



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 1  
1 CONGRESS STREET, SUITE 1100  
BOSTON, MASSACHUSETTS 02114-2023

RCRA RECORDS CENTER  
FACILITY ISELI CO  
I.D. NO. CTD083343269  
FILE LOC. A-13  
OTHER \_\_\_\_\_

FRN12

November 16, 1999

Ms. Deborah Slocum  
Iseli Co.  
Greystone Road  
Terryville, CT 06786

Re: RCRA Corrective Action  
Iseli Company  
EPA ID No. CTD083343269

Dear Ms. Slocum:

The United States Environmental Protection Agency (EPA) is pleased to inform you that EPA has determined that the Iseli Company facility has achieved the federal Environmental Indicator (EI) goal *Current Human Exposures Under Control*. This EI was originally set forth in a July 29, 1994 memorandum by then Director of EPA's Office of Solid Waste, Michael Shapiro. This memorandum has been the subject of recent amendments; the most current amendment to the EI is set forth in a February 5, 1999 Interim Final memorandum under Acting Director of EPA's Office of Solid Waste, Elizabeth Cotsworth.

This is an interim goal meaning that the environmental conditions at a given site/facility do not pose a current risk to human health. You should be aware, therefore, that any change in facility operations or land use which results in a human health exposure scenario would affect this determination.

Also, because this is an interim goal, facilities that achieve the goal of Current Human Exposures Under Control should be aware that they will be expected to achieve the goal of a final remedy at some point in the future. Facilities should be particularly careful when considering construction activities which could ultimately impact the ability to achieve a final remedy.

Thank you for your continuing commitment to environmental excellence. I look forward to working with you on achieving the *Migration of Contaminated Groundwater Under Control* EI and, ultimately, the final remediation of the Iseli Company facility. If you have any questions, please do not hesitate to contact me at (617) 918-1369.

Sincerely,

Ernest R. P. Waterman,  
RCRA Corrective Action Section

cc: M. Hoagland EPA  
D. Ringquist CT DEP

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DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action  
Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures Under Control

Facility Name: Iseli Company  
Facility Address: 651 Greystone Road, Terryville CT 06786  
Facility EPA ID #: CTD 083343269

1. Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?

If yes - check here and continue with #2 below.

If no - re-evaluate existing data, or

if data are not available skip to #6 and enter "IN" (more information needed) status code.

**BACKGROUND**

**Definition of Environmental Indicators (for the RCRA Corrective Action)**

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

**Definition of "Current Human Exposures Under Control" EI**

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

**Relationship of EI to Final Remedies**

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

**Duration / Applicability of EI Determinations**

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).



Item 2 Addendum:

Groundwater -

A groundwater plume stems from the former waste oil and waste mineral spirits underground storage tanks (USTs), which were located adjacent to one another. Figure 1 attached shows on-site monitoring wells; Table I attached summarizes groundwater quality data from 1996 through 1999 for these on-site wells. In particular, refer to the groundwater quality data for wells OW4, OW7 cluster, B102-OW cluster, B103-OW through B105-OW, B301-OW cluster, B402-OW cluster and B408-OW cluster, which are located within the plume, for an identification of the contaminants known to be present in the plume. In general, the contaminants include common chlorinated and petroleum-based volatile organic compounds (VOCs).

The attached table also indicates in bold those contaminants which have been found in groundwater in excess of the appropriate Connecticut ground-water remediation standards (i.e., the surface-water protection, volatilization and ground-water protection criteria). The criteria exceedances are primarily due to the ground-water protection criteria which are designed to be protective of drinking water resources. A detailed description of the nature, degree and extent of groundwater contamination stemming from these USTs is contained in the "Revised Closure Plan Part 2 Document Remedial Investigation - Former Hazardous Waste USTs" dated April 1999.

On-site process water/drinking water wells (PW-1, PW-2, DW-1 and DW-2) have also been found to contain one or more chlorinated VOCs (see attached figure titled "Location Map Showing Nearby Residences Using Private On-Site Drinking Water Wells" dated January 1992 for these well locations). Only wells PW-1 and PW-2 are still in use. DW-1 and DW-2 were historically used for drinking water supply but have been disused since the early 1990s since water of adequate quality and quantity was already available from the higher yielding PW wells. Water pumped from the PW wells is passed through a series of granular activated carbon canisters to remove the VOCs prior to usage of the water. Iseli routinely monitors the effectiveness of this water treatment system, and the quality of its drinking water supply. To the best of our knowledge, Iseli's drinking water supply (i.e., the effluent from the treatment system) has never contained VOCs at concentrations exceeding the relevant drinking water standards. Chlorinated VOC contamination was first detected in the PW wells in the late 1970s.

Due to such contamination and the presence of nearby private drinking water supply wells/springs (see previously-referenced figure), a notification to the Connecticut DEP under Public Act 98-134 was made in March 1999 regarding the presence of a significant environmental hazard (a copy of which has already been provided to the DEP and U.S. EPA). This notification summarizes recent groundwater quality data for these water supplies, and data gathered through 1996 for the nearby private drinking water supplies. Monitoring of the private drinking water supplies was conducted most recently in 1991, 1996 and 1999. The aforementioned June 1999 monitoring report summarizes the results of testing of both on-site monitoring wells and off-site private drinking water supplies within 500 ft. of the groundwater plume. Since that notification was filed, Iseli has continued to conduct its routine on-site water supply monitoring program; the attached spreadsheet summarizes the historic and most recent water quality data for these wells. Iseli has committed to a semi-annual monitoring program for nearby private drinking water wells (described further below under Item 4).

**Subsurface Soil -**

Several areas of concern (AOCs) were identified at this site by the U.S. Environmental Protection Agency during completion of its Preliminary Assessment in 1992, and by ALTA Environmental Corporation (ALTA). A summary list of the AOCs identified by EPA is attached; additional AOCs investigated by ALTA have included two interior former hazardous waste container storage areas.

ALTA met on-site with Mr. Ernest Waterman of the U.S. EPA Region I office on July 12, 1999 to discuss the RCRA corrective action stabilization goals and to what extent this facility could demonstrate attainment of these goals. As of this site visit, most of the identified AOCs had been investigated, the results of which are summarized in the following reports:

- • "Site Assessment Report, Western Pacific Industries, Iseli Company, Terryville, Connecticut" prepared by HRP Associates Inc. dated November 1986
- "Phase II Site Investigation Iseli Company Terryville, Connecticut" prepared by Hunter/BCA Consulting Engineers dated February 1990
- "Report on Investigation and Removal of Abandoned Drums, Iseli Company Facility, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated January 1996
- "Revised RCRA Closure Plan Part 1 Document for Hazardous Waste Management Units, Iseli Company, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated July 1998
- • "Invitation to Bid, Design/Build Services for Contaminant Remediation System, Iseli Company, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated December 1998
- "Addendum to Revised RCRA Closure Plan Part 1 Document, Iseli Company, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated 21 April 1999
- "Revised Closure Plan Part 2 Document Remedial Investigation - Former Hazardous Waste USTs, Iseli Company, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated April 1999
- "RCRA Closure Plan Part 2 Document for Two Former Hazardous Waste Container Storage Areas, and Former Waste Acid UST System, Iseli Company, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated April 1999
- "RCRA Closure Plan Part 3/Post-Closure Plan, Seven Hazardous Waste Management Units, Iseli Company, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated July 1999
- "Results of Groundwater and Tap Water Monitoring - June 1999, Iseli Company, Terryville, Connecticut" prepared by ALTA Environmental Corporation dated July 1999

These reports indicate the presence of subsurface soil contamination adjacent to/beneath the former waste acid, waste oil and waste mineral spirits USTs which exceeds one or more risk-based direct exposure criteria (DEC) for analytes of concern. Specifically, beryllium was found at levels exceeding Connecticut's residential and industrial/commercial DEC of 2 mg/kg in soil from 10 to 15 ft. below ground surface (bgs) by the former waste acid UST, while tetrachloroethylene (PCE) was found above its residential DEC in soil from 13 to 15 ft. bgs by the former waste oil and mineral spirits USTs, and above both residential and industrial/commercial DEC in soil from 11.5 to 13.5 ft. bgs by the former waste acid UST (see aforementioned reports for additional details regarding this contamination).

