator** (if different from owner):	Street: 1400 Providence Highway, Suite 2100		
Town: Norwood	State: MA	Zip: 02062	County: Norfolk

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No✓, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No✓, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes ✓ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes✓ No__

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No✓ If "yes," please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N✓, if Y, number: 2. phase I or II construction storm water general permit? Y___ N✓, if Y, number: 3. individual NPDES permit? Y___ N✓, if Y, number: 4. any other water quality related permit? Y___ N✓, if Y, number:

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Temporay construction dewatering to facilitate the construction of a retain gasoline station and convenience store. The property is currently a retail liquor store.

b) Provide the following information about each discharge:	1) Number of discharge points:	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)? Max. flow 0.22 Average flow 0.06 Is maximum flow a **design value**? Y___ N ✓ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Estimate

3) Latitude and longitude of each discharge within 100 feet: pt.1:long. 71200 lat.41480 ; pt.2: long._____ lat._____; pt.3: long._____ lat._____; pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent_____or seasonal_____? Is discharge ongoing Yes ____ No_✓_?
c) Expected dates of discharge (mm/dd/yy): start 06/01/06 end 06/30/06	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites ✓	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	**Believe Absent**	**Believe Present**	**# of Samples (1 min-imum)**	**Type of Sample (e.g., grab)**	**Analytical Method Used (method #)**	**Minimum Level (ML) of Test Method**	**Maximum daily value**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids		✓	1	grab	160.2	5mg/L	5.74		5.74	0.0045
2. Total Residual Chlorine	✓		1	grab	330.4	20ug/L	ND			
3. Total Petroleum Hydrocarbons	✓		1	grab	1664	5mg/L	ND			
4. Cyanide	✓		1	grab	335.3	10ug/L	ND			
5. Benzene	✓		1	grab	8260B	2ug/L	ND			
6. Toluene	✓		1	grab	8260B	2ug/L	ND			
7. Ethylbenzene	✓		1	grab	8260B	2ug/L	ND			
8. (m,p,o) Xylenes	✓		1	grab	8260B	10ug/L	ND			
9. Total BTEX[4]	✓		1	grab	8260B	2ug/L	ND			

[4] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		1	grab	504	0.1ug/L	ND			
11. Methyl-tert-Butyl Ether (MtBE)		✓	1	grab	8260B	5.0ug/L	1.0		1.0	0.0007
12. tert-Butyl Alcohol (TBA)	✓		1	grab	8260B	100ugL	ND			
13. tert-Amyl Methyl Ether (TAME)	✓		1	grab	8260B	0.5ug/L	ND			
14. Naphthalene	✓		1	grab	8260B	2ug/L	ND			
15. Carbon Tetra-chloride	✓		1	grab	8260B	2ug/L	ND			
16. 1,4 Dichlorobenzene	✓		1	grab	8260B	2ug/L	ND			
17. 1,2 Dichlorobenzene	✓		1	grab	8260B	2ug/L	ND			
18. 1,3 Dichlorobenzene	✓		1	grab	8260B	2ug/L	ND			
19. 1,1 Dichloroethane	✓		1	grab	8260B	1ug/L	ND			
20. 1,2 Dichloroethane	✓		1	grab	8260B	2ug/L	ND			
21. 1,1 Dichloroethylene	✓		1	grab	8260B	2ug/L	ND			
22. cis-1,2 Dichloro-ethylene	✓		1	grab	8260B	2ug/L	ND			
23. Dichloromethane (Methylene Chloride)	✓		1	grab	8260B	2ug/L	ND			
24. Tetrachloroethylene	✓		1	grab	8260B	2ug/L	ND			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	grab	8260B	2ug/L				
26. 1,1,2 Trichloroethane	✓		1	grab	8260B	2ug/L				
27. Trichloroethylene	✓		1	grab	8260B	2ug/L				
28. Vinyl Chloride	✓		1	grab	8260B	2ug/L				
29. Acetone	✓		1	grab	8260B	50ug/L				
30. 1,4 Dioxane	✓		1	grab	8260B	50ug/L				
31. Total Phenols	✓		1	grab	3510C	1ug/L				
32. Pentachlorophenol	✓		1	grab	3510C	5ug/L				
33. Total Phthalates [5] (Phthalate esthers)	✓		1	grab	3510C	5ug/L				
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	grab	3510C	5ug/L				
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	3510C	--				
a. Benzo(a) Anthracene	✓		1	grab	3510C	10ug/L				
b. Benzo(a) Pyrene	✓		1	grab	3510C	10ug/L				
c. Benzo(b)Fluoranthene	✓		1	grab	3510C	10ug/L				
d. Benzo(k) Fluoranthene	✓		1	grab	3510C	10ug/L				
e. Chrysene	✓		1	grab	3510C	10ug/L				

[5] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	grab	3510	10ug/L				
g. Indeno(1,2,3-cd) Pyrene	✓		1	grab	3510	10ug/L				
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	3510	--				
h. Acenaphthene	✓		1	grab	3510	1ug/L				
i. Acenaphthylene	✓		1	grab	3510	10ug/L				
j. Anthracene	✓		1	grab	3510	10ug/L				
k. Benzo(ghi) Perylene	✓		1	grab	3510	5ug/L				
l. Fluoranthene	✓		1	grab	3510	1ug/L				
m. Fluorene	✓		1	grab	3510	10ug/L				
n. Naphthalene-	✓		1	grab	3510	2ug/L				
o. Phenanthrene	✓		1	grab	3510	5ug/L				
p. Pyrene	✓		1	grab	3510	10ug/L				
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab	608	0.5ug/L				
38. Antimony	✓		1	grab	6010B	50ug/L				
39. Arsenic	✓		1	grab	6010B	5ug/L				
40. Cadmium	✓		1	grab	6010B	5ug/L				
41. Chromium III		✓	1	grab	6010	5ug/L	85		85	0.067
42. Chromium VI	✓		1	grab	7196A	10ug/L				

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	grab	6010B	5ug/l	122		122	0.096
44. Lead		✓	1	grab	6010B	40ug/L	59.1		59.1	0.046
45. Mercury	✓		1	grab	7470A	0.2ug/L				
46. Nickel		✓	1	grab	6010B	10ug/L	103		103	0.081
47. Selenium	✓		1	grab	6010B	50ug/L				
48. Silver	✓		1	grab	6010B	10ug/L				
49. Zinc		✓	1	grab	6010B	10ug/L	335		335	0.265
50. Iron		✓	1	grab	6010B	--	81400		81400	64.5
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ✓ N____	If yes, which metals? Copper, lead, nickel, iron, chromium III
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: No published 7Q10 Values for Runnins or Barrington Rivers DF: 0-5	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ✓ N____ If "Yes," list which metals: Copper, lead, nickel, iron, Chromium III

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

The temporay construction dewatering treatment system will consist of a 21,000-gallon fractionation tank for settlement, then groundwater will be pumped through two bag filters connected in series, then through (2) 1,000-lb liquid-phase granulated activated carbon vessels prior to discharge. A schematic of the treatment system is attached.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system:
Average flow rate of discharge 30 Maximum flow rate of treatment system 100 Design flow rate of treatment system _____

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

None

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct_____	Within facility__	Storm drain ✓	River/brook____	Wetlands_____	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

The local storm drain system located on Progress Street discharhges into the Runnins River, which discharges to the Barrington River, then the Warren river, which discharges into Narraganset Bay. A site locus map showing the rivers is included as Figure 1. The Site Plan, showing the catch basin and proposed site layout is included as Figure 2.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
1. For multiple discharges, number the discharges sequentially.
2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water B,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water NA cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ✓ No____ If yes, for which pollutant(s)?
Pathogens, hypoxia, lead and biodiversity impacts

Is there a TMDL? Yes____ No ✓ If yes, for which pollutant(s)?
Pathogen TMDL being prepared for final submission to EPA. The remaining impairments are sheduled to be completed in 2005-2010.

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes____ No ✓
Has any consultation with the federal services been completed ? No ✓ or is consultation underway? Yes No ✓
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (~~check~~ one):
a "no jeopardy" opinion? _____ or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No ✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No ✓

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Future Amerada Hess Station, 1 Progress St, Seekonk, MA.

Operator signature:

Title: / ENVIROTREAC LTD.

Date: 31/10/06.

B. Submission of NOI to EPA - All operators applying for coverage under this General Permit must submit a written Notice of Intent (NOI) to EPA. Signed and completed NOI forms and attachments must be submitted to EPA-NE at:

US Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU),
1 Congress Street, Suite 1100
Boston, MA 02114-2023

or electronically mailed to NPDES.Generalpermits@epa.gov,
or faxed to the EPA Office at 617-918-0505.

If filling out the suggested NOI form electronically on EPA's website, the signature page must be signed and faxed or mailed to EPA at the phone number or address listed in Section I.B. below.

1. Filing with the states - A copy of any NOI form filed with EPA-NE must also be filed with state agencies. The state agency may elect to develop a state specific form or other information requirements.

a) Discharges in Massachusetts - In addition to the NOI, permit applicants must submit copies of the State Application Form BRPWM 12, Request for General Permit coverage for the RGP. The application form and the Transmittal Form for Permit Application and Payment, may be obtained from the Massachusetts Department of Environmental Protection (MA DEP) website at www.state.ma.us/dep. Municipalities are fee-exempt, but should send a copy of the transmittal form to that address for project tracking purposes. All applicants should keep a copy of the transmittal form and a copy of the application package for their records.

1) A copy of the NOI, the transmittal form, a copy of the check, and Form BRPWM 12 should be sent to:

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street, 2nd floor
Worcester, MA 01608

2) A copy of the transmittal form and the appropriate fee should be sent to:

Massachusetts Department of Environmental Protection
P.O. Box 4062
Boston, MA 02111

Please note: Applicants for discharges in Massachusetts should note that under 310 CMR 40.000, *as a matter of state law*, the general permit only applies to discharges that are **not** subject to the Massachusetts Contingency Plan (MCP) and 310 CMR 40.000. Therefore, discharges subject to the MCP are **not** required to fill out and submit the State Application Form BRPWM 12 or pay the state fees. However, they must submit a NOI to EPA.

b) Discharges in New Hampshire - applicants must provide a copy of the Notice of Intent to:

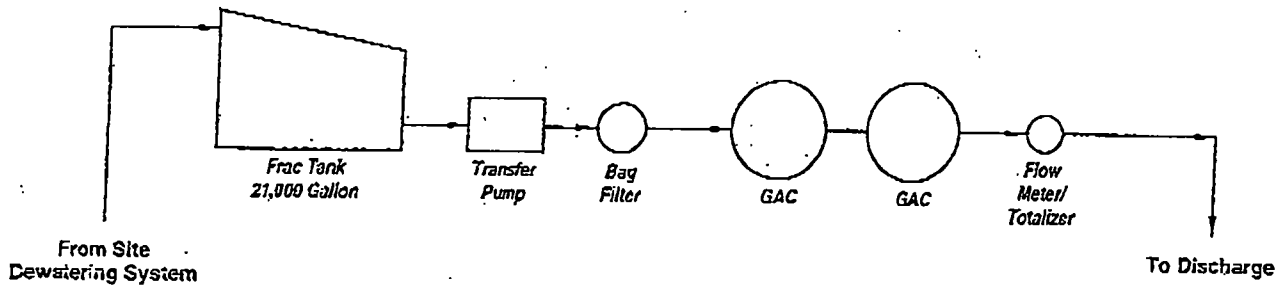
New Hampshire Department of Environmental Services
Water Division
Wastewater Engineering Bureau
P.O. Box 95
Concord, New Hampshire 03302-0095.

2. Filing with Municipalities - A copy of the NOI must be submitted to the municipality in which the proposed discharge would be located.

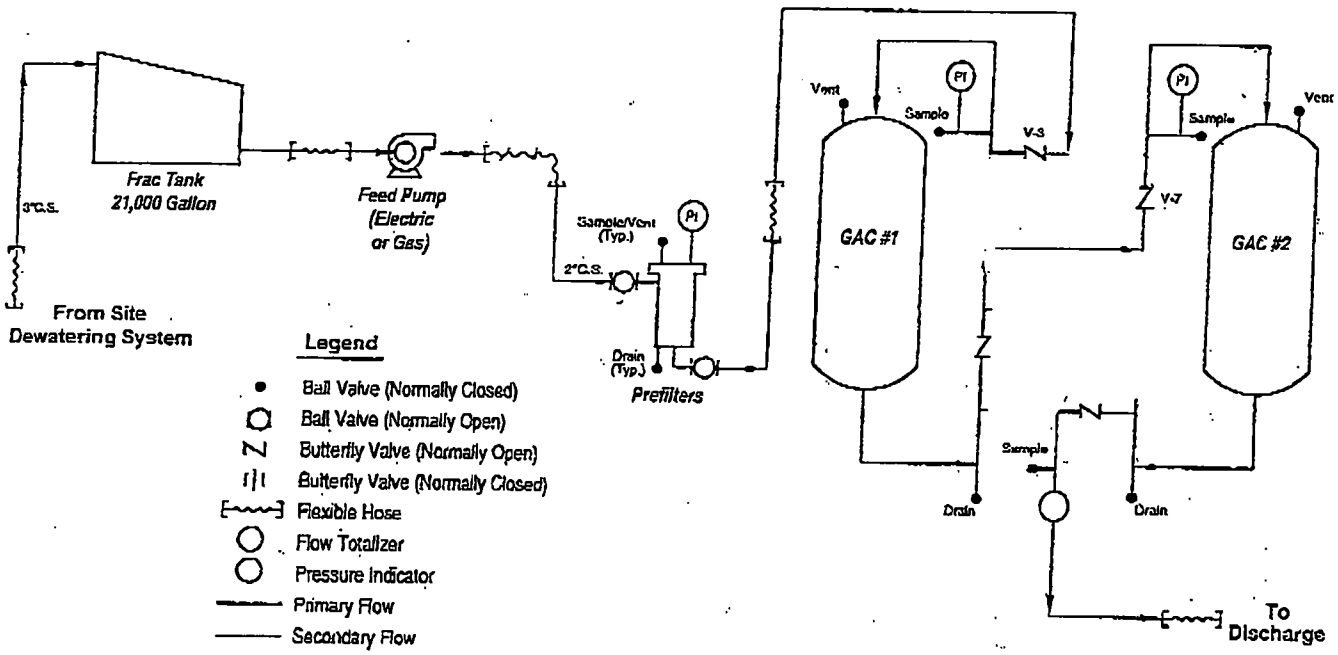
ATTACHMENT B

SERVICE TECH, INC.