Subsequent to this site visit, ALTA completed an investigation of the only remaining AOCs which had not been addressed at that time (i.e., the southerly vacant lot where miscellaneous debris had reportedly been stored in the past, and the EPA-designated "vault" (a concrete pad) reported by Iseli to have been part of a former chicken coop). Additionally, EPA noted during the site visit that there was water flowing in only one of the stormwater outfalls from the facility, and given the extremely dry period

prior to the visit inferred that shallow groundwater was likely discharging to this outfall. Consequently, ALTA collected a sample of surface water from this outfall (SW-1) on 19 August 1999. This sample was tested for VOCs by EPA Method 8260; no VOCs were detected (see attached laboratory results, with sampling location shown on attached Figure 1).

To assess the nature of the concrete pad referred to by EPA as a "vault", Mr. John Shea of Iseli broke up the pad into small pieces so that Iseli, EPA and ALTA could inspect the underlying materials (e.g., to see if there was actually a vault beneath the pad). On 19 August 1999, ALTA observed the ground surface beneath the broken up pad and probed into the underlying soil. Additionally, ALTA reviewed stereographic pairs of historic aerial photographs maintained at the DEP for indications of any pertinent features in the area of the reported vault. ALTA observed a long, rectangular light-colored area that did not have any noticeable relief on several of the historic photos, and no indications of any other structures in this area. No voids or other indications of the presence of a vault were observed, hence ALTA concluded that no further investigations were warranted at this AOC which was apparently nothing more than a remnant of a former chicken coop.

ALTA collected ten surficial soil samples from the southerly vacant lot area on 19 August 1999 (see Figure 1 attached for sample locations). These samples were collected using pre-cleaned hand equipment and tested for VOCs by EPA Method 8260, site-specific metals (by mass and SPLP analyses) and total petroleum hydrocarbons by EPA Method 418.1. The results of these investigations are summarized on Table I attached titled "Summary of Results of Laboratory Soil Analyses, Iseli Company Investigation of Former Vacant Lot". Laboratory reports are also included as an attachment to this document since a report has not yet been issued for this AOC investigation. Soil contaminant levels at this AOC were not found to exceed appropriate risk-based levels protective of human health exposures.

All of the aforementioned investigations have not revealed any surface soils to be impacted above appropriate risk-based levels. The only subsurface soils encountered which were impacted above appropriate risk-based levels were those discussed above (i.e., beryllium at the former waste acid UST, and PCE at the three former waste USTs).

Finally, during ALTA's discussions with Mr. Waterman of the U.S. EPA, three of the AOCs identified by the EPA (AOC #3, AOC #6 and AOC #8) were determined to not warrant any investigations for the following reasons: the former underground storage tank located in the southeastern corner of the building installed in 1982 (AOC #3) was never used according to Iseli personnel; the former pit leading to the septic field (AOC #6) was situated beneath piping used to convey sanitary wastes from one of the on-site employee bathrooms to the on-site septic system with no inferred potential for industrial chemicals/wastes to have entered this portion of the system; and site reconnaissance and limited testing of the storm water outfalls (AOC #8) indicated no need for further investigations there due to the inferred low or no potential for site contaminants to enter these outfalls.

**Current Human Exposures Under Control  
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3. Are there complete pathways between "contamination" and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

Potential Human Receptors (Under Current Conditions)

<u>"Contaminated" Media</u>	Residents	Workers	Day-Care	Construction	Trespassers	Recreation	Food <sup>3</sup>
Groundwater	<u>Yes</u>	<u>Yes</u>	<u>No</u>	<u>No</u>			<u>No</u>
Air (indoors)	—	—	—				
Soil (surface, e.g., <2-ft)	—	—	—				
Surface Water	—	—			—	—	—
Sediment	—	—			—	—	—
Soil (subsurface e.g., >2 ft)	—	—		<u>No</u>			<u>No</u>
Air (outdoors)	—	—	—	—	—		

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors' spaces for Media which are not "contaminated" as identified in #2 above.
2. enter "yes" or "no" for potential "completeness" under each "Contaminated" Media - Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential "Contaminated" Media - Human Receptor combinations (Pathways) do not have check spaces ("\_\_\_"). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

- \_\_\_\_\_ If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).
- X If yes (pathways are complete for any "Contaminated" Media - Human Receptor combination) - continue after providing supporting explanation.
- \_\_\_\_\_ If unknown (for any "Contaminated" Media - Human Receptor combination) - skip to #6 and enter "IN" status code

Rationale and Reference(s):

see Item 3 addendum

<sup>3</sup> Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

Item 3 Addendum:

Based on current land and groundwater use conditions, the only potentially complete pathways between contamination at this facility and human receptors relate to use of groundwater for drinking water supply both on site and at nearby residences. ALTA does not believe that exposure to the soils which exceed DEC at depths of 10 ft. bgs and deeper is reasonable based on current land use conditions. As discussed earlier, chlorinated VOCs have been found in water from on-site bedrock wells used for both process water and drinking water supply (the "PW series"), and this supply has been treated using a series of GAC canisters with routine monitoring of the treatment system and treated water supply. Such monitoring has shown that VOC levels in the treated water supply have never exceeded any drinking water standards. Such water treatment and monitoring is ongoing by Iseli, with the monitoring results transmitted to and reviewed periodically by the Connecticut Department of Public Health.

Published geologic information pertinent to the site and its environs indicates that the bedrock foliation planes (inferred to be coincident with the predominant bedrock fracture plans in the area) strike northeasterly and dip toward the northwest at an approximately 35° angle, while the ground surface and bedrock topography slope downwards in the northerly/northeasterly direction. Based on this information, the direction(s) of shallow groundwater flow within the bedrock aquifer beneath and nearby the site most likely falls within the range of southwesterly to northeasterly. Nearby private drinking water supplies are located southwesterly, westerly, northwesterly and easterly of the site. Of the fifteen residential water supplies within 500 ft. of the overburden plume, ALTA believes that up to twelve of those tap the bedrock aquifer; two residences located west of the site obtain their supply from a shared spring that flows out of the base of a hill that rises steeply to the west, and one residence immediately south of the site obtains its supply from a shallow dug well located on the steep hillside which rises upwards to the south. Hence, ALTA inferred that it is highly improbable that the spring or dug well would be impacted by the Iseli VOC plume, and that the bedrock water supply wells could potentially be impacted by this plume. Consequently, Iseli undertook a water supply monitoring program (as discussed above), and intends to continue such a program on a semi-annual basis (discussed further below).



Item 4 Addendum:

Exposures from the identified complete or potentially complete pathways are not expected to be significant given the historic nature of the release, and demonstrated consistent and suitable quality of treated water from the on-site PW wells and of water from the nearby private drinking water supplies. Monitoring of the thirteen to fifteen water supplies within 500 ft. of the overburden groundwater plume in 1991, 1996 and 1999 has shown non-detectable levels of VOCs. Given the historic nature of the chlorinated VOC impacts to the bedrock aquifer at this site (which date back to the late 1970s) and the removal of the leaking USTs in 1988, ALTA expects that the likelihood of detecting contamination in these private drinking water supplies in the future is very low. Nonetheless, Iseli is committed to semi-annual monitoring (Spring and Fall) of ten of the twelve bedrock water supply wells for VOCs to ensure that conditions do not change. The two wells on Hancock Court which are much farther away will not be included in this ongoing program. Should any VOCs be detected in any of the private water supply wells, the following actions will be taken at a minimum:

- within 7 days of receipt of the initial results, re-sample the supply in which VOCs were found, and test the sample for VOCs by EPA Method 524, to confirm whether or not the supply is impacted by VOCs;
- if VOC impacts from this facility are confirmed but VOC concentrations are below the relevant drinking water standards, Iseli will initiate quarterly monitoring of such water supplies for VOCs by EPA Method 524 until such time that the monitoring results consistently demonstrate VOC concentrations below 50% of the drinking water standards, at which time, the monitoring frequency will be reduced to semi-annually;
- if VOC impacts from this facility are confirmed at any time with VOC concentrations above any relevant drinking water standards, Iseli will immediately begin to supply that residence with a potable short-term drinking water supply (e.g., bottled water) and will evaluate long-term potable water supply options and implement the most feasible option; and
- if treatment of the water supply is chosen as the means of providing a potable water supply, Iseli will conduct routine monitoring (i.e., monthly) of the effectiveness of the treatment system and quality of the treated water supply, to ensure maintenance of a potable water supply.