Activated Carbon Engineering, Sales and Service



Process Flow Diagram
Dewatering Treatment System (Typical)



ATTACHMENT C

New England ACCUTEST LABORATORIES

02/24/06

Technical Report for

EnviroTrac

Hess:1 Progress St., Seekonk MA

Accutest Job Number: M54593

Sampling Date: 02/16/06

Report to:

EnviroTrac

SueC@envirotrac.com

ATTN: Sue Cahalan

Total number of pages in report: 16

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Lab Director

1956 - 2006
50
YEARS OF EXCELLENCE
Accutest Laboratories

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579) NY (23346) NJ (MA926) NAVY USACE

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Table of Contents

Sections: 1 2

-1-

Section 1: Sample Summary 3
Section 2: Sample Results 4
2.1: M54593-1: MW-1 5
2.2: M54593-1A: MW-1 14
Section 3: Misc. Forms 15
3.1: Chain of Custody 16

Sample Summary

EnviroTrac

Hess:1 Progress St., Seekonk MA

Job No: M54593

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M54593-1	02/16/06	00:00 JM	02/16/06	AQ	Ground Water	MW-1
M54593-1A	02/16/06	00:00 JM	02/16/06	AQ	Ground Water	MW-1

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P5386.D	1	02/20/06	AMY	n/a	n/a	MSP184
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert Butyl Alcohol	ND	100	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
✓79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-127%
2037-26-5	Toluene-D8	98%		89-112%
460-00-4	4-Bromofluorobenzene	89%		81-119%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F18721.D	1	02/22/06	PN	02/18/06	OP10604	MSF970
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
92-87-5	Benzidine	ND	20	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	10	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	10	ug/l	
117-84-0	Di-n-octyl phthalate	ND	10	ug/l	
84-66-2	Diethyl phthalate	ND	10	ug/l	
131-11-3	Dimethyl phthalate	ND	10	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	10	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
78-59-1	Isophorone	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	86%		21-110%
4165-60-0	Nitrobenzene-d5	60%		30-120%
321-60-8	2-Fluorobiphenyl	67%		35-120%
1718-51-0	Terphenyl-d14	65%		31-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	EPA 504 EPA 504	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ32690.D	1	02/19/06	CZ	02/18/06	OP10608	GYZ1338
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.014	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		26-158%
460-00-4	Bromofluorobenzene (S)	89%		26-158%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	EPA 608 EPA 608	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ32733.D	1	02/22/06	CZ	02/17/06	OP10597	GYZ1340
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		44-132%
877-09-8	Tetrachloro-m-xylene	82%		44-132%
2051-24-3	Decachlorobiphenyl	55%		12-151%
2051-24-3	Decachlorobiphenyl	57%		12-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
		Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]
Chromium	84.6	10	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]
Copper	122	25	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]
Iron	81400	100	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]
Lead	59.1	5.0	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	02/17/06	02/17/06	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	103	40	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]
Zinc	335	20	ug/l	1	02/20/06	02/23/06	HBM	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA6685
(2) Instrument QC Batch: MA6698
(3) Prep QC Batch: MP8230
(4) Prep QC Batch: MP8242

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
		Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	02/16/06 15:45	CF	SW846 7196A
Chromium, Trivalent [a]	0.085	0.020	mg/l	1	02/23/06 15:13	HBM	SW846 6010/7196A M
Cyanide	< 0.010	0.010	mg/l	1	02/22/06 13:28	MA	EPA 335.3
Oil And Grease, Gravimetric	< 4.0	4.0	mg/l	1	02/22/06	BF	EPA 1664
Phenols	< 0.050	0.050	mg/l	1	02/23/06	BF	EPA 420.1
Solids, Total Suspended	5740	8.0	mg/l	2	02/17/06	BF	EPA 160.2
pH	6.2		su	1	02/16/06 18:23	MA	EPA 150.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1A	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F18755.D	1	02/24/06	PN	02/23/06	OP10638	MSF972
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	0.10	0.10	ug/l	
56-55-3	Benzo(a)anthracene	0.62	0.050	ug/l	
50-32-8	Benzo(a)pyrene	0.63	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	0.68	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.49	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	0.74	0.10	ug/l	
218-01-9	Chrysene	0.81	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.10	0.10	ug/l	
206-44-0	Fluoranthene	1.1	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.42	0.10	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	0.46	0.10	ug/l	
129-00-0	Pyrene	1.1	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		10-120%
4165-62-2	Phenol-d5	31%		10-120%
118-79-6	2,4,6-Tribromophenol	92%		23-135%
4165-60-0	Nitrobenzene-d5	77%		30-120%
321-60-8	2-Fluorobiphenyl	73%		25-120%
1718-51-0	Terphenyl-d14	85%		24-132%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M54593
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: ENVIROTRAC
ADDRESS: 1400 providence Highway
CITY, STATE ZIP: Norwood MA 02062
SEND REPORT TO: Joe Cahatan
PHONE #:

FACILITY INFORMATION

PROJECT NAME: Future Hess Station
LOCATION: 1 progress St. Seekonk MA.
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	8270 PPL, 8270 SIM Spec list	EDB 504, Total cyanide 335.4	TSS 160.2, 8260	8260 oxygenated + 1,4 dioxane	PCB 608, Hex Cr,	Cr+3, Total Cr, Phenol	PH, TPH 1664, Hg(total)	TOTAL: Antimony, Copper,	Lead, Mercury, Nickel,	Silver, Zinc, Iron.	LAB USE ONLY
	MW-1 M54593-1	2/16/05		JRA	GW	19						X	X	X	X	X	X	X	X	X	X	
																						13B, 2B, 6B, 1B7
																						18B, 3B

MATRIX CODES: DW - DRINKING WATER; GW - GROUND WATER; WW - WASTE WATER; SO - SOIL; SL - SLUDGE; OI - OIL; LIQ - OTHER LIQUID; SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☒ 7 DAYS RUSH 5-7days
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY: SCOTT

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

SAMPLES RECEIVED DIRECTLY FROM FIELD SAMPLING

COMMENTS/REMARKS

Bill Hess Direct ~~[illegible]~~
Include Chromatograms

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Mondello	2/16/06 2:15	1. [signature]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 11.5 C

M54593: Chain of Custody
Page 1 of 1

RECEIVED
AUG 1 0 2005

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number Q0728-16

Prepared for:

Attn: Eric Simpson
Envirotrac Ltd.
1400 Providence Hwy, Suite 2100
Norwood, MA 02062

Report Date: August 4, 2005

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, Rhode Island 02904-5392
PROVIDENCE (401) 353-3420 TOLL FREE: 1-888-863-8522

Total # of Pages: 63

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc.	Project #:
Project Location: Hess Real Estate Seekonk 1	RTN[1]:

This form provides certifications for the following data set: Q0728-16

Sample Matrices: Groundwater (X) Soil/Sediment ( ) Drinking Water ( ) Other:

SW-846 Methods Used					
	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH (X)	6020 ( )	9014M[2] ( )
	8082 ( )	8021B ( )	EPH (X)	7000 S[3] ( )	Other: ( )

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No[1] ( ) Not Applicable ( )
D	***VPH and EPH Methods only***: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes ( ) No[1] ( )

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (X) No[1] ( )
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No[1] ( )

[1]All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Mark H. Bishop Position: Laboratory Director

Printed Name: Mark H. Bishop Date: 8/4/2005

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc. Project #:

Project Location: Hess Real Estate Seekonk 1 RTN[1]:

This form provides certifications for the following data set: Q0728-16

Sample Matrices: Groundwater (X) Soil/Sediment ( ) Drinking Water ( ) Other:

SW-846 Methods Used					
	8260B ( )	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M[2] ( )
	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other: ( )

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No[1] ( ) Not Applicable ( )
D	***VPH and EPH Methods only***: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes ( ) No[1] ( )

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (X) No[1] ( )
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No[1] ( )

[1]All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Jodi Lyons Position: Director, Inorganics

Printed Name: Jodi Lyons Date: 08/03/2005

STATEMENTS/CERTIFICATIONS REQUIRED BY THE NATIONAL ENVIRONMENTAL LABORATORY APPROVAL CONFERENCE (NELAC)

New England Testing Laboratory is certified under the National Environmental Laboratory Approval Program (NELAP). This certification requires the following statements and certifications be included in our report.

This report shall not be reproduced, except in full, without written approval of the laboratory.

New England Testing certifies that the test results contained within this report meet all NELAC requirements except as detailed in the Case Narrative section of this report.

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on July 28, 2005. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. The case number for this sample submission is Q0728-16.

Custody records are included in this report.

Site: Hess Real Estate Seekonk 1

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
MW-1	7/28/05	Groundwater	Table II
MW-2	7/28/05	Groundwater	Table II
MW-3	7/28/05	Groundwater	Table II
MW-4	7/28/05	Groundwater	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
VPH	NA	*
EPH	NA	**
Volatile Organic Compounds	5030B	8260B
Dissolved Metals		
Arsenic	NA	6010B
Barium	NA	6010B
Cadmium	NA	6010B
Chromium	NA	6010B
Lead	NA	6010B
Mercury	NA	7470A
Selenium	NA	6010B
Silver	NA	6010B

These methods are documented in:

*Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP.

**Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MADEP.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA.

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No trip blank or field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were received on ice at 19 Deg. C. Samples for dissolved metals analysis were filtered and acid preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

Metals:

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

Volatile Organics:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) fell within method specified quality control criteria.

VPH:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) fell within method specified quality control criteria.

EPH:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Sample Results

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.

METALS RESULTS

Case Number: Q0728-16
Sample ID: MW-1
Date collected: 07/28/05
Matrix WATER
Sample Type: Dissolved

Analyst AR/CC

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date Analyzed
Arsenic	7440-38-2	NA	6010B	ND	0.01	0.01	mg/l	7/29/05
Barium	7440-39-3	NA	6010B	0.191	0.005	0.005	mg/l	7/29/05
Cadmium	7440-43-9	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Chromium	7440-47-3	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Lead	7439-92-1	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Mercury	7439-97-6	NA	7470A	ND	0.0002	0.0002	mg/l	8/2/05
Selenium	7782-49-2	NA	6010B	ND	0.01	0.01	mg/l	7/29/05
Silver	7440-22-4	NA	6010B	ND	0.005	0.005	mg/l	7/29/05

ND indicates not Detected

METALS RESULTS

NETLLAB

Case Number: Q0728-16
Sample ID: MW-2
Date collected: 07/28/05
Matrix WATER
Sample Type: Dissolved

Analyst AR/CC

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date Analyzed
Arsenic	7440-38-2	NA	6010B	ND	0.01	0.01	mg/l	7/29/05
Barium	7440-39-3	NA	6010B	0.067	0.005	0.005	mg/l	7/29/05
Cadmium	7440-43-9	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Chromium	7440-47-3	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Lead	7439-92-1	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Mercury	7439-97-6	NA	7470A	ND	0.0002	0.0002	mg/l	8/2/05
Selenium	7782-49-2	NA	6010B	0.01	0.01	0.01	mg/l	7/29/05
Silver	7440-22-4	NA	6010B	ND	0.005	0.005	mg/l	7/29/05

ND indicates not Detected

METALS RESULTS

NETLAB

Case Number: Q0728-16
Sample ID: MW-3
Date collected: 07/28/05
Matrix WATER
Sample Type: Dissolved

Analyst AR/CC

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date Analyzed
Arsenic	7440-38-2	NA	6010B	ND	0.01	0.01	mg/l	7/29/05
Barium	7440-39-3	NA	6010B	0.048	0.005	0.005	mg/l	7/29/05
Cadmium	7440-43-9	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Chromium	7440-47-3	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Lead	7439-92-1	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Mercury	7439-97-6	NA	7470A	ND	0.0002	0.0002	mg/l	8/2/05
Selenium	7782-49-2	NA	6010B	ND	0.01	0.01	mg/l	7/29/05
Silver	7440-22-4	NA	6010B	ND	0.005	0.005	mg/l	7/29/05

ND indicates not Detected

METALS RESULTS

NETLAB

Case Number: Q0728-16
Sample ID: MW-4
Date collected: 07/28/05
Matrix WATER
Sample Type: Dissolved

Analyst AR/CC

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date Analyzed
Arsenic	7440-38-2	NA	6010B	0.01	0.01	0.01	mg/l	7/29/05
Barium	7440-39-3	NA	6010B	0.224	0.005	0.005	mg/l	7/29/05
Cadmium	7440-43-9	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Chromium	7440-47-3	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Lead	7439-92-1	NA	6010B	ND	0.005	0.005	mg/l	7/29/05
Mercury	7439-97-6	NA	7470A	ND	0.0002	0.0002	mg/l	8/2/05
Selenium	7782-49-2	NA	6010B	0.02	0.01	0.01	mg/l	7/29/05
Silver	7440-22-4	NA	6010B	ND	0.005	0.005	mg/l	7/29/05

ND indicates not Detected

LCS RECOVERY

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Arsenic	1	0.955	mg/l	95.5	67	120	7/29/05
Barium	1	0.994	mg/l	99.4	86	108	7/29/05
Cadmium	1	0.98	mg/l	98	87	113	7/29/05
Chromium	1	0.988	mg/l	98.8	89	107	7/29/05
Lead	1	1.03	mg/l	103	88	108	7/29/05
Mercury	0.001	0.0009	mg/l	93	89	111	8/2/05
Selenium	1	0.924	mg/l	92.4	76	115	7/29/05
Silver	1	0.998	mg/l	99.8	86	112	7/29/05

RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.
Lab Sample ID: MW-1
Lab File ID: AUG0218.D
Date Sampled: 7/28/2005
Date Analyzed: 8/2/2005
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	3.0	U
1634-04-4	tert-Butyl methyl ether	9.6	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.
Lab Sample ID: MW-1
Lab File ID: AUG0218.D
Date Sampled: 7/28/2005
Date Analyzed: 8/2/2005
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
75-87-3	Chloromethane	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.

Lab Sample ID: MW-2

Lab File ID: AUG0219.D

Date Sampled: 7/28/2005

Date Analyzed: 8/2/2005

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	3.0	U
1634-04-4	tert-Butyl methyl ether	3.3	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.
Lab Sample ID: MW-2
Lab File ID: AUG0219.D
Date Sampled: 7/28/2005
Date Analyzed: 8/2/2005
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
75-87-3	Chloromethane	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.
Lab Sample ID: MW-3
Lab File ID: AUG0220.D
Date Sampled: 7/28/2005
Date Analyzed: 8/2/2005
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	3.0	U
1634-04-4	tert-Butyl methyl ether	5.3	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.
Lab Sample ID: MW-3
Lab File ID: AUG0220.D
Date Sampled: 7/28/2005
Date Analyzed: 8/2/2005
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
75-87-3	Chloromethane	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.
Lab Sample ID: MW-4
Lab File ID: AUG0221.D
Date Sampled: 7/28/2005
Date Analyzed: 8/2/2005
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	3.0	U
1634-04-4	tert-Butyl methyl ether	8.8	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.

Lab Sample ID: MW-4

Lab File ID: AUG0221.D

Date Sampled: 7/28/2005

Date Analyzed: 8/2/2005

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
75-87-3	Chloromethane	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.

Lab Sample ID: VBLK080205A

Lab File ID: AUG0205.D

Date Sampled: 7/28/2005

Date Analyzed: 8/2/2005

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	3.0	U
1634-04-4	tert-Butyl methyl ether	2.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0728-16
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: KK, BP

Client Name: Envirotrac Ltd.
Lab Sample ID: VBLK080205A
Lab File ID: AUG0205.D
Date Sampled: 7/28/2005
Date Analyzed: 8/2/2005
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
75-87-3	Chloromethane	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Lab Contract: Hess Real Estate

Lab Code: RI010 Case No.: Q0728-16 SAS No.: _____ SDG No.: Envirotrac

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VBLK080205A	89	111	99	0
02	MW-1	93	108	99	0
03	MW-2	97	110	99	0
04	MW-3	96	111	100	0
05	MW-4	98	109	99	0
06	VLCS080205	97	110	110	0

			QC LIMITS
SMC1	=	1,2-Dichloroethane-D4	(76-130)
SMC2	=	Toluene-D8	(85-124)
SMC3	=	Bromofluorobenzene	(77-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

FORM II VOA-1

NETLLAB

Volatile Organics Laboratory Control Spike

Date Analyzed: 08/2/05 **Sample ID: VLCS050802A**

Compound	Spike Added (ug/L)	Spike Result (ug/L)	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
Chloromethane	50	44	88	70	164
Vinyl Chloride	50	49	97	70	155
Bromomethane	50	69	138	15	213
Chloroethane	50	61	123	52	193
1,1-Dichloroethene	50	50	99	77	137
Methylene Chloride	50	50	99	76	130
trans-1,2 Dichloroethene	50	49	97	74	128
1,1-Dichloroethane	50	49	99	78	126
2-Butanone	50	48	96	65	146
cis-1,2-Dichloroethene	50	49	97	76	123
Chloroform	50	48	96	83	125
Bromochloromethane	50	44	87	76	121
1,1,1-Trichloroethane	50	48	96	73	129
1,1-Dichloropropene	50	48	96	79	122
Carbon Tetrachloride	50	47	94	74	129
Benzene	50	50	100	75	117
1,2-Dichloroethane	50	48	96	78	123
Trichloroethene	50	53	106	65	141
1,2-Dichloropropane	50	49	97	81	121
Bromodichloromethane	50	48	96	74	116
Dibromomethane	50	46	92	80	115
MIBK	50	43	86	72	147
cis-1,3-Dichloropropene	50	50	101	47	132
Toluene	50	51	101	74	119
Trans-1,3-Dichloropropene	50	51	101	52	136
1,1,2-Trichloroethane	50	49	98	81	118
Ethylene Dibromide	50	49	99	80	121
2-Hexanone	50	44	88	65	153
Tetrachloroethene	50	52	103	29	190
1,3-Dichloropropane	50	50	101	59	143
Chlorodibromomethane	50	51	102	79	114
Chlorobenzene	50	50	100	74	115
1,1,1,2-Tetrachloroethane	50	50	100	77	116
Ethylbenzene	50	51	103	77	117
m & p-Xylene	100	102	102	58	129
o-Xylene	50	50	100	24	175
Styrene	50	44	88	76	111
Bromoform	50	50	100	78	115
Isopropylbenzene	50	56	112	82	125
1,1,2,2-Tetrachloroethane	50	49	98	50	142