**Current Human Exposures Under Control**  
**Environmental Indicator (EI) RCRIS code (CA725)**  
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6. Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (and attach appropriate supporting documentation as well as a map of the facility):

**YE** - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the \_\_\_\_\_ facility, EPA ID # \_\_\_\_\_, located at \_\_\_\_\_ under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

**NO** - "Current Human Exposures" are NOT "Under Control."

**IN** - More information is needed to make a determination.

Completed by (signature) E = U = Date 10-4-1999  
(print) Ernest Waterman  
(title) Geologist

Supervisor (signature) Matthew R. Abouglund Date 11/12/99  
(print) Matthew R. Abouglund  
(title) Section Chief  
(EPA Region or State) Region I

Locations where References may be found:

Connecticut DEP 79 Elm St. Hartford CT  
U.S. EPA Region I Boston MA  
Iseli Company facility, Terryville CT  
ALTA Environmental Corporation, Colchester CT

Contact telephone and e-mail numbers

(name) Kelly McLeay (Alta Environmental)  
(phone #) 800-537-2582  
(e-mail) \_\_\_\_\_

**FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE SCREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.**

**US EPA New England  
RCRA Document Management System (RDMS)  
Image Target Sheet**

**RDMS Document ID# 698**

<b>Facility Name:</b> <u>Iseli Company</u>	
<b>Phase Classification:</b> <u>R-13</u>	
<b>Document Title:</b> <u>Environmental Indicator (EI) Determination, Migration of Contaminated Groundwater Under Control (CA 750 YE) - Iseli Co</u>	
<b>Date of Document:</b> <u>11-12-1999</u>	
<b>Document Type:</b> <u>EI Determination</u>	
<b>Purpose of Target Sheet:</b>	
<input checked="" type="checkbox"/> <b>Oversized</b>	<input type="checkbox"/> <b>Privileged</b>
<input type="checkbox"/> <b>Page(s) Missing</b>	<input type="checkbox"/> <b>Other</b> (Please Provide Purpose Below)
<hr/> <hr/> <hr/> <hr/>	
<b>Comments:</b> <u>Site Plan</u>	

\* Please Contact the EPA New England RCRA Records Center to View This Document \*



TABLE I

SUMMARY OF RESULTS OF LABORATORY GROUNDWATER ANALYSES (1,2,3)  
 ISEL COMPANY REMEDIAL INVESTIGATION  
 TERRYVILLE, CONNECTICUT

SAMPLE DESIGNATION SAMPLING DATE	OW1 20-Aug-96	OW1 4-June-99	OW2 20-Aug-96	OW2 4-June-99	OW3 20-Aug-96	OW3 4-June-99	OW4 20-Aug-96	OW5 19-Aug-96	OW6 19-Aug-96	OW6 4-June-99	GWPC	SWPC	Volatilization Criteria	
													Residential	Ind./Comm.
<b>VOCs (ug/l)</b>														
Benzene	---	---	---	---	---	---	---	---	---	---	1	710	215	530
n-Butylbenzene	NA	---	NA	---	NA	---	NA	NA	NA	---	61	NE	NE	NE
sec-Butylbenzene	NA	---	NA	---	NA	---	NA	NA	NA	---	61	NE	NE	NE
1,1-Dichloroethane	---	---	---	---	---	---	---	---	---	---	70	NE	34,600	50,000
1,1-Dichloroethene	---	---	---	---	---	---	52	---	---	---	7	96	1	6
cis-1,2-Dichloroethene	---	---	---	---	8	---	46,000	---	3	6	70	NE	NE	NE
trans-1,2-Dichloroethene	---	---	---	---	---	---	52	---	---	---	100	NE	NE	NE
Isopropylbenzene	NA	---	NA	---	NA	---	NA	NA	NA	---	30	NE	NE	NE
Naphthalene	NA	---	NA	---	NA	---	NA	NA	NA	---	280	NE	NE	NE
n-Propylbenzene	NA	---	NA	---	NA	---	NA	NA	NA	---	61	NE	NE	NE
Tetrachloroethene	---	---	---	---	5	---	6,800	---	---	---	5	88	1,500	3,820
1,1,1,-Trichloroethane	---	---	---	---	---	---	360	---	---	---	200	62,000	20,400	50,000
Trichloroethene	---	---	---	---	---	---	4,900	---	---	---	5	2,340	219	540
1,2,4-Trimethylbenzene	NA	---	NA	---	NA	---	NA	NA	NA	---	350	NE	NE	NE
1,3,5-Trimethylbenzene	NA	---	NA	---	NA	---	NA	NA	NA	---	350	NE	NE	NE
Vinyl Chloride	---	---	---	---	---	---	---	---	1	2	2	15,750	2	2
Xylenes	---	---	---	---	---	---	480	---	---	---	530	NE	21,300	50,000
<b>TPH (mg/l)</b>														
	---	---	NA	---	---	---	46	NA	---	---	0.5	NE	NE	NE
<b>METALS (mg/l)</b>														
			NA		NA	NA	NA	NA	NA	NA			NE	NE
Arsenic	---	---	---	---	---	---	---	---	---	---	0.05	0.004		
Barium	0.02	0.03	---	0.09	---	---	---	---	---	---	1.0	NE		
Cadmium	---	---	---	---	---	---	---	---	---	---	0.005	0.006		
Chromium	---	---	---	---	---	---	---	---	---	---	0.05	1.2/0.11 0		
Cobalt	---	---	---	---	---	---	---	---	---	---	NE	NE		
Copper	---	---	---	---	---	---	---	---	---	---	1.3	0.048		
Lead	---	---	---	---	---	---	---	---	---	---	0.015	0.013		
Nickel	---	---	---	0.01	---	---	---	---	---	---	0.1	0.88		
Vanadium	---	---	---	---	---	---	---	---	---	---	0.05	NE		
Zinc	---	---	---	---	---	---	---	---	---	---	5.0	0.123		

For Notes and Abbreviations see Page 5.



TABLE I

SUMMARY OF RESULTS OF LABORATORY GROUNDWATER ANALYSES (1,2,3)  
 ISELI COMPANY REMEDIAL INVESTIGATION  
 TERRYVILLE, CONNECTICUT

SAMPLE DESIGNATION SAMPLING DATE	OW7	OW7	OW7(I)	OW7(I)	B102S-OW	B102D-OW	B103-OW	B103-OW	GWPC	SWPC	Volatilization Criteria	
	19-Aug-96	4-June-99	19-Aug-96	4-June-99	20-Aug-96	20-Aug-96	20-Aug-96	3-June-99			Residential	Ind./Comm.
<b>YOCs (ug/l)</b>												
Benzene	---	---	---	---	---	---	---	---	1	710	215	530
n-Butylbenzene	NA	---	NA	---	NA	NA	NA	---	61	NE	NE	NE
sec-Butylbenzene	NA	---	NA	---	NA	NA	NA	---	61	NE	NE	NE
1,1-Dichloroethane	---	---	---	---	---	14	---	---	70	NE	34,600	50,000
1,1-Dichloroethene	---	---	---	---	---	5	---	---	7	96	1	6
cis-1,2-Dichloroethene	---	7	680	1,000	220	1,400	81,000	160,000	70	NE	NE	NE
trans-1,2-Dichloroethene	---	---	---	---	---	2	---	---	100	NE	NE	NE
Isopropylbenzene	NA	---	NA	---	NA	NA	NA	---	30	NE	NE	NE
Naphthalene	NA	---	NA	---	NA	NA	NA	---	280	NE	NE	NE
n-Propylbenzene	NA	---	NA	---	NA	NA	NA	---	61	NE	NE	NE
Tetrachloroethene	5	9	210	180	1,300	970	---	---	5	88	1,500	3,820
1,1,1,-Trichloroethane	---	---	---	---	24	11	380	---	200	62,000	20,400	50,000
Trichloroethene	---	---	---	38	710	310	580	---	5	2,340	219	540
1,2,4-Trimethylbenzene	NA	---	NA	---	NA	NA	NA	---	350	NE	NE	NE
1,3,5-Trimethylbenzene	NA	---	NA	---	NA	NA	NA	---	350	NE	NE	NE
Vinyl Chloride	---	---	---	---	---	8	260	---	2	15,750	2	2
Xylenes	---	---	---	---	---	---	460	---	530	NE	21,300	50,000
<b>TPH (mg/l)</b>												
	---	---	---	---	4.6	---	54	14	0.5	NE	NE	NE
<b>METALS (mg/l)</b>												
Arsenic	NA	NA	NA	NA	NA	NA	0.008	---	0.05	0.004	NE	NE
Barium									1.0	NE		
Cadmium									0.005	0.006		
Chromium									0.05	1.2/0.11 ( )		
Cobalt									NE	NE		
Copper									1.3	0.048		
Lead									0.015	0.013		
Nickel							0.16	0.04	0.1	0.88		
Vanadium									0.05	NE		
Zinc									5.0	0.123		

For Notes and Abbreviations see Page 5.