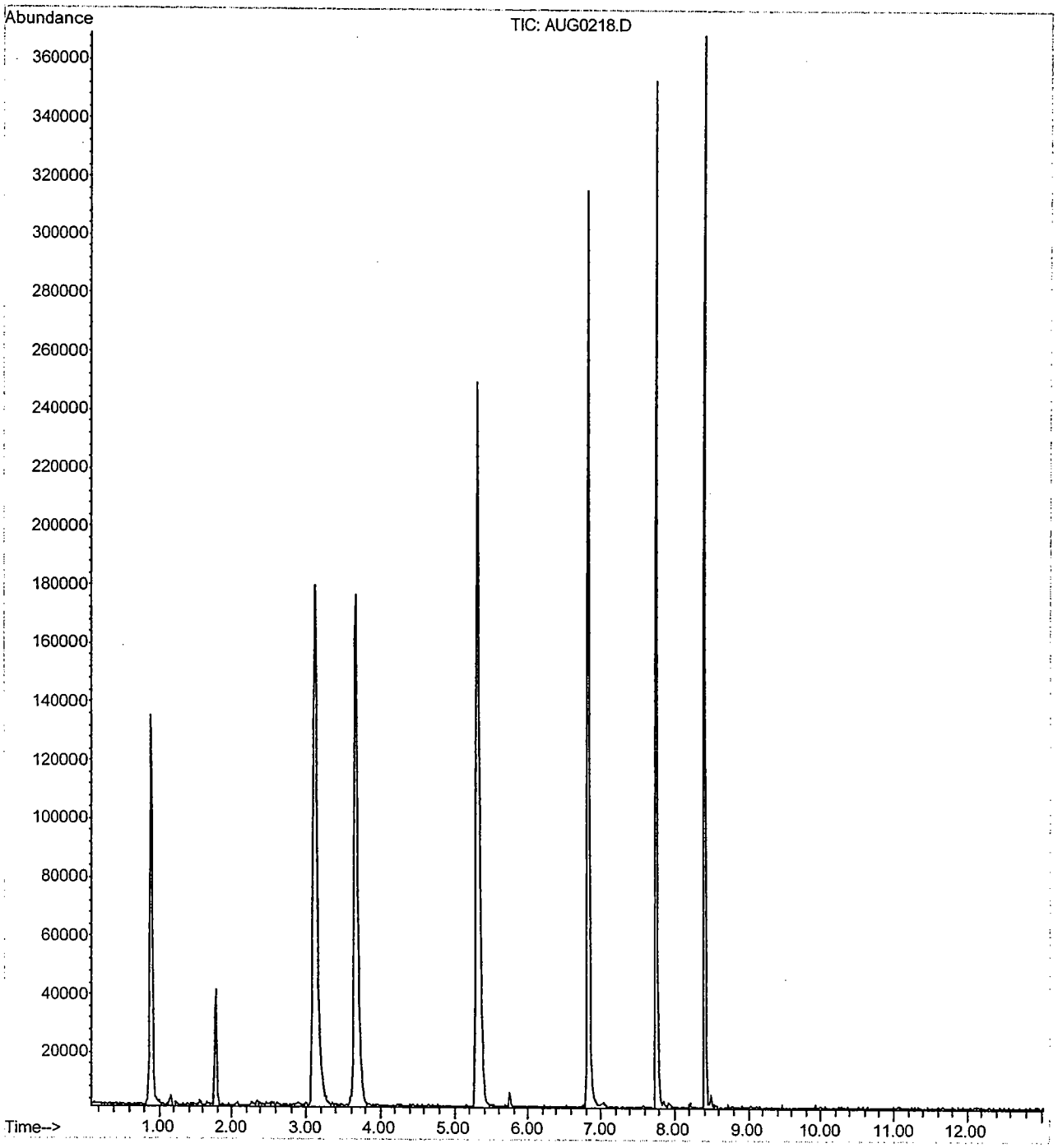
NETLLAB

Volatile Organics Laboratory Control Spike

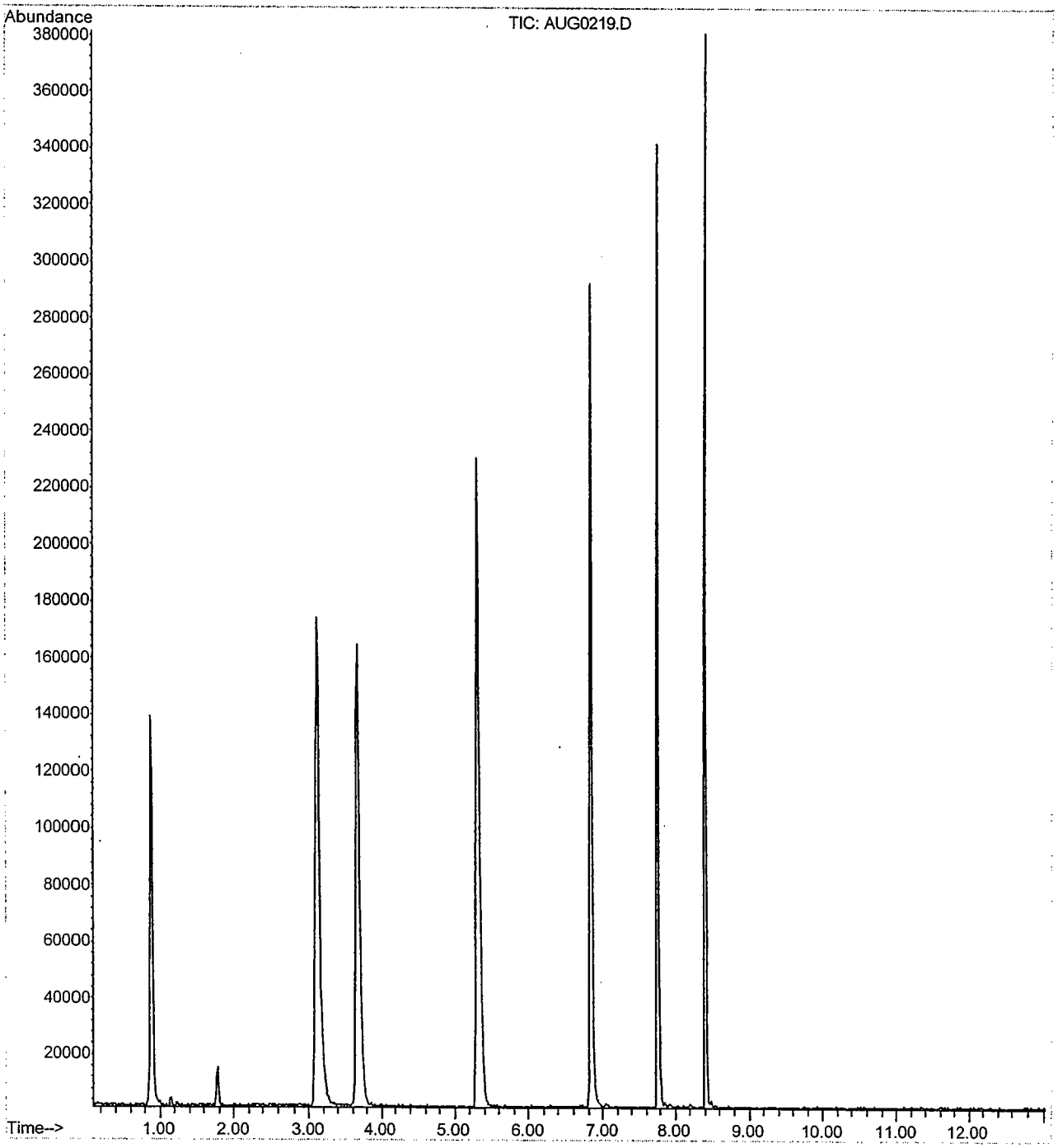
Date Analyzed: 08/2/05 **Sample ID: VLCS050802A**

Compound	Spike Added (ug/L)	Spike Result (ug/L)	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
Bromobenzene	50	53	106	78	116
1,2,3-Trichloropropane	50	50	100	76	120
n-Propylbenzene	50	51	103	75	118
2-Chlorotoluene	50	50	99	73	114
1,3,5-Trimethylbenzene	50	51	103	74	117
4-Chlorotoluene	50	50	99	72	115
tert-Butylbenzene	50	62	124	80	137
1,2,4-Trimethylbenzene	50	51	103	72	118
sec-Butylbenzene	50	48	97	73	114
p-Isopropyltoluene	50	49	98	72	140
1,3-Dichlorobenzene	50	49	99	69	116
1,4-Dichlorobenzene	50	48	97	69	117
n-Butylbenzene	50	39	77	65	130
1,2-Dichlorobenzene	50	49	99	73	113
1,2-Dibromo-3-chloropropane	50	49	97	46	138
1,2,4-Trichlorobenzene	50	39	78	35	157
Naphthalene	50	41	83	17	186
1,2,3-Trichlorobenzene	50	39	78	32	186

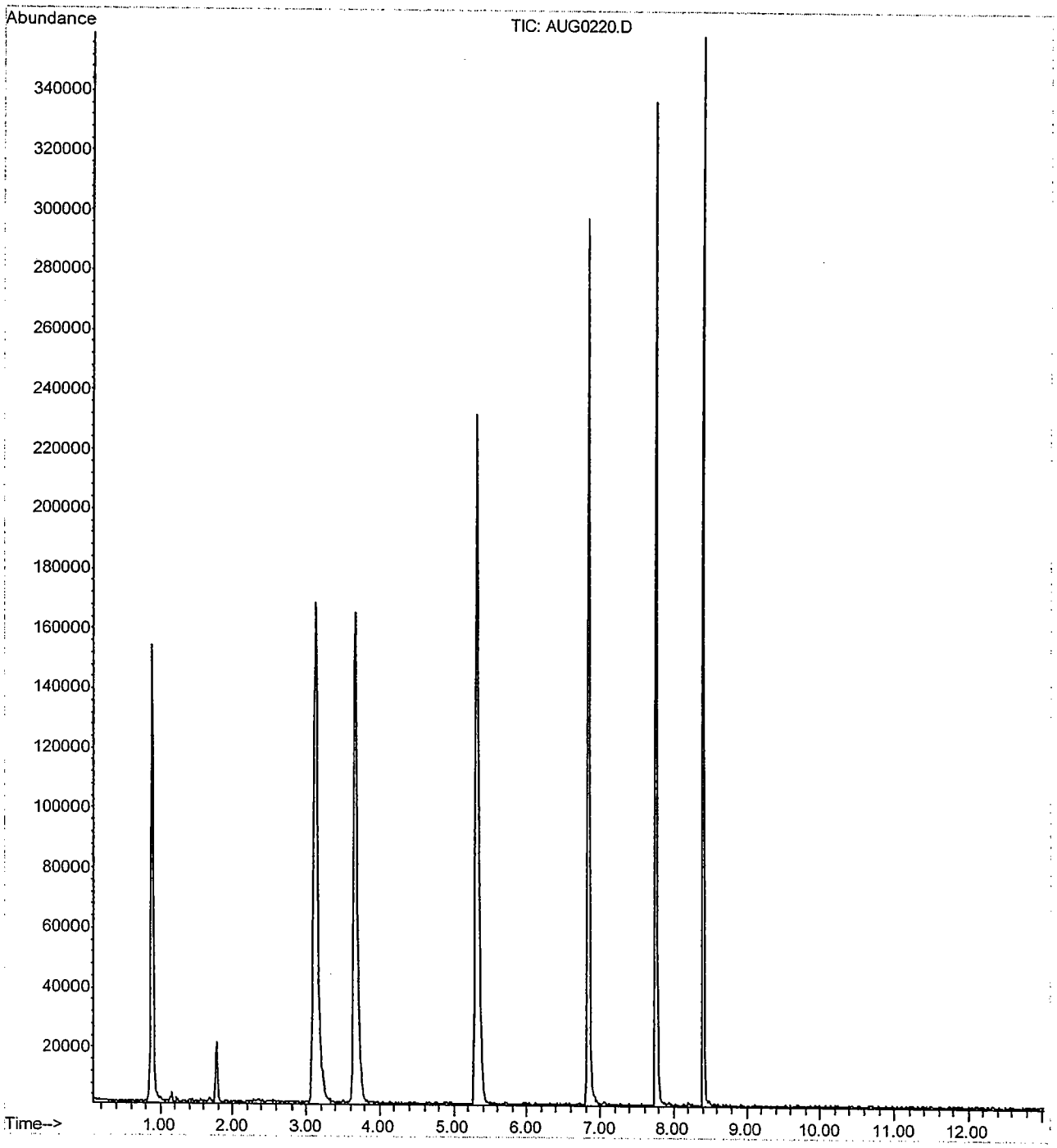
```
File        : C:\MSDCHEM\1\DATA\AUG02\AUG0218.D
Operator    : KK, BP
Acquired    :  2 Aug 2005   7:29 pm using AcqMethod 8260B-01
Instrument  :   Instrumen
Sample Name: Q0728-16 MW-1
Misc Info   :
Vial Number: 18
```



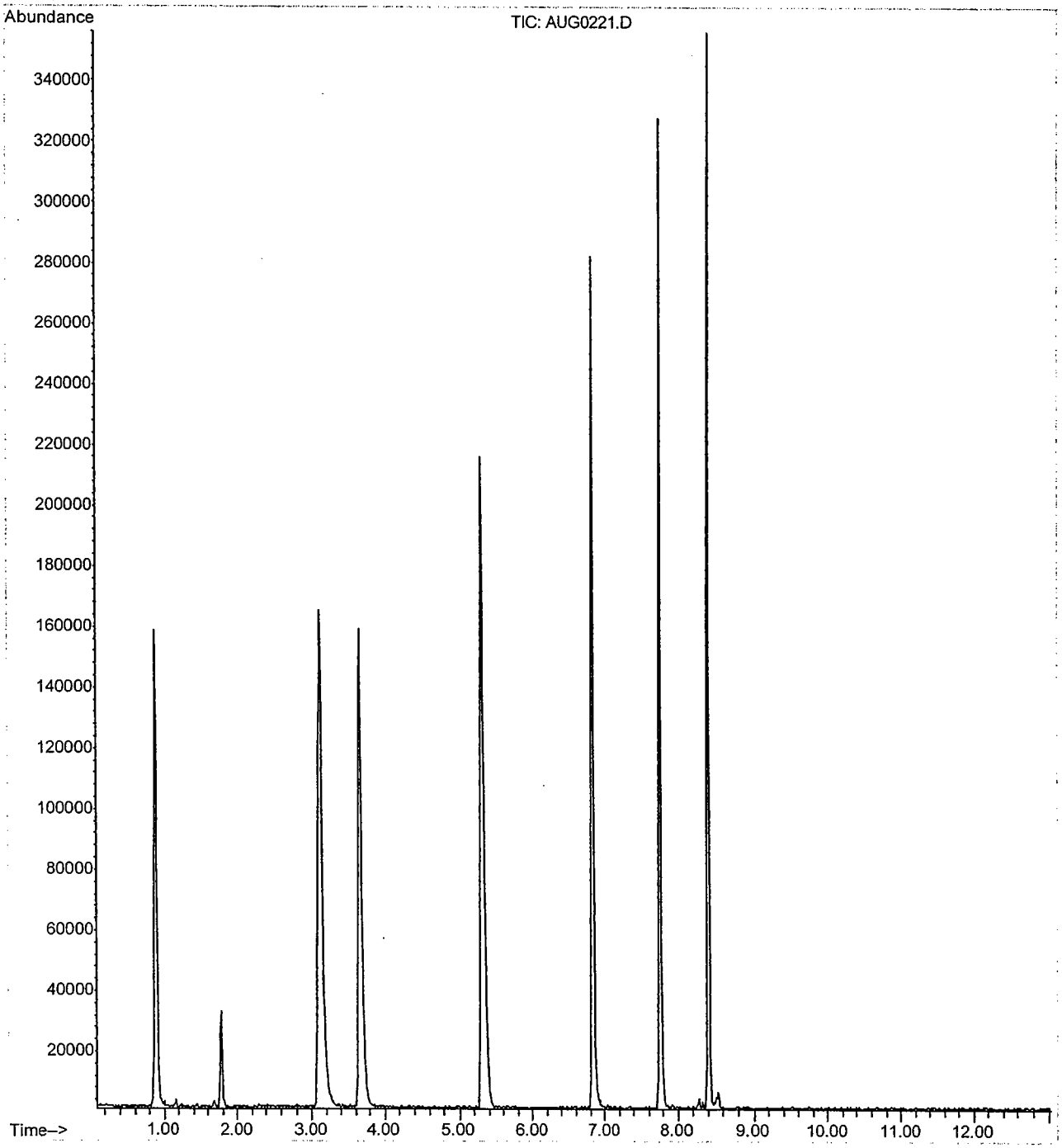
```
File        : C:\MSDCHEM\1\DATA\AUG02\AUG0219.D
Operator    : KK, BP
Acquired    :  2 Aug 2005   8:00 pm using AcqMethod 8260B-01
Instrument  :   Instrumen
Sample Name: Q0728-16 MW-2
Misc Info   :
Vial Number: 19
```



```
File        : C:\MSDCHEM\1\DATA\AUG02\AUG0220.D
Operator    : KK, BP
Acquired    :  2 Aug 2005   8:30 pm using AcqMethod 8260B-01
Instrument  :   Instrumen
Sample Name: Q0728-16 MW-3
Misc Info   :
Vial Number: 20
```



```
File        : C:\MSDCHEM\1\DATA\AUG02\AUG0221.D
Operator    : KK, BP
Acquired    :  2 Aug 2005   9:01 pm using AcqMethod 8260B-01
Instrument  :   Instrumen
Sample Name: Q0728-16 MW-4
Misc Info   :
Vial Number: 21
```



RESULTS: VOLATILE PETROLEUM HYDROCARBONS

Results for VPH analysis are presented in the following section. Each page is electronically signed. In the hardcopy report, two signatures appear on the approval line – the electronic signature and the handwritten signature.