TABLE I

SUMMARY OF RESULTS OF LABORATORY GROUNDWATER ANALYSES (1,2,3)  
 ISELI COMPANY REMEDIAL INVESTIGATION  
 TERRYVILLE, CONNECTICUT

SAMPLE DESIGNATION	B104-OW	B105-OW	AE081996	B105-OW	AE060399	B301-OW(S)	B301-OW(S)	B301-OW(I)	B301-OW(I)	GWPC	SWPC	Volatilization Criteria	
SAMPLING DATE	19-Aug-96	19-Aug-96	19-Aug-96	3-June-99	3-June-99	19-Aug-96	3-June-99	19-Aug-96	3-June-99			Residential	Ind./Comm.
<b>YOCs (ug/l)</b>													
Benzene	---	---	---	3	4	---	---	---	---	1	710	215	530
n-Butylbenzene	NA	NA	NA	7	7	NA	---	NA	---	61	NE	NE	NE
sec-Butylbenzene	NA	NA	NA	8	9	NA	---	NA	---	61	NE	NE	NE
1,1-Dichloroethane	8	---	---	---	---	8	5	---	---	70	NE	34,600	50,000
1,1-Dichloroethene	2	---	---	8	8	2	---	---	---	7	96	1	6
cis-1,2-Dichloroethene	650	2,700	2,400	2,500	2,600	280	260	6,100	5,100	70	NE	NE	NE
trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	100	NE	NE	NE
Isopropylbenzene	NA	NA	NA	18	19	NA	---	NA	---	30	NE	NE	NE
Naphthalene	NA	NA	NA	70	98	NA	---	NA	---	280	NE	NE	NE
n-Propylbenzene	NA	NA	NA	6	7	NA	---	NA	---	61	NE	NE	NE
Tetrachloroethene	590	4,000	3,500	5,100	5,200	410	460	1,300	920	5	88	1,500	3,820
1,1,1,-Trichloroethane	7	190	160	90	99	8	5	---	---	200	62,000	20,400	50,000
Trichloroethene	200	4,800	5,100	3,100	3,200	160	110	700	290	5	2,340	219	540
1,2,4-Trimethylbenzene	NA	NA	NA	29	34	NA	---	NA	---	350	NE	NE	NE
1,3,5-Trimethylbenzene	NA	NA	NA	13	14	NA	---	NA	---	350	NE	NE	NE
Vinyl Chloride	6	---	---	---	---	3	3	---	---	2	15,750	2	2
Xylenes	---	170	160	129	161	---	---	---	---	530	NE	21,300	50,000
<b>TPH (mg/l)</b>	NA	---	1.3	---	---	---	---	0.6	---	0.5	NE	NE	NE
<b>METALS (mg/l)</b>	NA	---	---	---	---	NA	NA	NA	NA	---	---	NE	NE
Arsenic	---	---	---	---	---	---	---	---	---	0.05	0.004	---	---
Barium	---	0.17	0.18	0.14	0.14	---	---	---	---	1.0	NE	---	---
Cadmium	---	0.002	0.002	0.001	0.001	---	---	---	---	0.005	0.006	---	---
Chromium	---	---	---	---	---	---	---	---	---	0.05	1.2/0.11 ()	---	---
Cobalt	---	0.009	0.009	---	---	---	---	---	---	NE	NE	---	---
Copper	---	---	---	---	---	---	---	---	---	1.3	0.048	---	---
Lead	---	---	---	---	---	---	---	---	---	0.015	0.013	---	---
Nickel	---	0.01	0.01	0.01	---	---	---	---	---	0.1	0.88	---	---
Vanadium	---	---	---	---	---	---	---	---	---	0.05	NE	---	---
Zinc	---	---	---	---	---	---	---	---	---	5.0	0.123	---	---

For Notes and Abbreviations see Page 5.



TABLE I

SUMMARY OF RESULTS OF LABORATORY GROUNDWATER ANALYSES (1,2,3)  
ISELI COMPANY REMEDIAL INVESTIGATION  
TERRYVILLE, CONNECTICUT

SAMPLE DESIGNATION	B402-OW(S)	B402-OW(S)	B402-OW(I)	B402-OW(I)	B403-OW	B403-OW	B408-OW(S)	B408-OW(S)	B408-OW(I)	B408-OW(I)	GWPC	SWPC	Volatilization Criteria	
SAMPLING DATE	19-Aug-96	3-June-99	19-Aug-96	3-June-99	20-Aug-96	3-June-99	19-Aug-96	4-June-99	19-Aug-96	4-June-99			Residential	Ind./Comm.
<b>YOCs (ug/l)</b>														
Benzene	---	---	---	---	---	---	---	---	---	---	1	710	215	530
n-Butylbenzene	NA	---	NA	---	NA	---	NA	---	NA	---	61	NE	NE	NE
sec-Butylbenzene	NA	---	NA	---	NA	---	NA	---	NA	---	61	NE	NE	NE
1,1-Dichloroethane	---	11	---	---	---	---	---	---	---	---	70	NE	34,600	50,000
1,1-Dichloroethene	---	---	---	---	---	---	---	---	---	---	70	NE	1	6
cis-1,2-Dichloroethene	38	85	1,900	1,600	---	---	3	---	---	---	7	96	NE	NE
trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	---	70	NE	NE	NE
Isopropylbenzene	NA	---	NA	---	NA	---	NA	---	NA	---	100	NE	NE	NE
Naphthalene	NA	---	NA	---	NA	---	NA	---	NA	---	30	NE	NE	NE
n-Propylbenzene	NA	---	NA	---	NA	---	NA	---	NA	---	280	NE	NE	NE
Tetrachloroethene	20	33	150	---	1	---	6	---	NA	---	61	NE	NE	NE
1,1,1,-Trichloroethane	8	17	---	---	---	---	---	---	100	200	5	88	1,500	3,820
Trichloroethene	26	33	---	---	---	---	1	---	---	---	200	62,000	20,400	50,000
1,2,4-Trimethylbenzene	NA	---	NA	---	NA	---	NA	---	---	2	5	2,340	219	540
1,3,5-Trimethylbenzene	NA	---	NA	---	NA	---	NA	---	NA	---	350	NE	NE	NE
Vinyl Chloride	---	---	---	---	---	---	---	---	---	---	350	NE	NE	NE
Xylenes	---	---	---	---	---	---	---	---	---	---	2	15,750	2	2
											530	NE	21,300	50,000
<b>TPH (mg/l)</b>														
	---	---	---	---	---	---	0.5	---	---	---	0.5	NE	NE	NE
<b>METALS (mg/l)</b>														
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NE	NE
Barium											0.05	0.004		
Cadmium											1.0	NE		
Chromium											0.005	0.006		
Cobalt											0.05	1.2/0.11 ()		
Copper											NE	NE		
Lead											1.3	0.048		
Nickel											0.015	0.013		
Vanadium											0.1	0.88		
Zinc											0.05	NE		
											5.0	0.123		

For Notes and Abbreviations see Page 5.