SAMPLE INFORMATION

Matrix	X Aqueous	_ Soil	_ Sediment _ Other:
Containers	X Satisfactory	_ Broken	_ Leaking:
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice _ Received at 4° C X Other: Received at 19° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	MW-1
Method for Target Analytes:			Lab ID	Q0728-16
VPH Surrogate Standards			Date Collected	7/28/05
PID: Fluorobenzene			Date Received	7/28/05
FID: Fluorobenzene			Date Analyzed	8/3/05
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				86
FID Surrogate % Recovery				93
Surrogate Acceptance Range				70-130%

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

[2]C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3]C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director

PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous	_ Soil _ Sediment _ Other:	
Containers	X Satisfactory	_ Broken _ Leaking:	
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice _ Received at 4° C X Other: Received at 19° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	MW-2
Method for Target Analytes:			Lab ID	Q0728-16
VPH Surrogate Standards			Date Collected	7/28/05
PID: Fluorobenzene			Date Received	7/28/05
FID: Fluorobenzene			Date Analyzed	8/3/05
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				76
FID Surrogate % Recovery				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]C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3]C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director

PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous	_ Soil	_ Sediment _ Other:
Containers	X Satisfactory	_ Broken	_ Leaking:
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice	_ Received at 4° C X Other: Received at 19° C	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	MW-3
Method for Target Analytes:			Lab ID	Q0728-16
VPH Surrogate Standards			Date Collected	7/28/05
PID: Fluorobenzene			Date Received	7/28/05
FID: Fluorobenzene			Date Analyzed	8/3/05
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				99
FID Surrogate % Recovery				111
Surrogate Acceptance Range				70-130%

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

[2]C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3]C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director

PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous	_ Soil	_ Sediment	_ Other:
Containers	X Satisfactory	_ Broken	_ Leaking:	
Sample Preservatives	Aqueous	_ N/A	X pH≤2	_ pH>2 Comment:
	Soil or Sediment	_ N/A	_ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol:	_ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:		_ Other:
Temperature	X Received on Ice	_ Received at 4° C	X Other: Received at 19° C	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	MW-4
Method for Target Analytes:			Lab ID	Q0728-16
VPH Surrogate Standards			Date Collected	7/28/05
PID: Fluorobenzene			Date Received	7/28/05
FID: Fluorobenzene			Date Analyzed	8/3/05
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				79
FID Surrogate % Recovery				88
Surrogate Acceptance Range				70-130%

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

[2]C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3]C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director

PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous	_ Soil	_ Sediment _ Other:
Containers	_ Satisfactory	_ Broken	_ Leaking:
Sample Preservatives	Aqueous	X N/A _ pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	_ Received on Ice	_ Received at 4° C _ Other:	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	Method Blank
Method for Target Analytes:			Lab ID	Q0728-16
VPH Surrogate Standards			Date Collected	NA
PID: Fluorobenzene			Date Received	NA
FID: Fluorobenzene			Date Analyzed	8/2/05
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				78
FID Surrogate % Recovery				88
Surrogate Acceptance Range				70-130%

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

[2]C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3]C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

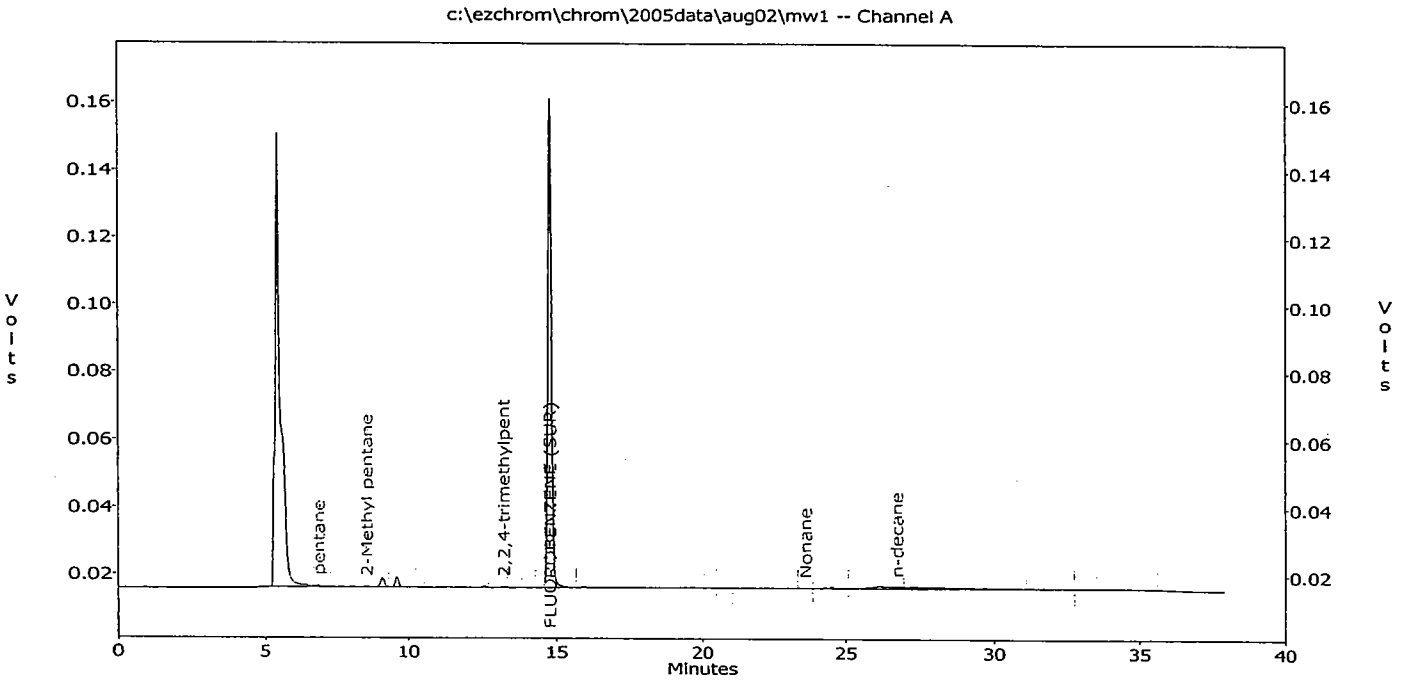
Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director

PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

fid
File c:\ezchrom\chrom\2005data\aug02\mw1
Method c:\ezchrom\methods\vph\v080205.met
Sample mw1
Acquired Aug 03, 2005 12:00:08



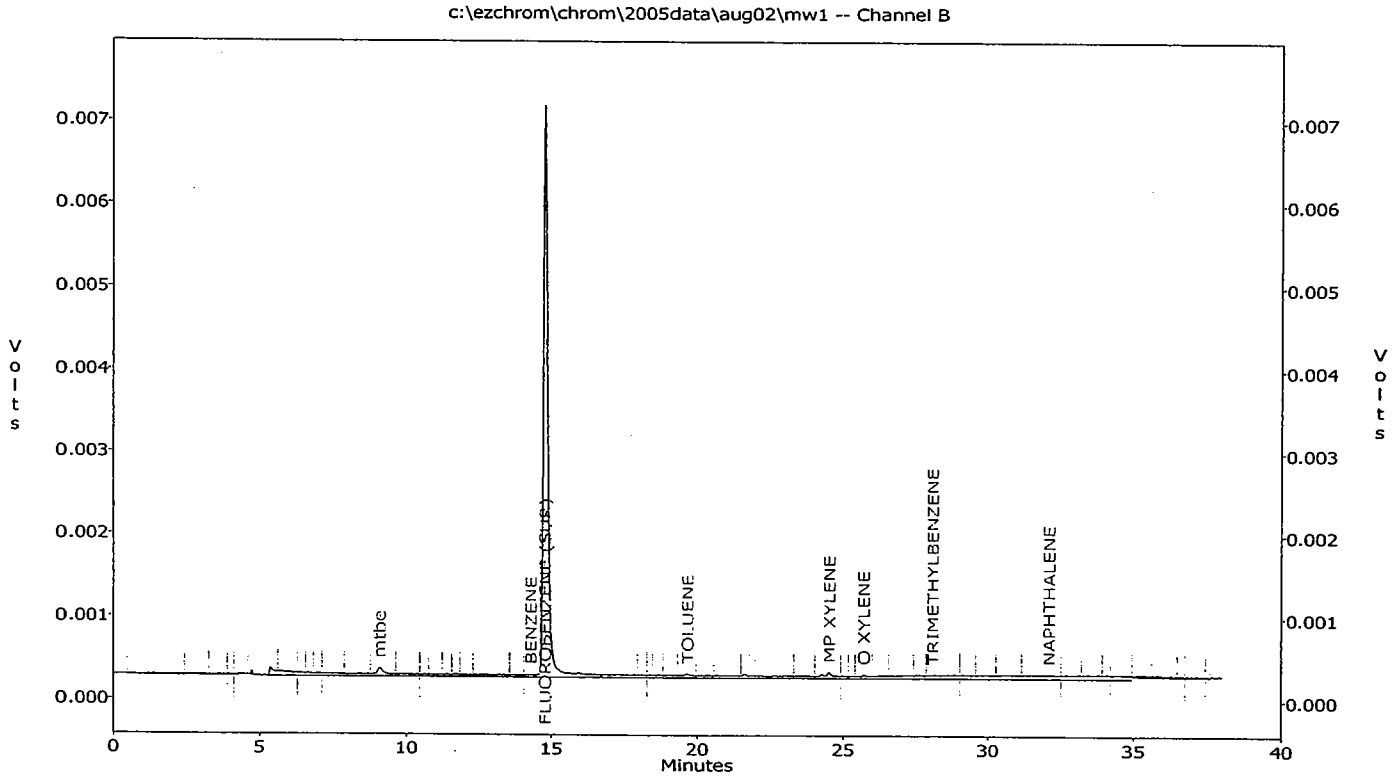
Channel A Results

Name	Time	Area	CONC UG/L
pentane	6.88	6639	0.786
2-Methyl pentane	8.55	2159	0.197
2,2,4-trimethylpe	13.24	849	0.064
FLUOROBENZENE (SU	14.78	1194197	90.822
Nonane	23.60	2145	0.178
n-decane	26.74	9100	10.016
n-butylcyclohexan	28.13	0	0.000
group 1 5-8		1311688	0.000
group 2 c9-c12		172856	0.000

Channel A Group Results

Name	Time	Area	CONC UG/L
c5-c8		9647	1.047
c9-c12		2145	0.178

pid
File c:\ezchrom\chrom\2005data\aug02\mw1
Metho c:\ezchrom\methods\vph\v080205.met
Sampl mw1
Acquir Aug 03, 2005 12:00:08



Channel B Results

Name	Time	Area	CONC UG/L
mtbe	9.08	2300	9.098
BENZENE	14.29	702	0.473
FLUOROBENZENE (SU	14.78	69947	84.443
TOLUENE	19.67	1339	0.633
ETHYLBENZENE	24.30	0	0.000
M&P XYLENE	24.52	2048	0.684
O XYLENE	25.73	1122	0.461
TRIMETHYLBENZENE	28.11	1328	0.369
NAPHTHALENE	32.13	1429	10.322
GROUP C9-C10		15836	0.000

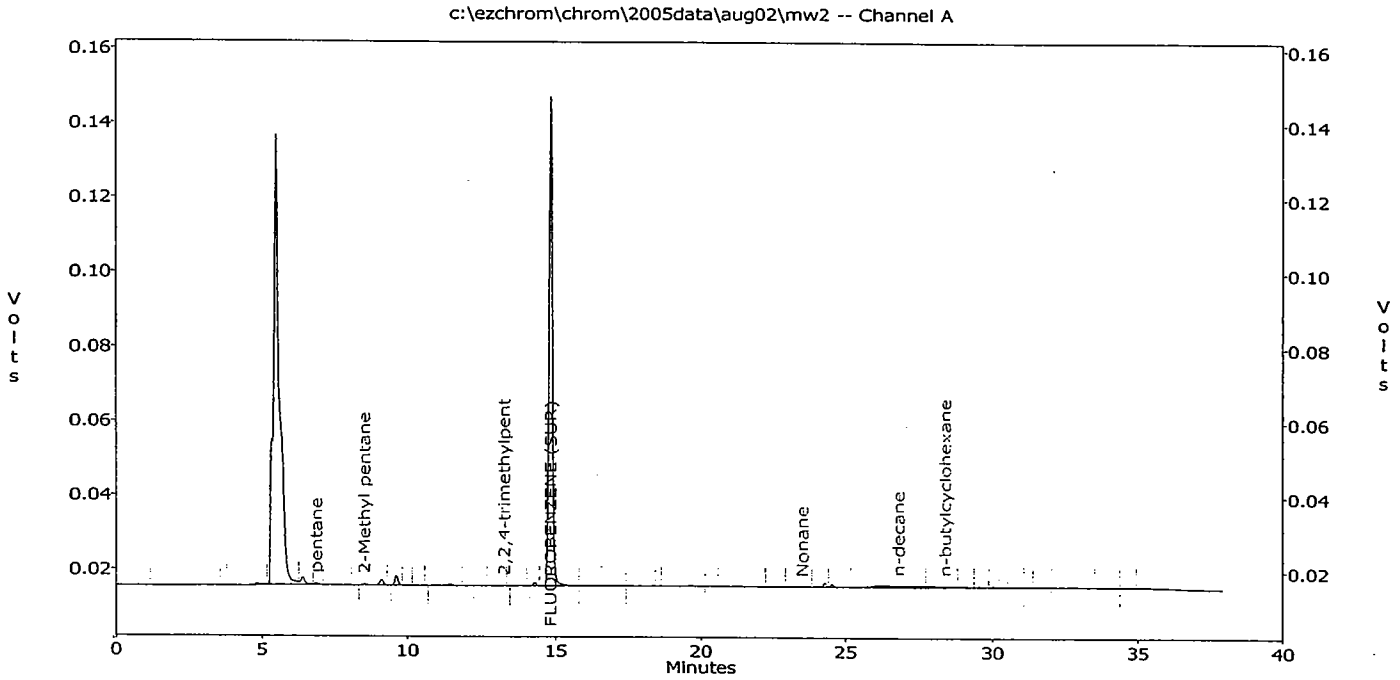
Totals :

		96051	106.484

Channel B Group Results

Name	Time	Area	CONC UG/L
c9-c10		1328	0.369

fid
File c:\ezchrom\chrom\2005data\aug02\mw2
Methoc c:\ezchrom\methods\vph\v080205.met
Sampl mw2
Acquir Aug 03, 2005 12:41:51