TABLE I

SUMMARY OF RESULTS OF LABORATORY GROUNDWATER ANALYSES (1,2,3)  
ISELI COMPANY REMEDIAL INVESTIGATION  
TERRYVILLE, CONNECTICUT

NOTES AND ABBREVIATIONS:

1. Only those analytes detected by the analyses are reported here. Laboratory data are included as an attachment to this document. --- indicates analyte(s) not detected above method detection limit. NA indicates analyte(s) not analyzed for.  
VOCs means volatile organic compounds. TPH means total petroleum hydrocarbons.  
Numbers in **bold** indicate an exceedance of either the GWPC or the Industrial/Commercial Volatilization Criteria for water table wells, or exceedances of GWPC for intermediate-depth and deep wells.  
Data from relevant wells were also compared to Surface-Water Protection Criteria, as discussed in the accompanying document.
2. AE081996 is a duplicate sample collected from B105-OW.  
AE060399 is a duplicate sample collected from B105-OW.
3. S indicates shallow portion of overburden aquifer intercepted by well screened across the water table.  
D indicates deep portion of overburden aquifer monitored by well screened atop bedrock.
4. GWPC means Ground-Water Protection Criteria. SWPC means Surface-Water Protection Criteria.  
GWPC, SWPC and Volatilization Criteria from CTDEP "Remediation Standard Regulations", dated January 1996 and from DEP's "Approved Criteria for Additional Polluting Substances" dated April 30, 1999.

ISELI COMPANY																		
WATER SAMPLE RESULTS																		
05/23/91 THROUGH PRESENT																		
BLANKS INDICATE NO DETECTION																		
PWB1 - PREFILTER																		
UNITS = ug/l																		
Analysis and/or Sampling Date	05/23/91	10/23/91	03/16/92	10/16/92	03/18/93	10/26/93	03/23/94	10/26/94	03/29/95	12/26/95	12/12/96	04/16/97	04/28/98	08/25/98	09/10/98	12/08/98	03/06/99	
Laboratory	MATRIX	EAS	EAS	MATRIX	EAS	EAS												
Analysis	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	
<b>VOC'S</b>																		
TETRACHLOROETHYLENE	5.9	5.9	37	6.9	2.8	21	2.5	3	3	3.7	2.2	2.1	2.5	6.4	7.6	5.1	2.1	
1,1,1-TRICHLOROETHANE			1.5															
TRICHLOROETHYLENE	1.5	1.3	16	1.3	0.9	3.7	0.5	0.9	0.9	0.9	0.5		0.6			2	0.67	
CIS-1,2-DICHLOROETHENE	1.4	2.4	100	1.5	1.3	24	0.6	2	2	2.5	0.7	1.5	6.9	36	200	66	4.3	
1,1-DICHLOROETHANE			0.6			4.6												
DIBROMOCHLOROMETHANE																		
CHLOROFORM																		
BENZENE																		
TOLUENE																		
ETHYLBENZENE																		
STYRENE																		
CHLOROBENZENE																		
SEC-BUTYL BENZENE																		
N-PROPYLBENZENE																		
1,2-DICHLOROPROPANE													0.07*					
DICHLOROMETHANE									0.7									
CHLOROMETHANE												0.07*				0.69		
METHYLENE CHLORIDE													0.6			10		
TRANS-1,2-DICHLOROETHENE						4.60												
*LAB CONTAMINATION																		

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 4 pages  
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ISEL COMPANY																	
WATER SAMPLE RESULTS																	
05/23/91 THROUGH PRESENT																	
BLANKS INDICATE NO DETECTION																	
PRODUCTION WELL #2 - PREFILTER																	
UNITS = ug/l																	
Analysis and/or Sampling Date	06/23/91	10/23/91	03/16/92	10/16/92	03/18/93	10/26/93	03/23/94	10/25/94	03/29/95	12/28/95	12/12/96	04/16/97	04/27/98	08/25/98	09/11/98	12/08/98	03/05/99
Laboratory	MATRIX	EAS	MATRIX	EAS	EAS												
Analysis	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
<b>VOC'S</b>																	
TRANS-1,2-DICHLOROETHYLENE																	
TETRACHLOROETHYLENE	4.4	2.4	56	2.4	1	23	16	14	49	13	1.8	6.2	1.8	12	10	5.9	3.8
1,1,1-TRICHLOROETHANE			3.3														
TRICHLOROETHYLENE	0.8	0.5	37			3.6	4	3	9	2.4		1.1				1.8	1.1
CIS-1,2-DICHLOROETHANE	0.9		220			44	31	7	110	16	1.6	15	10	430	300	80	26
1,1-DICHLOROETHANE			1.3														
DIBROMOCHLOROMETHANE																	
CHLOROFORM																	
BENZENE																	
TOLUENE																	
ETHYLBENZENE																	
STYRENE																	
CHLOROBENZENE																	
SEC-BUTYL BENZENE																	
N-PROPYLBENZENE																	
1,2-DICHLOROPROPANE																	
DICHLOROMETHANE												0.6*					
*LAB CONTAMINATION																	

ISEL COMPANY														
DRINKING WATER WELLS														
05/23/91														
BLANKS INDICATE NO DETECTION														
LIMITS = µg/l														
DVI PREFILTER ALL RESULTS ARE MEASURED IN PCB'S														
Analysis and/or Sampling Dates	05/23/91	10/23/91	03/16/92	10/16/92	03/16/93	10/26/93	03/23/94	10/25/94	03/29/95	12/28/95	12/12/96	04/16/97	04/26/98	09/10/98
Laboratory	MATRIX													
Analysis	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
VOC'S														
TETRACHLOROETHYLENE		0.8					0.7	0.8	0.6	0.6				7.8
1,1,1-TRICHLOROETHANE				0.7		0.7								
TRICHLOROETHYLENE														
CHLOROFORM														
DICHLOROMETHANE				0.8	0.5							0.6*		
TOLUENE														
1,2 DICHLOROETHANE				1.2	0.8	1.6								
CIS 1,2 DICHLOROETHENE		0.7						0.6		1.1		0.6		200
*LAB CONTAMINATION														
NOTE: SEPTEMBER 1998 DATA BELIEVED TO BE NOT REPRESENTATIVE OF THIS WELL; SAMPLING ERROR DETECTED DUE TO CHANGE IN SAMPLING PERSONNEL/LABORATORY														



Table 1  
Areas Of Concern Status Summary

Area of Concern (AOC) #	AOC Description	Start-Up Date/Closure Date	Release Status	References
#1 - NPDES Outfall	Discharge point for non-contact cooling water under NPDES permit.	April 1982-Present	High Potential of Release	Insall 1992a
#2 - Underground Vault	Underground vault located at southeast corner of property covered with concrete slabs-unknown use.	Unknown-Present	Low Potential of Release	Insall 1992a
#3 - Abandoned In Place Tank	This tank is an out of service fiberglass tank located at the southeast side of the plant. This tank has never been used.	1982-Present	Low Potential of Release	Insall 1992a
#4 - Vacant lot South of Manufacturing Building	Cut and graded hill covered with rip-rap with debris, old machinery and product tanks.	1971-Present	Low Potential of Release	Insall 1992a
#5 - Waste Materials Tank Graves	Waste oil, waste acid and waste mineral spirit tanks-release documented during 1988 removal of tanks.	est. 1968-September 1988	Release to Soil/Ground-water	Haley & Aldrich 1992
#6 - Former Pit in Degreaser Area	Cement filled pit in degreaser area which formerly had PVC pipes leading to septic field-unknown use	Unknown-1988	High Potential of Release	Insall 1992a
#7 - Abandoned Drum Sites	Three general areas of abandoned drums filled with sand-like material at bottom of parking lot slope	1971-Present	High Potential of Release	Insall 1992a
#8 - Stormwater Outfalls	Three stormwater outfalls with runoff from manufacturing building roof and parking lot.	1971-Present	Low Potential of Release	Insall 1992a
#9 - Septic Tanks and Piping	Septic system with system injector, tanks and piping for floor and sink drains in building.	1946-Present	Release to Soil/Ground-water	Insall 1992a



ALTA Environmental Corporation

TABLE I

SUMMARY OF RESULTS OF LABORATORY SOIL ANALYSES (1,2,3,4)  
 ISELI COMPANY INVESTIGATION OF FORMER VACANT LOT  
 TERRYVILLE, CONNECTICUT