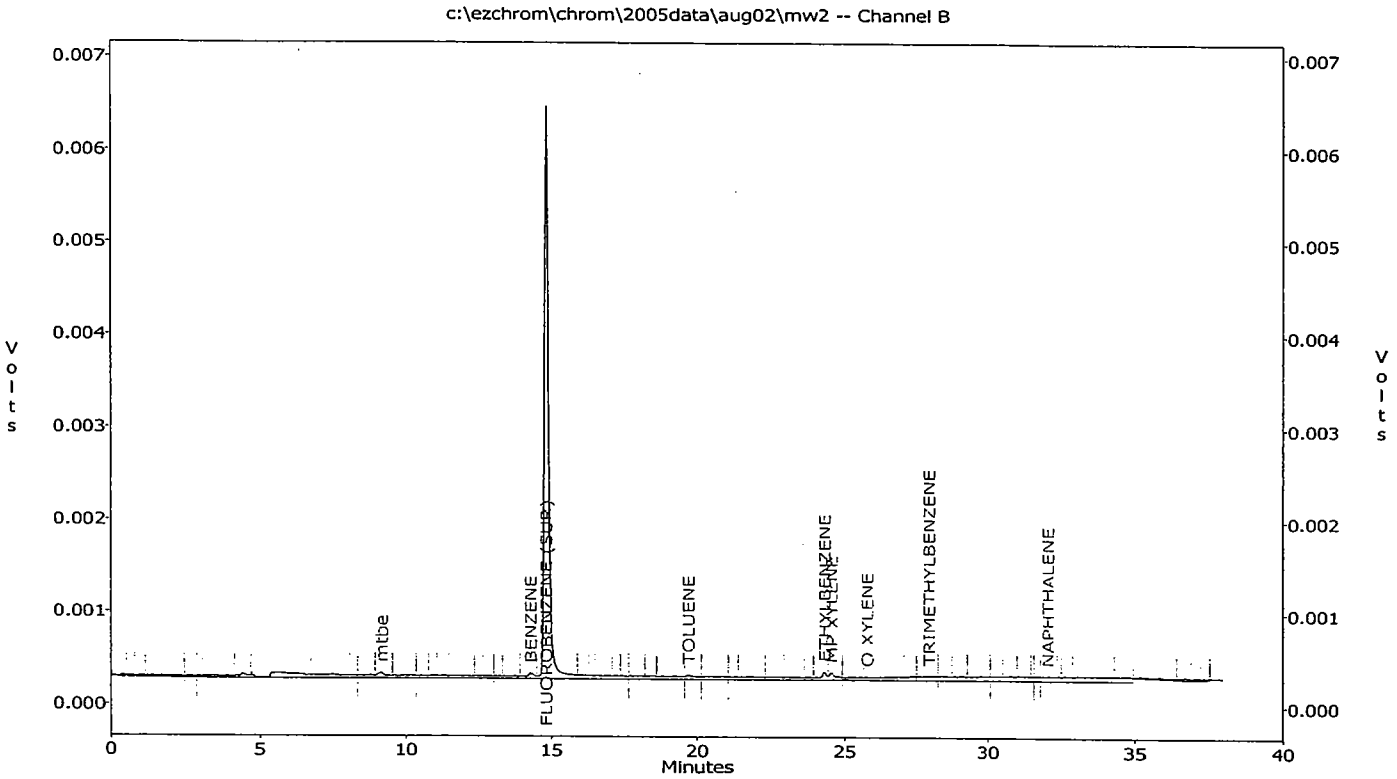
Channel A Results

Name	Time	Area	CONC UG/L
pentane	6.88	5008	0.593
2-Methyl pentane	8.55	2723	0.248
2,2,4-trimethylpe	13.26	75	0.006
FLUOROBENZENE (SU	14.82	1093058	83.130
Nonane	23.53	1754	0.145
n-decane	26.79	8275	9.923
n-butylcyclohexan	28.38	11091	0.745
group 1 5-8		1191530	0.000
group 2 c9-c12		158506	0.000

Channel A Group Results

Name	Time	Area	CONC UG/L
c5-c8		7806	0.847
c9-c12		12845	0.891

pid
File c:\ezchrom\chrom\2005data\aug02\mw2
Method c:\ezchrom\methods\vph\v080205.met
Sample mw2
Acquired Aug 03, 2005 12:41:51



Channel B Results

Name	Time	Area	CONC UG/L
mtbe	9.18	1215	4.806
BENZENE	14.27	1158	0.781
FLUOROBENZENE (SU	14.82	62253	75.155
TOLUENE	19.69	704	0.333
ETHYLBENZENE	24.32	1283	0.748
M&P XYLENE	24.56	1275	0.426
O XYLENE	25.78	346	0.142
TRIMETHYLBENZENE	27.93	1881	0.689
NAPHTHALENE	32.05	1661	10.743
GROUP C9-C10		15068	0.000

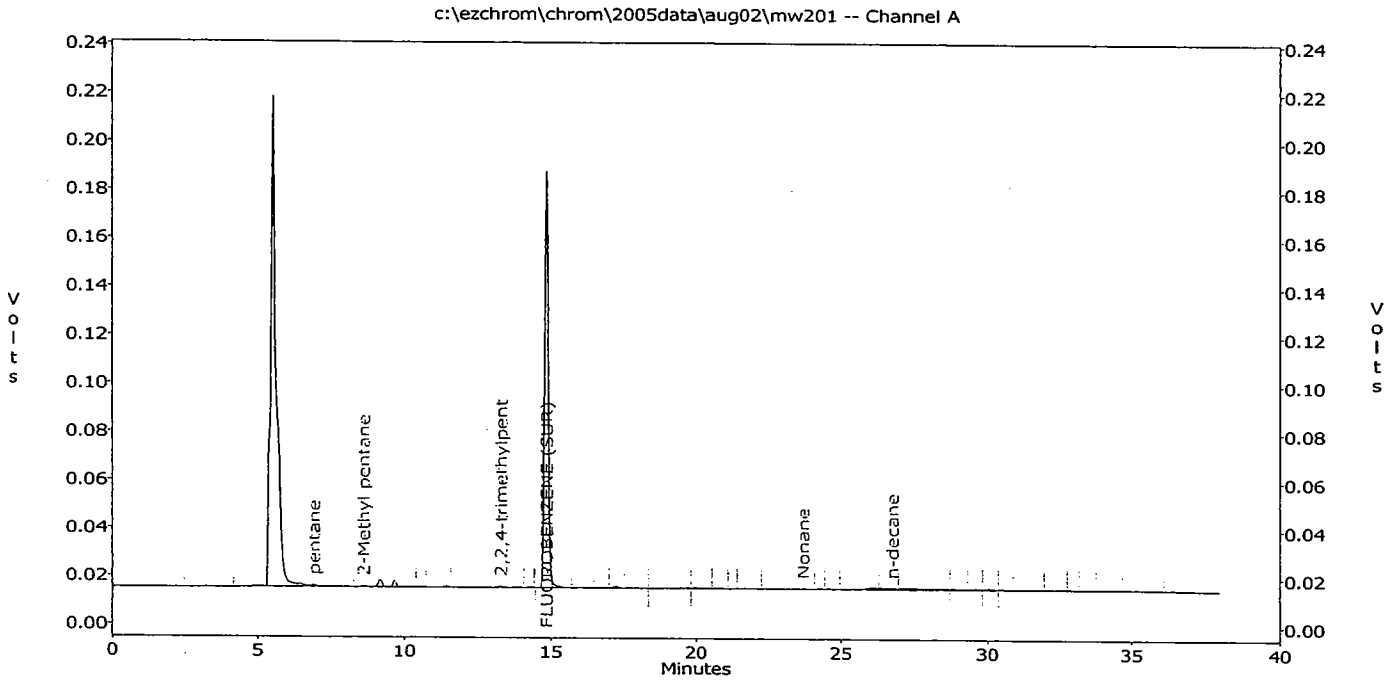
Totals :

		86844	93.822

Channel B Group Results

Name	Time	Area	CONC UG/L
c9-c10		1881	0.689

fid
File c:\ezchrom\chrom\2005data\aug02\mw3
Methoc c:\ezchrom\methods\vph\v080205.met
Sampl mw3
Acquir Aug 03, 2005 13:23:44



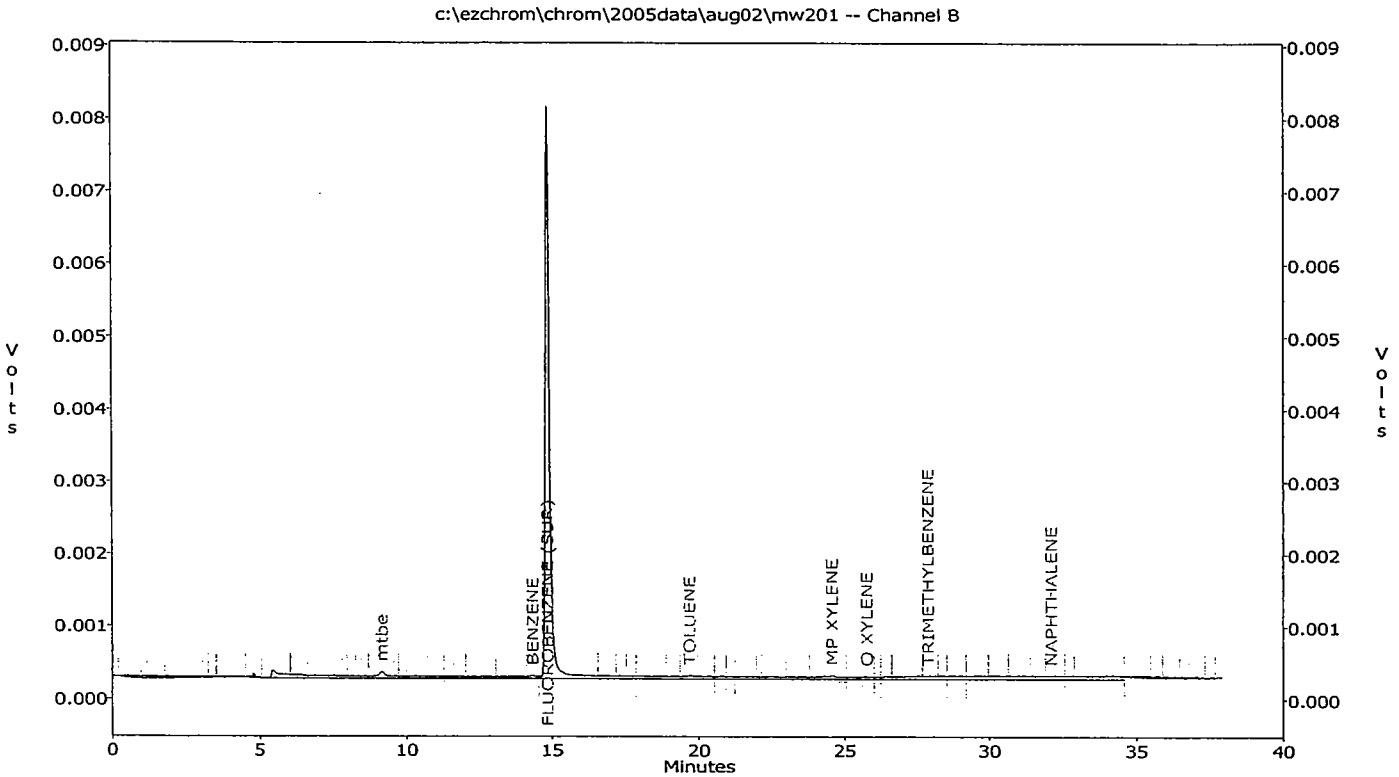
Channel A Results

Name	Time	Area	CONC UG/L
pentane	6.92	8914	1.055
2-Methyl pentane	8.61	3688	0.336
2,2,4-trimethylpe	13.30	4712	0.358
FLUOROBENZENE (SU	14.85	1432912	108.977
Nonane	23.71	6132	0.508
n-decane	26.77	9195	10.027
n-butylcyclohexan	28.13	0	0.000
group 1 5-8		1603231	0.000
group 2 c9-c12		200980	0.000

Channel A Group Results

Name	Time	Area	CONC UG/L
c5-c8		17314	1.749
c9-c12		6132	0.508

pid
File c:\ezchrom\chrom\2005data\aug02\mw3
Metho(c:\ezchrom\methods\vph\v080205.met
Sampl(mw3
Acquir(Aug 03, 2005 13:23:44



Channel B Results

Name	Time	Area	CONC UG/L
mtbe	9.16	2095	8.287
BENZENE	14.33	822	0.554
FLUOROBENZENE (SU	14.84	81110	97.920
TOLUENE	19.67	1371	0.649
ETHYLBENZENE	24.30	0	0.000
M&P XYLENE	24.56	2237	0.747
O XYLENE	25.76	773	0.317
TRIMETHYLBENZENE	27.89	1332	0.371
NAPHTHALENE	32.08	1864	11.111
GROUP C9-C10		14969	0.000

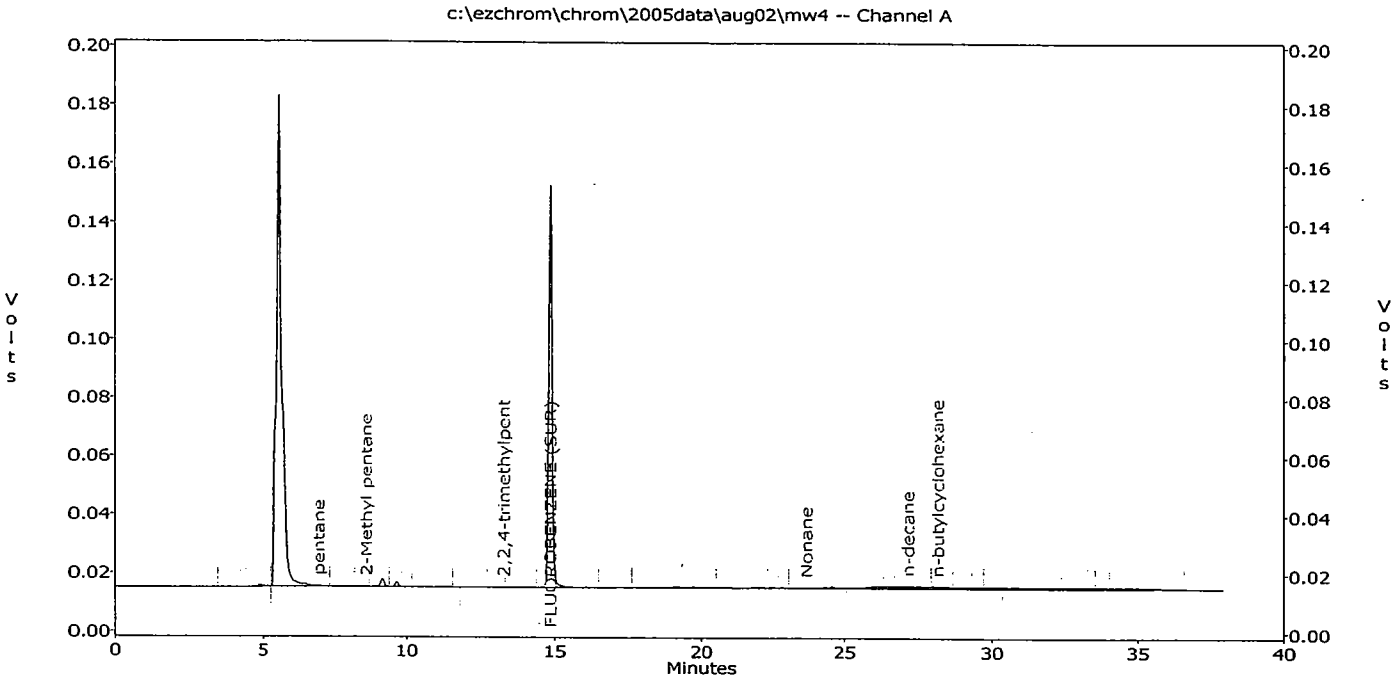
Totals :

		106573	119.956

Channel B Group Results

Name	Time	Area	CONC UG/L
c9-c10		1332	0.371

fid
File c:\ezchrom\chrom\2005data\aug02\mw4
Metho c:\ezchrom\methods\vph\v080205.met
Sampl mw4
Acquir Aug 03, 2005 14:05:34



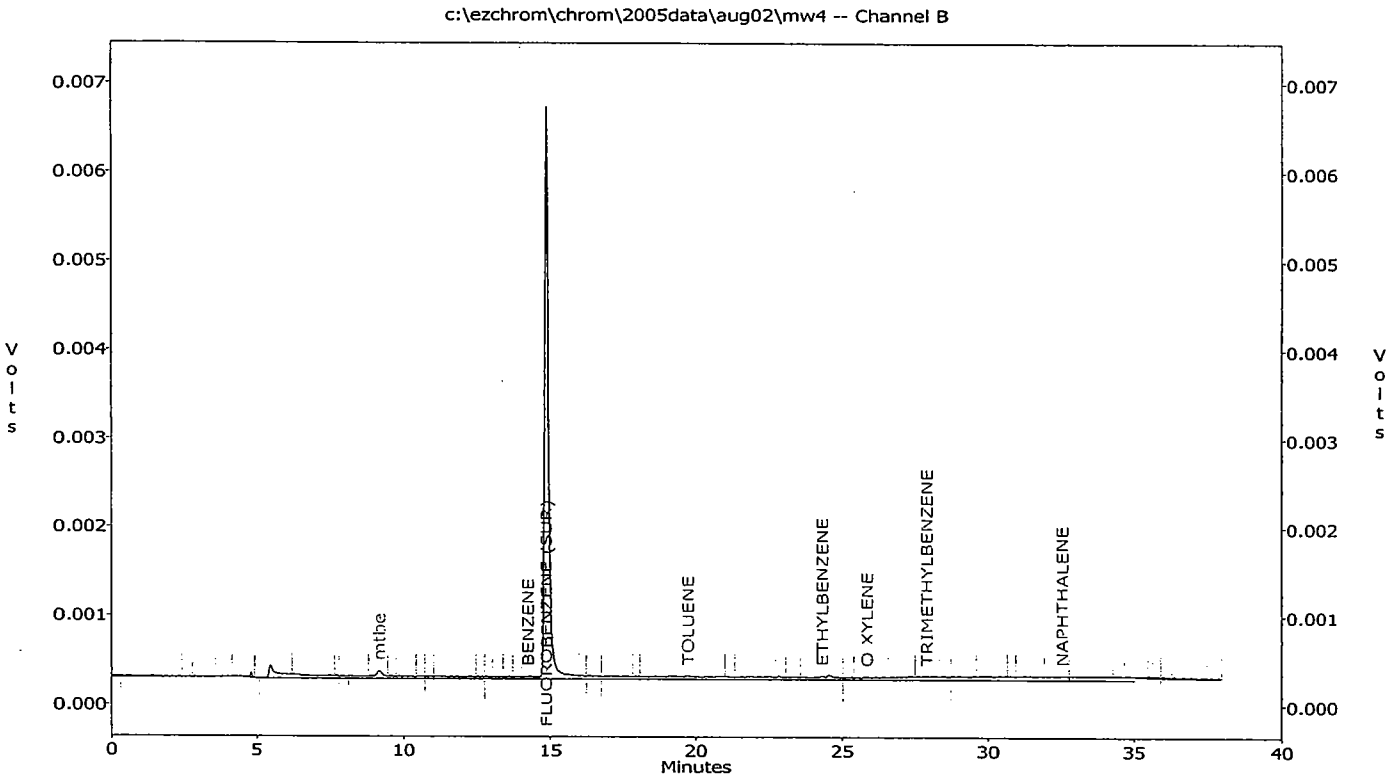
Channel A Results

Name	Time	Area	CONC UG/L
pentane	6.93	4645	0.550
2-Methyl pentane	8.60	613	0.056
2,2,4-trimethylpe	13.27	946	0.072
FLUOROBENZENE (SU	14.86	1138167	86.561
Nonane	23.68	3994	0.331
n-decane	27.15	31193	12.491
n-butylcyclohexan	28.16	19829	1.333
group 1 5-8		1273544	0.000
group 2 c9-c12		236809	0.000

Channel A Group Results

Name	Time	Area	CONC UG/L
c5-c8		6204	0.677
c9-c12		23823	1.664

pid
File c:\ezchrom\chrom\2005data\aug02\mw4
Metho c:\ezchrom\methods\vph\v080205.met
Sampl mw4
Acquir Aug 03, 2005 14:05:34



Channel B Results

Name	Time	Area	CONC UG/L
mtbe	9.18	1785	7.061
BENZENE	14.22	995	0.671
FLUOROBENZENE (SU	14.86	64376	77.718
TOLUENE	19.73	1263	0.597
ETHYLBENZENE	24.33	2124	1.238
M&P XYLENE	24.53	0	0.000
O XYLENE	25.85	1056	0.433
TRIMETHYLBENZENE	27.91	2049	0.786
NAPHTHALENE	32.55	2359	12.006
GROUP C9-C10		15635	0.000

Totals :

		91642	100.510

Channel B Group Results

Name	Time	Area	CONC UG/L
c9-c10		2049	0.786

RESULTS: EXTRACTABLE PETROLEUM HYDROCARBONS

Results for EPH analysis are presented in the following section. Each page is electronically signed. In the hardcopy report, two signatures appear on the approval line – the electronic signature and the handwritten signature.

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C X Other: Received at 19 ° C
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	MW-1
Method for Target Analytes:			Lab ID	Q0728-16
EPH Surrogate Standards			Date Collected	7/28/05
Aliphatic: Chlorooctadecane			Date Received	7/28/05
Aromatic: o-Terphenyl			Date Extracted	8/2/05
EPH Fractionation Surrogates			Date Analyzed	8/3/05
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		50	ug/L	88
Diesel PAH Analytes	Naphthalene	1	ug/L	<1
	2-Methylnaphthalene	1	ug/L	<1
	Phenanthrene	1	ug/L	2
	Acenaphthylene	1	ug/L	<1
Other Target PAH Analytes	Acenaphthene	5	ug/L	<5
	Fluorene	5	ug/L	<5
	Anthracene	5	ug/L	<5
	Fluoranthene	5	ug/L	<5
	Pyrene	5	ug/L	<5
	Benzo(a)anthracene	1	ug/L	<1
	Chrysene	2	ug/L	<2
	Benzo(b)fluoranthene	1	ug/L	1
	Benzo(k)fluoranthene	1	ug/L	<1
	Benzo(a)pyrene	0.2	ug/L	0.6
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5	ug/L	<5
C9-C18 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C19-C36 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C11-C22 Aromatic Hydrocarbons[1,2]		50	ug/L	79
Aliphatic Surrogate % Recovery				65
Aromatic Surrogate % Recovery				69
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				79
Fractionation Surrogate % Recovery				79
Fractionation Surrogate Acceptance Range				40-140%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
[2]C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director
PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C X Other: Received at 19 ° C
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	MW-2
Method for Target Analytes:			Lab ID	Q0728-16
EPH Surrogate Standards			Date Collected	7/28/05
Aliphatic: Chlorooctadecane			Date Received	7/28/05
Aromatic: o-Terphenyl			Date Extracted	8/2/05
EPH Fractionation Surrogates			Date Analyzed	8/3/05
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		50	ug/L	<50
Diesel PAH Analytes	Naphthalene	1	ug/L	<1
	2-Methylnaphthalene	1	ug/L	<1
	Phenanthrene	1	ug/L	<1
	Acenaphthylene	1	ug/L	<1
Other Target PAH Analytes	Acenaphthene	5	ug/L	<5
	Fluorene	5	ug/L	<5
	Anthracene	5	ug/L	<5
	Fluoranthene	5	ug/L	<5
	Pyrene	5	ug/L	<5
	Benzo(a)anthracene	1	ug/L	<1
	Chrysene	2	ug/L	<2
	Benzo(b)fluoranthene	1	ug/L	<1
	Benzo(k)fluoranthene	1	ug/L	<1
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5	ug/L	<5
C9-C18 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C19-C36 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C11-C22 Aromatic Hydrocarbons[1,2]		50	ug/L	<50
Aliphatic Surrogate % Recovery				57
Aromatic Surrogate % Recovery				52
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				67
Fractionation Surrogate % Recovery				64
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

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop SS POSITION: Laboratory Director
PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C X Other: Received at 19 ° C
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	MW-3
Method for Target Analytes:			Lab ID	Q0728-16
EPH Surrogate Standards			Date Collected	7/28/05
Aliphatic: Chlorooctadecane			Date Received	7/28/05
Aromatic: o-Terphenyl			Date Extracted	8/2/05
EPH Fractionation Surrogates			Date Analyzed	8/3/05
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		50	ug/L	<50
Diesel PAH Analytes	Naphthalene	1	ug/L	<1
	2-Methylnaphthalene	1	ug/L	<1
	Phenanthrene	1	ug/L	<1
	Acenaphthylene	1	ug/L	<1
Other Target PAH Analytes	Acenaphthene	5	ug/L	<5
	Fluorene	5	ug/L	<5
	Anthracene	5	ug/L	<5
	Fluoranthene	5	ug/L	<5
	Pyrene	5	ug/L	<5
	Benzo(a)anthracene	1	ug/L	<1
	Chrysene	2	ug/L	<2
	Benzo(b)fluoranthene	1	ug/L	<1
	Benzo(k)fluoranthene	1	ug/L	<1
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5	ug/L	<5
C9-C18 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C19-C36 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C11-C22 Aromatic Hydrocarbons[1,2]		50	ug/L	<50
Aliphatic Surrogate % Recovery				58
Aromatic Surrogate % Recovery				66
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				79
Fractionation Surrogate % Recovery				73
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

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director
PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C X Other: Received at 19 ° C
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	MW-4
Method for Target Analytes:			Lab ID	Q0728-16
EPH Surrogate Standards			Date Collected	7/28/05
Aliphatic: Chlorooctadecane			Date Received	7/28/05
Aromatic: o-Terphenyl			Date Extracted	8/2/05
EPH Fractionation Surrogates			Date Analyzed	8/3/05
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		50	ug/L	<50
Diesel PAH Analytes	Naphthalene	1	ug/L	<1
	2-Methylnaphthalene	1	ug/L	<1
	Phenanthrene	1	ug/L	<1
	Acenaphthylene	1	ug/L	<1
Other Target PAH Analytes	Acenaphthene	5	ug/L	<5
	Fluorene	5	ug/L	<5
	Anthracene	5	ug/L	<5
	Fluoranthene	5	ug/L	<5
	Pyrene	5	ug/L	<5
	Benzo(a)anthracene	1	ug/L	<1
	Chrysene	2	ug/L	<2
	Benzo(b)fluoranthene	1	ug/L	<1
	Benzo(k)fluoranthene	1	ug/L	<1
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5	ug/L	<5
C9-C18 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C19-C36 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C11-C22 Aromatic Hydrocarbons[1,2]		50	ug/L	<50
Aliphatic Surrogate % Recovery				62
Aromatic Surrogate % Recovery				61
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				70
Fractionation Surrogate % Recovery				68
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

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: Mark H. Bishop POSITION: Laboratory Director
PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	Satisfactory Broken Leaking:
Aqueous Preservatives	N/A pH<2 pH>2 Comment:
Temperature	Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	Method Blank
Method for Target Analytes:			Lab ID	Q0728-16
EPH Surrogate Standards			Date Collected	NA
Aliphatic: Chlorooctadecane			Date Received	NA
Aromatic: o-Terphenyl			Date Extracted	8/2/05
EPH Fractionation Surrogates			Date Analyzed	8/3/05
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		50	ug/L	<50
Diesel PAH Analytes	Naphthalene	1	ug/L	<1
	2-Methylnaphthalene	1	ug/L	<1
	Phenanthrene	1	ug/L	<1
	Acenaphthylene	1	ug/L	<1
Other Target PAH Analytes	Acenaphthene	5	ug/L	<5
	Fluorene	5	ug/L	<5
	Anthracene	5	ug/L	<5
	Fluoranthene	5	ug/L	<5
	Pyrene	5	ug/L	<5
	Benzo(a)anthracene	1	ug/L	<1
	Chrysene	2	ug/L	<2
	Benzo(b)fluoranthene	1	ug/L	<1
	Benzo(k)fluoranthene	1	ug/L	<1
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5	ug/L	<5
C9-C18 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C19-C36 Aliphatic Hydrocarbons[1]		50	ug/L	<50
C11-C22 Aromatic Hydrocarbons[1,2]		50	ug/L	<50
Aliphatic Surrogate % Recovery				64
Aromatic Surrogate % Recovery				70
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				88
Fractionation Surrogate % Recovery				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

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

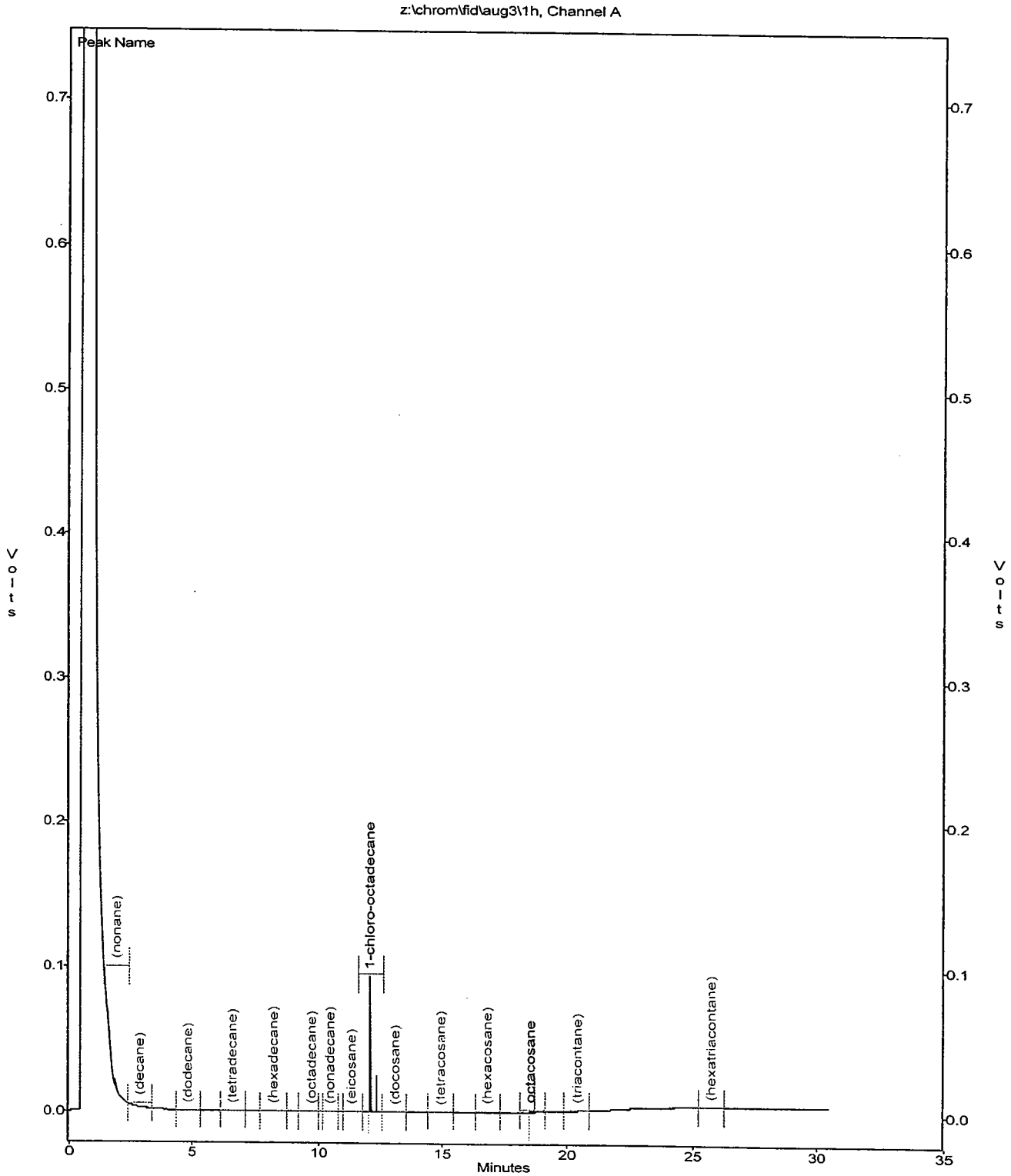
I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

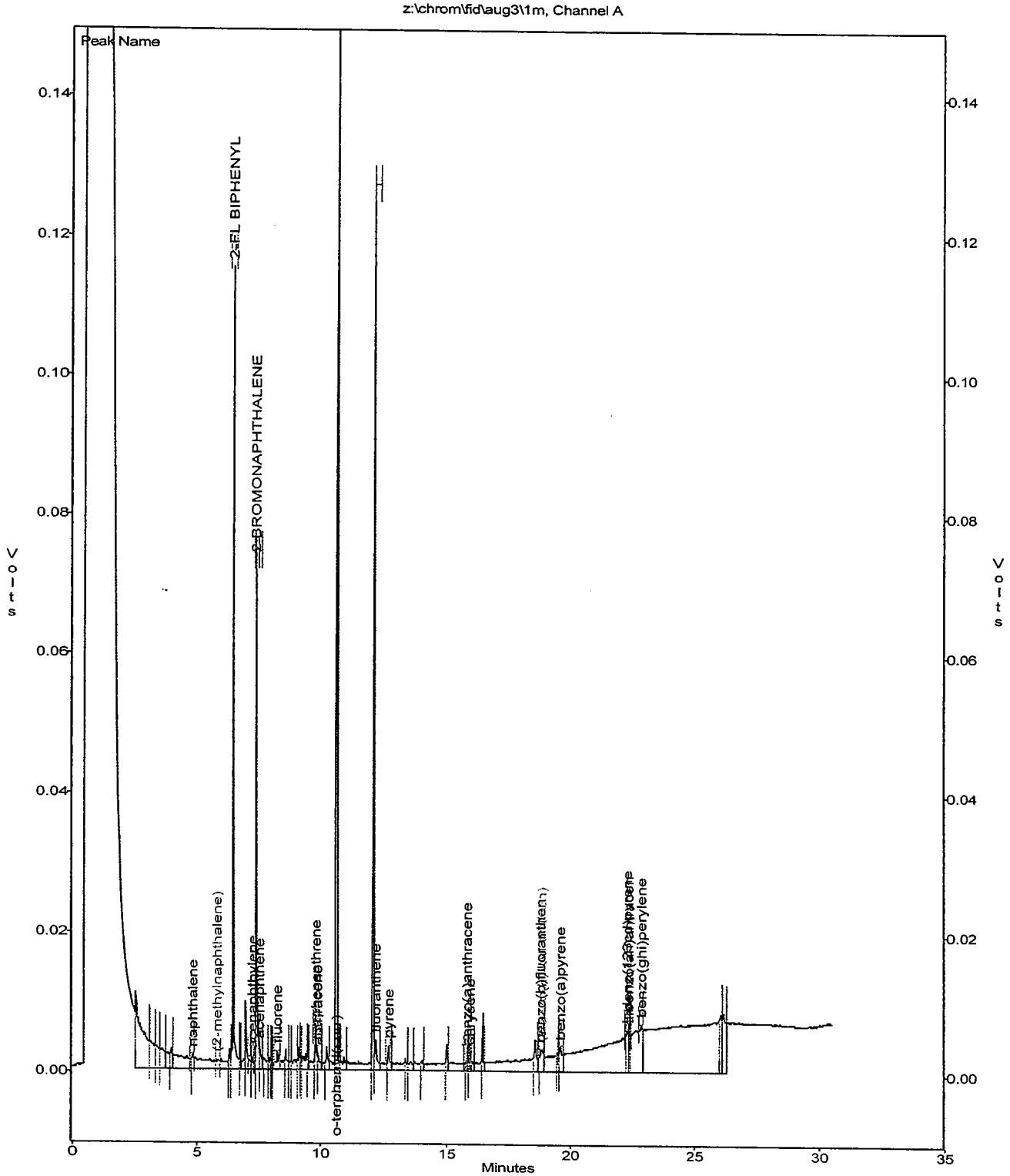
SIGNATURE: Mark H. Bishop POSITION: Laboratory Director
PRINTED NAME: Mark H. Bishop DATE: 8/4/2005