SAMPLE DESIGNATION	HA1 S1		HA2 S1		HA3 S1		HA4 S1		HA5 S1		Pollutant	Direct Exposure	
SAMPLE DEPTH (FT.)	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		Mobility	Criteria (6)	
SAMPLING DATE	19-Aug-99		Criteria (6)	Ind./Comm.	Residential								
VOCs (total in ug/kg)	---		---		---		---		---		NE	NE	NE
TPH (mg/kg)	76		44		42		45		65		500	2,500	500
<u>METALS (total in mg/kg, or</u>													
<u>leachable in mg/l)</u>	total	leachable											
Barium	27	0.14	27	0.14	35	0.13	27	0.15	37	0.16	1.0	140,000	4,700
Beryllium	0.4	<0.002	0.5	<0.002	0.5	<0.002	0.5	<0.002	0.5	<0.002	0.004	2	2
Cadmium	<1	<0.001	<1	<0.001	<1	<0.001	<1	<0.001	<1	<0.001	0.005	1,000	34
Chromium	9	<0.02	11	<0.02	10	<0.02	11	<0.02	11	<0.02	0.05	51,000/100 (7)	3,900/100 (7)
Copper	20	<0.04	22	<0.04	15	<0.04	15	<0.04	24	<0.04	1.3	76,000	2,500
Lead	50	0.015	40	0.012	20	0.007	20	0.006	80	0.019	0.015	1,000	500
Nickel	7	<0.01	7	<0.01	8	<0.01	7	0.01	7	<0.01	0.1	7,500	1,400
Zinc	77	0.11	57	0.11	55	0.08	52	0.12	116	0.18	5.0	610,000	20,000

For Notes and Abbreviations see Page 3.



ALTA Environmental Corporation

TABLE I

SUMMARY OF RESULTS OF LABORATORY SOIL ANALYSES (1,2,3,4)  
 ISELI COMPANY INVESTIGATION OF FORMER VACANT LOT  
 TERRYVILLE, CONNECTICUT

SAMPLE DESIGNATION	HA6 S1		HA7 S1		AE081999 (5)		HA8 S1		HA9 S1		HA10 S1		Pollutant	Direct Exposure	
SAMPLE DEPTH (FT.)	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		Mobility	Criteria (6)	
SAMPLING DATE	19-Aug-99		19-Aug-99		19-Aug-99		19-Aug-99		19-Aug-99		19-Aug-99		Criteria (6)	Ind./Comm.	Residential
<b>YOCs (total in ug/kg)</b>	---		---		---		---		---		---		NE	NE	NE
<b>TPH (mg/kg)</b>	39		49		49		75		64		65		500	2,500	500
<b>METALS (total in mg/kg, or</b>															
<b>leachable in mg/l)</b>	total	leachable	total	leachable	total	leachable	total	leachable	total	leachable	total	leachable			
Barium	44	0.17	53	0.22	64	0.18	33	0.13	29	0.15	31	0.14	1.0	140,000	4,700
Beryllium	0.5	<0.002	0.5	<0.002	0.5	<0.002	0.6	<0.002	0.4	<0.002	0.5	<0.002	0.004	2	2
Cadmium	<1	<0.001	<1	<0.001	<1	<0.001	<1	<0.001	<1	<0.001	<1	<0.001	0.005	1,000	34
Chromium	11	<0.02	12	<0.02	14	<0.02	13	<0.02	9	<0.02	11	<0.02	0.05	51,000/100 (7)	3,900/100 (7)
Copper	16	<0.04	21	<0.04	25	<0.04	27	<0.04	23	<0.04	19	<0.04	1.3	76,000	2,500
Lead	20	0.012	40	0.016	50	0.012	80	0.014	60	0.016	40	0.01	0.015	1,000	500
Nickel	8	<0.01	10	<0.01	12	0.01	8	<0.01	6	<0.01	7	<0.01	0.1	7,500	1,400
Zinc	60	0.17	63	0.13	87	0.18	78	0.12	72	0.13	68	0.13	5.0	610,000	20,000

For Notes and Abbreviations see Page 3.



TABLE I

SUMMARY OF RESULTS OF LABORATORY SOIL ANALYSES (1,2,3)  
ISELI COMPANY INVESTIGATION OF FORMER VACANT LOT  
TERRYVILLE, CONNECTICUT

NOTES AND ABBREVIATIONS:

1. Only those analytes detected by the analyses are reported here. See laboratory reports for complete results of analyses.
2. --- indicates that the analyte was not detected above method detection limit. NA indicates that the sample was not analyzed for the analyte. NE indicates none established or relevant. Numbers in **bold** indicate an exceedance of either the pollutant mobility or industrial/commercial direct exposure criteria.
3. VOCs means volatile organic compounds. TPHs means total petroleum hydrocarbons.
4. VOCs analyzed by EPA Method 8260. TPH analyzed by EPA Method 418.1. Leachable analytes determined using Synthetic Precipitation Leaching Procedure (SPLP).
5. Sample AE081999 is a duplicate sample of HA7 S1.
6. Mobility and direct exposure criteria are for GA sites, and both industrial and residential sites, respectively, taken from Connecticut Department of Environmental Protection (DEP) "Remediation Standard Regulations" (adopted January 1996).
7. Criteria are for trivalent/hexavalent forms of chromium.



ANALYTICAL DATA  
SUMMARY

Report Date: 09/02/99

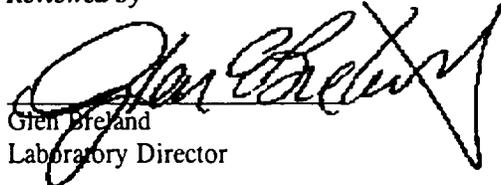
Account: ALTA Environmental, Inc.  
Address: 100 Amston Road  
Colchester, CT 06415  
860-537-2582

Project Manager: K. Meloy  
Project Name: Envi. Invests. (8-19-99)  
Project No.: 1008-08

Sample Information:

<u>Laboratory ID</u>	<u>Client/Field ID</u>	<u>Laboratory ID</u>	<u>Client/Field ID</u>
92323195-001	HA1 S1	92323195-015	HA1 S1
92323195-002	HA2 S1	92323195-016	HA2 S1
92323195-003	HA3 S1	92323195-017	HA3 S1
92323195-004	HA4 S1	92323195-018	HA4 S1
92323195-005	HA5 S1	92323195-019	HA5 S1
92323195-006	HA6 S1	92323195-020	HA6 S1
92323195-007	HA7 S1	92323195-021	HA7 S1
92323195-008	HA8 S1	92323195-022	HA8 S1
92323195-009	HA9 S1	92323195-023	HA9 S1
92323195-010	HA10 S1	92323195-024	HA10 S1
92323195-011	AE081999	92323195-025	AE081999
92323195-012	SW-1	92323195-026	QC Report -Water
92323195-013	EB081999	92323195-027	QC Report -SPLP
92323195-014	TB081999	92323195-028	QC Report -Soil

Reviewed by

  
Glen Breland  
Laboratory Director

Lab Certifications

EPA ID: No. MA059  
Massachusetts: No. M-MA059  
Maine: Reciprocity  
Rhode Island: No. 87  
South Carolina: No. 88011

Florida(DEP): QA Plan No. 900437G  
Florida(HRS): No. E87290  
Connecticut: No. PH0515  
New York: ELAP No. 11116  
New Hampshire: No. 2041



Matrix Analytical, Inc.  
 106 South Street  
 Hopkinton, MA 01748-2295  
 1 (800) 362-8749

**F I N A L R E P O R T**

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A. Williams

**Sample Information**

Lab ID: 92323195-001  
 Client ID: HA1 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:25  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>SAMPLE PREPARATION</u></b>						
Metal Digestion	08/27/99			3051	rw	
<b><u>TRACE METALS</u></b>						
Barium	27	mg/kg	1	6010B	rw	08/27/99
Beryllium	0.4	mg/kg	0.4	6010B	rw	08/27/99
Cadmium	ND	mg/kg	1	6010B	rw	08/27/99
Chromium	9	mg/kg	2	6010B	rw	08/27/99
Copper	20	mg/kg	4	6010B	rw	08/27/99
Lead	50	mg/kg	10	6010B	rw	08/27/99
Nickel	7	mg/kg	1	6010B	rw	08/27/99
Zinc	77	mg/kg	5	6010B	rw	08/27/99
<b><u>VOLATILE ORGANICS</u></b>						
Acetone	ND	ug/kg	500	8260B	ak	08/26/99
Acrolein	ND	ug/kg	500	8260B	ak	08/26/99
Acrylonitrile	ND	ug/kg	500	8260B	ak	08/26/99
Benzene	ND	ug/kg	5	8260B	ak	08/26/99
Bromobenzene	ND	ug/kg	25	8260B	ak	08/26/99
Bromochloromethane	ND	ug/kg	25	8260B	ak	08/26/99
Bromodichloromethane	ND	ug/kg	25	8260B	ak	08/26/99
Bromoform	ND	ug/kg	25	8260B	ak	08/26/99
Bromomethane	ND	ug/kg	25	8260B	ak	08/26/99
2-Butanone	ND	ug/kg	500	8260B	ak	08/26/99
n-Butylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
sec-Butylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
tert-Butylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
Carbon Disulfide	ND	ug/kg	25	8260B	ak	08/26/99
Carbon Tetrachloride	ND	ug/kg	25	8260B	ak	08/26/99