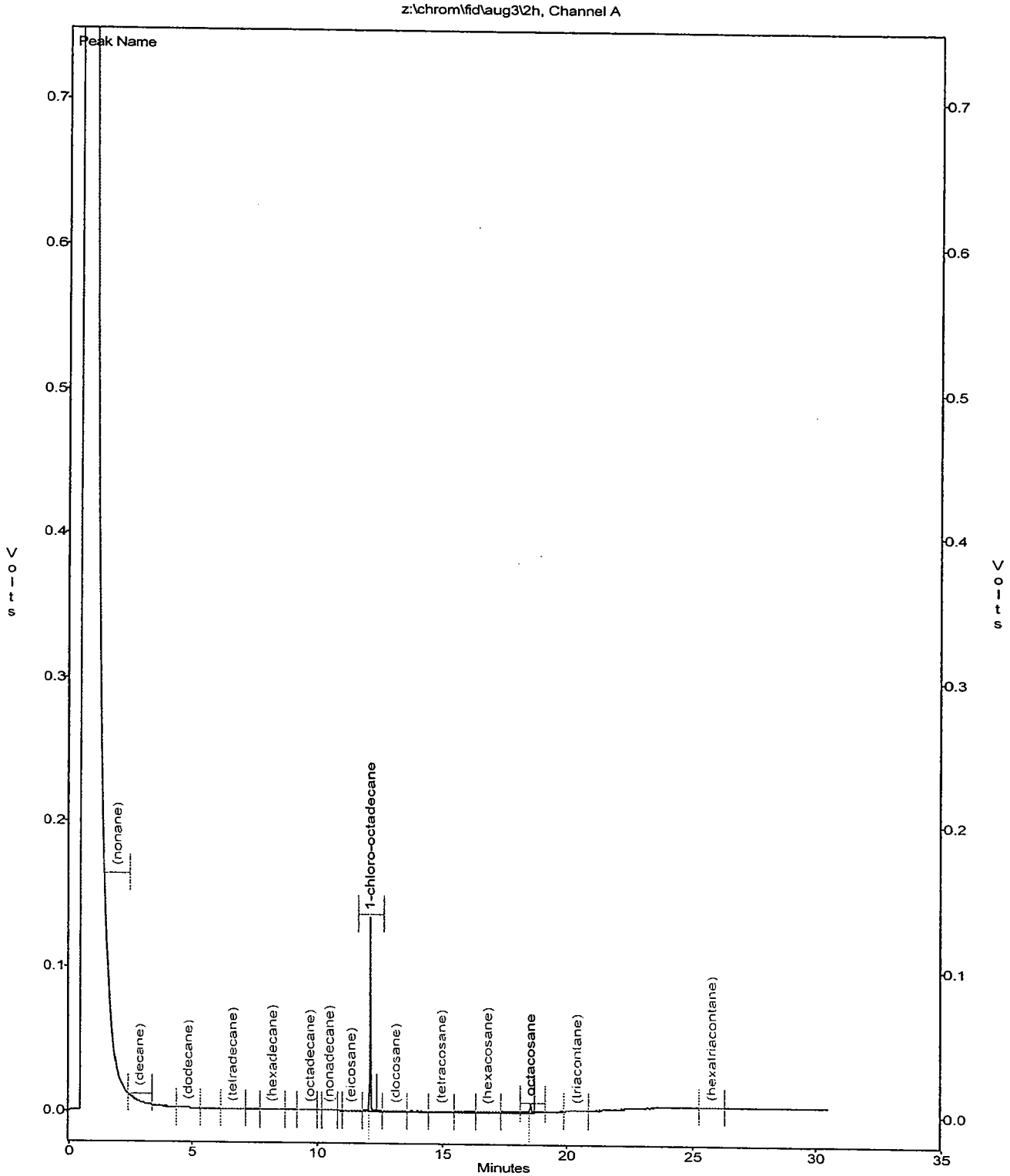
LABORATORY CONTROL SPIKE

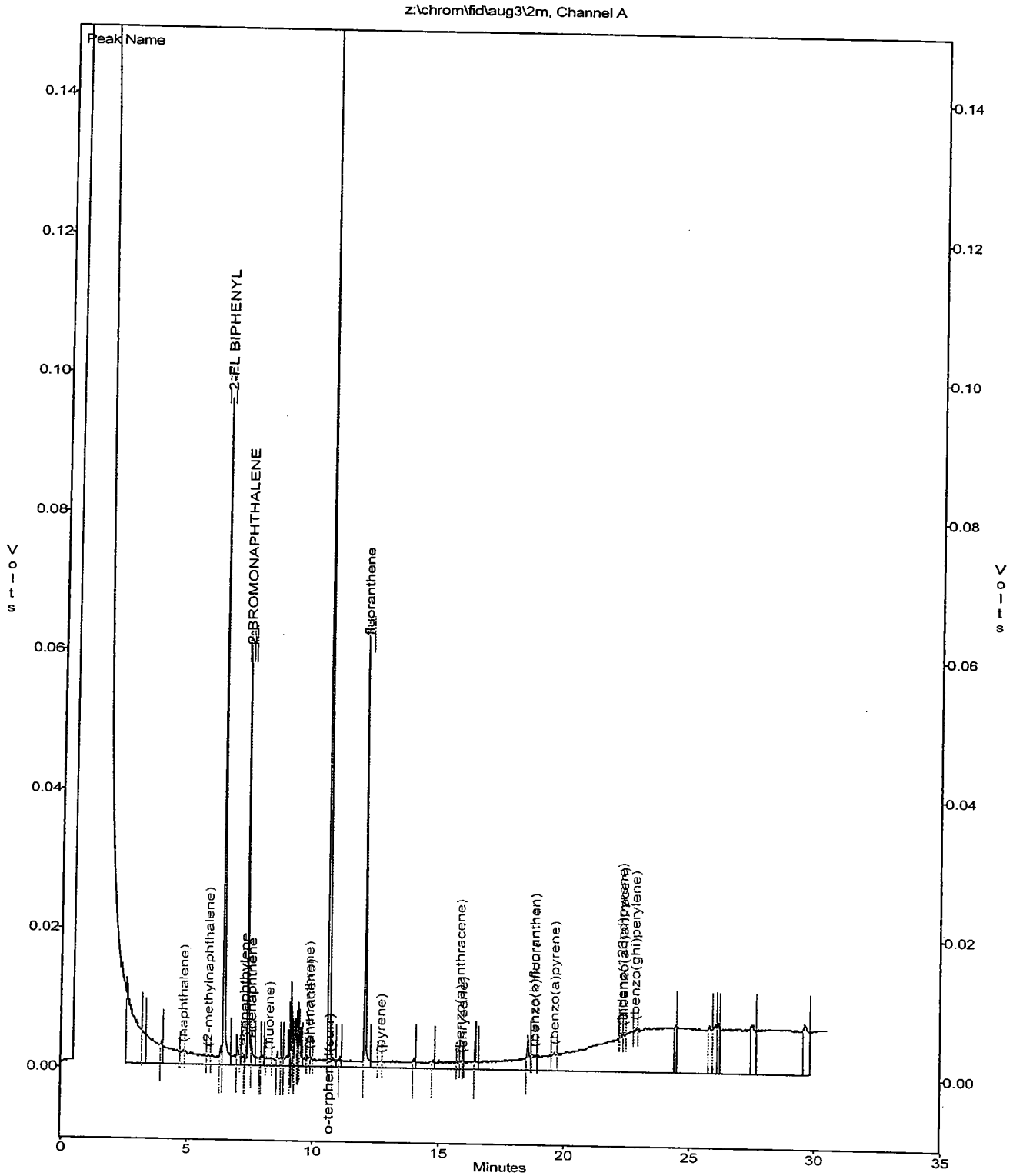
Extractable Petroleum Hydrocarbons
Matrix: Water
Date extracted: 8/2/2005
Date analyzed: 8/4/2005

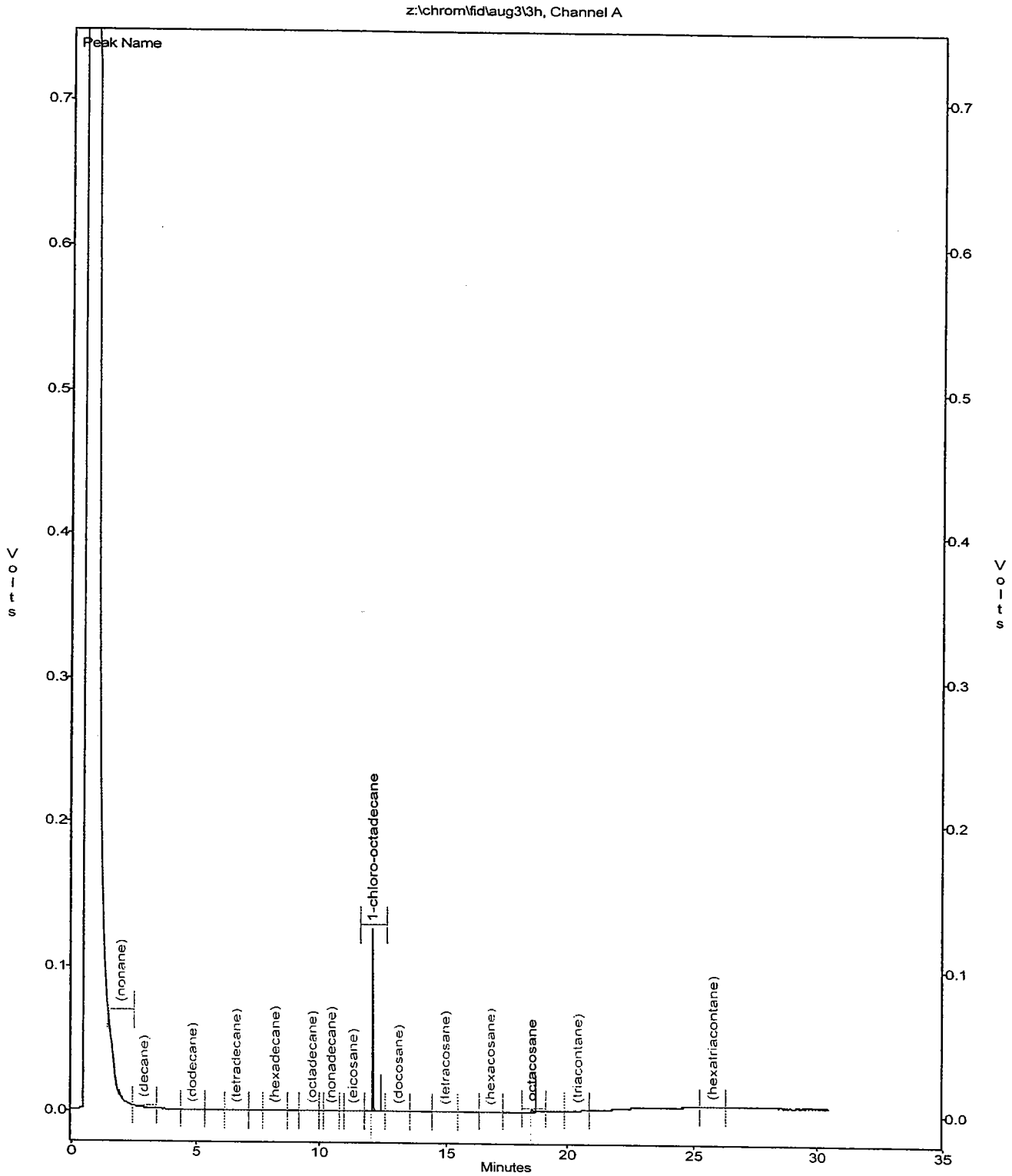
Analyte	TRUE Value	Result, ug/l	Recovery, %	QC Limits
Aliphatics C_9 to C_{18}	240	111	46	40-160
Aliphatics C_{19} to C_{36}	320	193	60	40-160
Aromatics C_{10} to C_{22}	680	378	56	40-160
Naphthalene	40	20	49	40-160
2-Methylnaphthalene	40	19	48	40-160
Acenaphthylene	40	21	54	40-160
Acenaphthene	40	22	56	40-160
Fluorene	40	22	55	40-160
Phenanthrene	40	22	54	40-160
Anthracene	40	21	53	40-160
Fluoranthene	40	23	58	40-160
Pyrene	40	23	57	40-160
Benzo(a)anthracene	40	24	59	40-160
Chrysene	40	23	59	40-160
Benzo(b) fluoranthene	40	23	58	40-160
Benzo(k)fluoranthene	40	24	59	40-160
Benzo(a)pyrene	40	22	56	40-160
Indeno-(1,2,3-cd) pyrene	40	21	52	40-160
Dibenzo(a,h)anthracene	40	26	66	40-160
Benzo(g,h,i)perylene	40	22	56	40-160

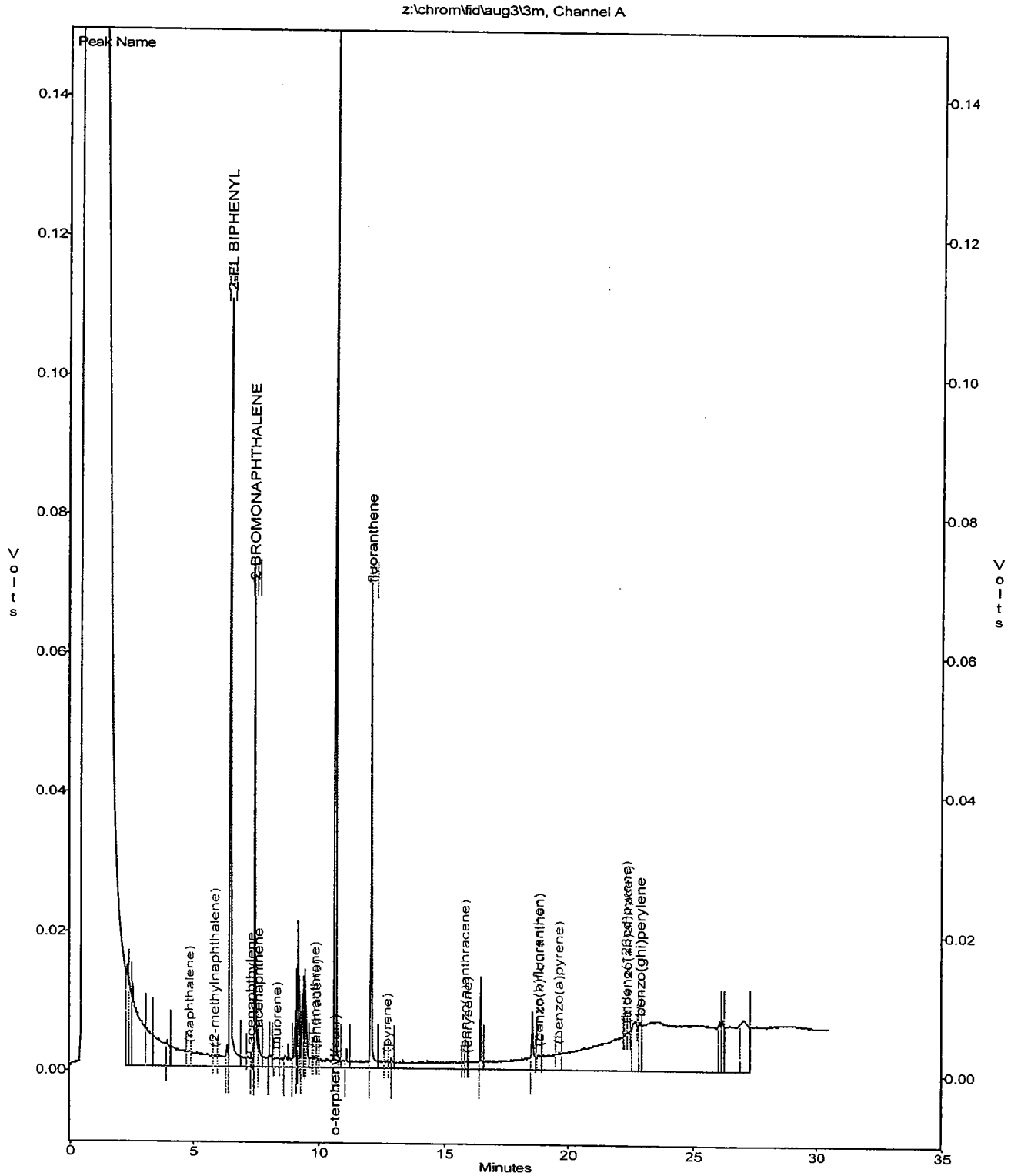

z:\chrom\fid\aug3\1h, Channel A
Peak Name
Volts
Minutes
(nonane)
(decane)
(dodecane)
(tetradecane)
(hexadecane)
(octadecane)
(nonadecane)
(eicosane)
1-chloro-octadecane
(docosane)
(tetracosane)
(hexacosane)
octacosane
(triacontane)
(hexatriacontane)