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**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-001  
 Client ID: HA1 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:25  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b>VOLATILE ORGANICS</b>						
Chlorobenzene	ND	ug/kg	25	8260B	ak	08/26/99
Chloroethane	ND	ug/kg	25	8260B	ak	08/26/99
2-Chloroethylvinyl Ether	ND	ug/kg	25	8260B	ak	08/26/99
Chloroform	ND	ug/kg	25	8260B	ak	08/26/99
Chloromethane	ND	ug/kg	25	8260B	ak	08/26/99
2-Chlorotoluene	ND	ug/kg	25	8260B	ak	08/26/99
4-Chlorotoluene	ND	ug/kg	25	8260B	ak	08/26/99
1,2-Dibromo-3-Chloropropane	ND	ug/kg	25	8260B	ak	08/26/99
Dibromochloromethane	ND	ug/kg	25	8260B	ak	08/26/99
1,2-Dibromoethane (EDB)	ND	ug/kg	25	8260B	ak	08/26/99
Dibromomethane	ND	ug/kg	25	8260B	ak	08/26/99
1,2-Dichlorobenzene	ND	ug/kg	25	8260B	ak	08/26/99
1,3-Dichlorobenzene	ND	ug/kg	25	8260B	ak	08/26/99
1,4-Dichlorobenzene	ND	ug/kg	25	8260B	ak	08/26/99
Dichlorodifluoromethane	ND	ug/kg	25	8260B	ak	08/26/99
1,1-Dichloroethane	ND	ug/kg	25	8260B	ak	08/26/99
1,2-Dichloroethane	ND	ug/kg	5	8260B	ak	08/26/99
1,1-Dichloroethene	ND	ug/kg	25	8260B	ak	08/26/99
cis-1,2-Dichloroethene	ND	ug/kg	25	8260B	ak	08/26/99
trans-1,2-Dichloroethene	ND	ug/kg	25	8260B	ak	08/26/99
1,2-Dichloropropane	ND	ug/kg	25	8260B	ak	08/26/99
1,3-Dichloropropane	ND	ug/kg	25	8260B	ak	08/26/99
2,2-Dichloropropane	ND	ug/kg	25	8260B	ak	08/26/99
1,1-Dichloropropene	ND	ug/kg	25	8260B	ak	08/26/99
cis-1,3-Dichloropropene	ND	ug/kg	25	8260B	ak	08/26/99
trans-1,3-Dichloropropene	ND	ug/kg	25	8260B	ak	08/26/99
Ethylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
Hexachlorobutadiene	ND	ug/kg	25	8260B	ak	08/26/99



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 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-001  
 Client ID: HA1 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:25  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
2-Hexanone	ND	ug/kg	25	8260B	ak	08/26/99
Iodomethane	ND	ug/kg	25	8260B	ak	08/26/99
Isopropylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
p-Isopropyltoluene	ND	ug/kg	25	8260B	ak	08/26/99
Methylene Chloride	ND	ug/kg	25	8260B	ak	08/26/99
4-Methyl-2-Pentanone	ND	ug/kg	250	8260B	ak	08/26/99
MTBE	ND	ug/kg	25	8260B	ak	08/26/99
Naphthalene	ND	ug/kg	25	8260B	ak	08/26/99
n-Propylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
Styrene	ND	ug/kg	25	8260B	ak	08/26/99
1,1,1,2-Tetrachloroethane	ND	ug/kg	25	8260B	ak	08/26/99
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8260B	ak	08/26/99
Tetrachloroethene	ND	ug/kg	25	8260B	ak	08/26/99
Toluene	ND	ug/kg	25	8260B	ak	08/26/99
1,2,3-Trichloropropane	ND	ug/kg	25	8260B	ak	08/26/99
1,2,3-Trichlorobenzene	ND	ug/kg	25	8260B	ak	08/26/99
1,2,4-Trichlorobenzene	ND	ug/kg	25	8260B	ak	08/26/99
1,1,1-Trichloroethane	ND	ug/kg	25	8260B	ak	08/26/99
1,1,2-Trichloroethane	ND	ug/kg	25	8260B	ak	08/26/99
Trichloroethene	ND	ug/kg	25	8260B	ak	08/26/99
Trichlorofluoromethane	ND	ug/kg	25	8260B	ak	08/26/99
1,2,4-Trimethylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
1,3,5-Trimethylbenzene	ND	ug/kg	25	8260B	ak	08/26/99
Vinyl Acetate	ND	ug/kg	25	8260B	ak	08/26/99
Vinyl Chloride	ND	ug/kg	10	8260B	ak	08/26/99
o-Xylene	ND	ug/kg	25	8260B	ak	08/26/99
p-m-Xylene	ND	ug/kg	25	8260B	ak	08/26/99

The detection limit reported is based



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**F I N A L R E P O R T**

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-001  
 Client ID: HA1 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:25  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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(Comments cont.)  
 on a X5 dilution of the sample.

**SURROGATE STUDIES - VOLATILES**

Bromofluorobenzene	87	Percent			ak	08/26/99
Dibromofluoromethane	89	Percent			ak	08/26/99
Toluene-D8	97	Percent			ak	08/26/99

**MISCELLANEOUS TESTING**

Percent Moisture	6.8	Percent			ei	08/23/99
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**PETROLEUM HYDROCARBON ANALYSIS**

TPH-IR Extraction Date:	08/25/99				aa	
Total Petroleum Hydrocarbons (IR)	76	mg/kg	5	9071/418.1	aa	08/27/99



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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Envi. Invests. (8-19-99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92323195-002	Date Sampled:	08/19/99 10:35
Client ID:	HA2 S1	Date Received:	08/20/99 : 0
Matrix:	Soil	Date Reported:	09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>SAMPLE PREPARATION</u>						
Metal Digestion	08/27/99			3051	rw	
<u>TRACE METALS</u>						
Barium	27	mg/kg	1	6010B	rw	08/27/99
Beryllium	0.5	mg/kg	0.4	6010B	rw	08/27/99
Cadmium	ND	mg/kg	1	6010B	rw	08/27/99
Chromium	11	mg/kg	2	6010B	rw	08/27/99
Copper	22	mg/kg	4	6010B	rw	08/27/99
Lead	40	mg/kg	10	6010B	rw	08/27/99
Nickel	7	mg/kg	1	6010B	rw	08/27/99
Zinc	57	mg/kg	5	6010B	rw	08/27/99
<u>VOLATILE ORGANICS</u>						
Acetone	ND	ug/kg	500	8260B	jw	08/26/99
Acrolein	ND	ug/kg	500	8260B	jw	08/26/99
Acrylonitrile	ND	ug/kg	500	8260B	jw	08/26/99
Benzene	ND	ug/kg	5	8260B	jw	08/26/99
Bromobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Bromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromodichloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromoform	ND	ug/kg	25	8260B	jw	08/26/99
Bromomethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Butanone	ND	ug/kg	500	8260B	jw	08/26/99
n-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
sec-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
tert-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Disulfide	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Tetrachloride	ND	ug/kg	25	8260B	jw	08/26/99