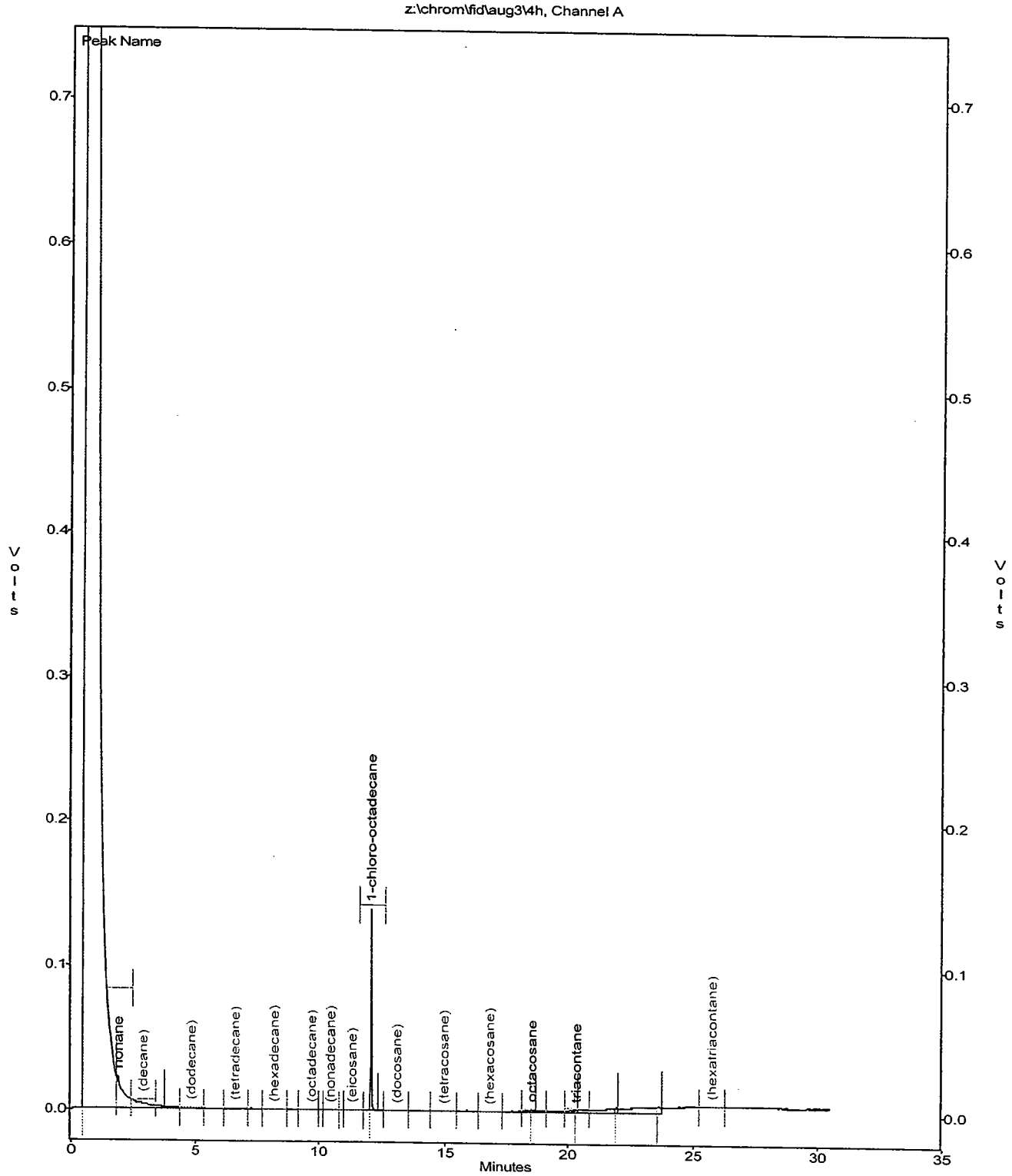

z:\chrom\fid\aug3\1m, Channel A
Peak Name
Volts
Minutes
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
5
10
15
20
25
30
35
naphthalene
(2-methylnaphthalene)
2-FL BIPHENYL
2-BROMONAPHTHALENE
fluorene
o-terphenyl
fluoranthene
pyrene
benzo(a)anthracene
benzo(a)pyrene
benzo(ghi)perylene

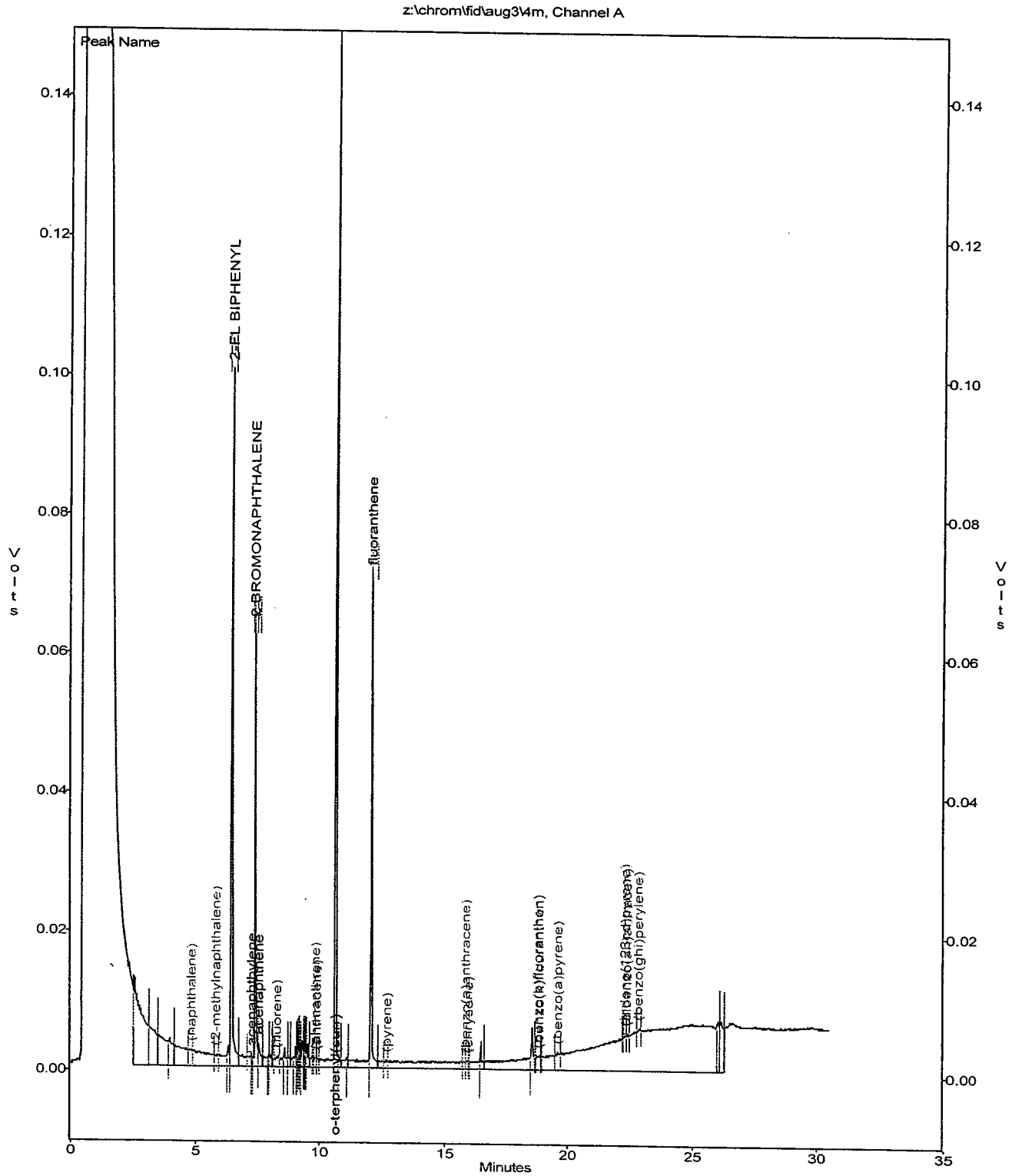

z:\chrom\fid\aug3\2h, Channel A
Peak Name
Volts
Minutes
(nonane)
(decane)
(dodecane)
(tetradecane)
(hexadecane)
(octadecane)
(nonadecane)
(eicosane)
1-chloro-octadecane
(docosane)
(tetracosane)
(hexacosane)
octacosane
(triacontane)
(hexatriacontane)


z:\chrom\fid\aug3\2m, Channel A
Peak Name
Volts
Minutes
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
5
10
15
20
25
30
35
2-EL BIPHENYL
2-BROMONAPHTHALENE
fluoranthene
(naphthalene)
(2-methylnaphthalene)
(fluorene)
(pyrene)
(benzo(a)anthracene)
(benzo(b)fluoranthen)
(benzo(a)pyrene)
(benzo(ghi)perylene)
o-terphenyl


z:\chrom\fid\aug3\3h, Channel A
Peak Name
Volts
Minutes
(nonane)
(decane)
(dodecane)
(tetradecane)
(hexadecane)
(octadecane)
(nonadecane)
(eicosane)
1-chloro-octadecane
(docosane)
(tetracosane)
(hexacosane)
octacosane
(triacontane)
(hexatriacontane)


z:\chrom\fid\aug3\3m, Channel A
Peak Name
2-FL BIPHENYL
2-BROMONAPHTHALENE
fluoranthene
(naphthalene)
(2-methylnaphthalene)
acenaphthylene
acenaphthene
(fluorene)
(pyrene)
(benzo(a)pyrene)
benzo(ghi)perylene
Volts
Minutes
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
5
10
15
20
25
30
35


z:\chrom\fid\aug3\4h, Channel A
Peak Name
Volts
Minutes
nonane
(decane)
(dodecane)
(tetradecane)
(hexadecane)
(octadecane)
(nonadecane)
(eicosane)
1-chloro-octadecane
(docosane)
(tetracosane)
(hexacosane)
octacosane
triacontane
(hexatriacontane)


z:\chrom\fid\aug3\4m, Channel A
Peak Name
Volts
Minutes
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
5
10
15
20
25
30
35
2-EL BIPHENYL
2-BROMONAPHTHALENE
fluoranthene
(naphthalene)
(2-methylnaphthalene)
(fluorene)
(pyrene)
(benzo(a)pyrene)
(benzo(ghi)perylene)

Custody Records

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue
North Providence, RI 02904

CHAIN OF CUSTODY RECORD

PROJ NO:

PROJECT NAME: Hess Real Estate Seekonk 1

CLIENT: EnviroTrac, Ltd

Q0728.16

SAMPLE I.D.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VPH	EPH	RCRA 8 Metals	Vocs by 8260			REMARKS
	7/28/05	2:00		X	MW-1	6	X	X	X	X			Include chromatograms in lab report
		2:15		X	MW-2	6	X	X	X	X			
		2:40		X	MW-3	6	X	X	X	X			
		2:45		X	MW-4	6	X	X	X	X			Bill Attn: John Schenkewitz At Hess Direct. 5 DAY TAT.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Paul Smart	7/28/05 2:50	Eric Dias			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
		J Mattias	7/28/05 1647	Send Results to Eric Simpson Temp: 19° Received on ice	

New England ACCUTEST

IT'S ALL IN THE CHEMISTRY

03/02/06

Technical Report for

RECEIVED MAR 0 6 2006

EnviroTrac

Hess:1 Progress St., Seekonk MA

Accutest Job Number: M54593R

Sampling Date: 02/16/06

Report to:

Envirotrac
1400 Providence Highway
Norwood, MA

ATTN: Brian Snow

Total number of pages in report: 8

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Pand
Lab Director

1956 - 2006
50
YEARS OF EXCELLENCE
Accutest Laboratories

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579) NY (23346) NJ (MA926) NAVY USACE

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Table of Contents

Sections: 1 2 3

-1-

Section 1: Sample Summary 3
Section 2: Sample Results 4
2.1: M54593-1R: MW-1 5
Section 3: Misc. Forms 6
3.1: Chain of Custody 7

Sample Summary

EnviroTrac

Hess:1 Progress St., Seekonk MA

Job No: M54593R

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M54593-1R	02/16/06	00:00 JM	02/16/06	AQ	Ground Water	MW-1

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	M54593-1R	Date Sampled:	02/16/06
Matrix:	AQ - Ground Water	Date Received:	02/16/06
		Percent Solids:	n/a
Project:	Hess:1 Progress St., Seekonk MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Total Residual Chlorine [a]	<0.050	0.050	mg/l	1	03/01/06 14:43	MA	EPA 330.4

(a) Sample analysis requested beyond recommended method holding time.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M54593R
ACCUTEST QUOTE #:

CLIENT INFORMATION
NAME: ENVIROTREAT
ADDRESS: 400 Providence Highway
CITY, STATE, ZIP: Norwood MA 02062
SEND REPORT TO:
PHONE #: Joe Cahaton

FACILITY INFORMATION
PROJECT NAME: Future Hess Station
LOCATION: 1 progress St. Seekonk MA.
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	8270 PAL, 8270 SIM SPC LIST	EDB 504, Total cyanide 335.4	TSS 160.2, 8260	8260 oxygenates + 1,4 Dioxane	PCB 608, Hex Cr	Cr+3, Total Cr, Phenol	pH, TPH 1664, Hg (total)	TOTAL: Antimony, Copper, Lead, Mercury, Nickel	Silver, Zinc, Iron	LAB USE ONLY
	MW-1 M54593-1	2/16/05		SJA	GW	19	▲					X	X	X	X	X	X	X	X	X	
																					13B, 2B, 6B, 1B7
																					1B13

MATRIX CODES
DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION
☐ 14 DAYS STANDARD
☒ 7 DAYS RUSH 5-7days
☐ 48 HOUR EMERGENCY
☐ OTHER
APPROVED BY: SCOTT
14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION
☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)
SAMPLES RECEIVED DIRECTLY FROM FIELD SAMPLING

COMMENTS/REMARKS
Bill Hess Direct
Include Chromatograms

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Mondello	2/16/05 2:15	1. [illegible]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 11.5 C

M54593R: Chain of Custody
Page 1 of 2

Betty Baer

From: Sue Cahalan [suec@envirotrac.com]
Sent: Tuesday, February 28, 2006 4:22 PM
To: Betty Baer
Subject: RE: Job # M54593

Yes for the app, will re-confirm later

From: Betty Baer [mailto:bettyb@accutest.com]
Sent: Tuesday, February 28, 2006 4:20 PM
To: Sue Cahalan
Subject: RE: Job # M54593
Importance: High

Sue, TRC is out of HOLD time. We do have enough unpreserved to run. Let me know if you want to run out of HOLD.

Betty

---Original Message---
From: Sue Cahalan [SMTP:suec@envirotrac.com]
Sent: Tuesday, February 28, 2006 4:02 PM
To: Betty Baer
Subject: Job # M54593

Could you run total residual chlorine (TRC) ASAP for a RGP. Thanks in advance

Susan Cahalan, P.G.
Geologist/Project Manager
EnviroTrac Ltd.
1400 Providence Highway
Suite 2100
Norwood, Massachusetts 02062
Phone: 781-769-5005
Fax: 781-769-9345
suec@envirotrac.com