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**F I N A L   R E P O R T**

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-002  
 Client ID: HA2 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:35  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Chlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Chloroethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chloroethylvinyl Ether	ND	ug/kg	25	8260B	jw	08/26/99
Chloroform	ND	ug/kg	25	8260B	jw	08/26/99
Chloromethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
4-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromo-3-Chloropropane	ND	ug/kg	25	8260B	jw	08/26/99
Dibromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromoethane (EDB)	ND	ug/kg	25	8260B	jw	08/26/99
Dibromomethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,4-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Dichlorodifluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloroethane	ND	ug/kg	5	8260B	jw	08/26/99
1,1-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
2,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
Ethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Hexachlorobutadiene	ND	ug/kg	25	8260B	jw	08/26/99



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Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

Sample Information

Lab ID: 92323195-002  
 Client ID: HA2 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:35  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
2-Hexanone	ND	ug/kg	25	8260B	jw	08/26/99
Iodomethane	ND	ug/kg	25	8260B	jw	08/26/99
Isopropylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
p-Isopropyltoluene	ND	ug/kg	25	8260B	jw	08/26/99
Methylene Chloride	ND	ug/kg	25	8260B	jw	08/26/99
4-Methyl-2-Pentanone	ND	ug/kg	250	8260B	jw	08/26/99
MTBE	ND	ug/kg	25	8260B	jw	08/26/99
Naphthalene	ND	ug/kg	25	8260B	jw	08/26/99
n-Propylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Styrene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Tetrachloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Toluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,2-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Trichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Trichlorofluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3,5-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Acetate	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Chloride	ND	ug/kg	10	8260B	jw	08/26/99
o-Xylene	ND	ug/kg	25	8260B	jw	08/26/99
p-m-Xylene	ND	ug/kg	25	8260B	jw	08/26/99

The detection limit reported is based



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Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K. Meloy  
 Sampler Name: A. Williams

**Sample Information**

Lab ID: 92323195-002  
 Client ID: HA2 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:35  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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(Comments cont.)  
 on a X5 dilution of the sample.  
 Detection limit due to  
 matrix interference.

SURROGATE STUDIES - VOLATILES

Bromofluorobenzene	78	Percent			jw	08/26/99
Dibromofluoromethane	88	Percent			jw	08/26/99
Toluene-D8	93	Percent			jw	08/26/99

MISCELLANEOUS TESTING

Percent Moisture	5.1	Percent			el	08/23/99
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PETROLEUM HYDROCARBON ANALYSIS

TPH-IR Extraction Date:	08/25/99				aa	
Total Petroleum Hydrocarbons (IR)	44	mg/kg	5	9071/418.1	aa	08/27/99



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Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-003  
 Client ID: HA3 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:47  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>SAMPLE PREPARATION</u></b>						
Metal Digestion	08/27/99			3051	rw	
<b><u>TRACE METALS</u></b>						
Barium	35	mg/kg	1	6010B	rw	08/27/99
Beryllium	0.5	mg/kg	0.4	6010B	rw	08/27/99
Cadmium	ND	mg/kg	1	6010B	rw	08/27/99
Chromium	10	mg/kg	2	6010B	rw	08/27/99
Copper	15	mg/kg	4	6010B	rw	08/27/99
Lead	20	mg/kg	10	6010B	rw	08/27/99
Nickel	8	mg/kg	1	6010B	rw	08/27/99
Zinc	55	mg/kg	5	6010B	rw	08/27/99
<b><u>VOLATILE ORGANICS</u></b>						
Acetone	ND	ug/kg	500	8260B	jw	08/26/99
Acrolein	ND	ug/kg	500	8260B	jw	08/26/99
Acrylonitrile	ND	ug/kg	500	8260B	jw	08/26/99
Benzene	ND	ug/kg	5	8260B	jw	08/26/99
Bromobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Bromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromodichloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromoform	ND	ug/kg	25	8260B	jw	08/26/99
Bromomethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Butanone	ND	ug/kg	500	8260B	jw	08/26/99
n-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
sec-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
tert-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Disulfide	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Tetrachloride	ND	ug/kg	25	8260B	jw	08/26/99



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F I N A L R E P O R T

Client Information

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

Sample Information

Lab ID: 92323195-003  
 Client ID: HA3 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:47  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Chlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Chloroethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chloroethylvinyl Ether	ND	ug/kg	25	8260B	jw	08/26/99
Chloroform	ND	ug/kg	25	8260B	jw	08/26/99
Chloromethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
4-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromo-3-Chloropropane	ND	ug/kg	25	8260B	jw	08/26/99
Dibromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromoethane (EDB)	ND	ug/kg	25	8260B	jw	08/26/99
Dibromomethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,4-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Dichlorodifluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloroethane	ND	ug/kg	5	8260B	jw	08/26/99
1,1-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
2,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
Ethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Hexachlorobutadiene	ND	ug/kg	25	8260B	jw	08/26/99



Matrix Analytical, Inc.  
 106 South Street  
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**F I N A L R E P O R T**

**Client Information**

Account:	ALTA Environmental, Inc.	Project Name:	Envi. Invests. (8-19-99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K.Meloy
		Sampler Name:	A.Williams

**Sample Information**

Lab ID:	92323195-003	Date Sampled:	08/19/99 10:47
Client ID:	HA3 S1	Date Received:	08/20/99 : 0
Matrix:	Soil	Date Reported:	09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
2-Hexanone	ND	ug/kg	25	8260B	jw	08/26/99
Iodomethane	ND	ug/kg	25	8260B	jw	08/26/99
Isopropylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
p-Isopropyltoluene	ND	ug/kg	25	8260B	jw	08/26/99
Methylene Chloride	ND	ug/kg	25	8260B	jw	08/26/99
4-Methyl-2-Pentanone	ND	ug/kg	250	8260B	jw	08/26/99
MTBE	ND	ug/kg	25	8260B	jw	08/26/99
Naphthalene	ND	ug/kg	25	8260B	jw	08/26/99
n-Propylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Styrene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Tetrachloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Toluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,2-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Trichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Trichlorofluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3,5-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Acetate	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Chloride	ND	ug/kg	10	8260B	jw	08/26/99
o-Xylene	ND	ug/kg	25	8260B	jw	08/26/99
p-m-Xylene	ND	ug/kg	25	8260B	jw	08/26/99

The detection limit reported is based



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F I N A L R E P O R T

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-003  
 Client ID: HA3 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:47  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
(Comments cont.) on a X5 dilution of the sample. Detection limit due to matrix interference.						
<b><u>SURROGATE STUDIES - VOLATILES</u></b>						
Bromofluorobenzene	79	Percent			jw	08/26/99
Dibromofluoromethane	87	Percent			jw	08/26/99
Toluene-D8	92	Percent			jw	08/26/99
<b><u>MISCELLANEOUS TESTING</u></b>						
Percent Moisture	5.7	Percent			el	08/25/99
<b><u>PETROLEUM HYDROCARBON ANALYSIS</u></b>						
TPH-IR Extraction Date:	08/25/99				aa	
Total Petroleum Hydrocarbons (IR)	42	mg/kg	5	9071/418.1	aa	08/27/99



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**F I N A L   R E P O R T**

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-004  
 Client ID: HA4 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:58  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>SAMPLE PREPARATION</u></b>						
Metal Digestion	08/27/99			3051	rw	
<b><u>TRACE METALS</u></b>						
Barium	27	mg/kg	1	6010B	rw	08/27/99
Beryllium	0.5	mg/kg	0.4	6010B	rw	08/27/99
Cadmium	ND	mg/kg	1	6010B	rw	08/27/99
Chromium	11	mg/kg	2	6010B	rw	08/27/99
Copper	15	mg/kg	4	6010B	rw	08/27/99
Lead	20	mg/kg	10	6010B	rw	08/27/99
Nickel	7	mg/kg	1	6010B	rw	08/27/99
Zinc	52	mg/kg	5	6010B	rw	08/27/99
<b><u>VOLATILE ORGANICS</u></b>						
Acetone	ND	ug/kg	1000	8260B	jw	08/27/99
Acrolein	ND	ug/kg	1000	8260B	jw	08/27/99
Acrylonitrile	ND	ug/kg	1000	8260B	jw	08/27/99
Benzene	ND	ug/kg	10	8260B	jw	08/27/99
Bromobenzene	ND	ug/kg	50	8260B	jw	08/27/99
Bromochloromethane	ND	ug/kg	50	8260B	jw	08/27/99
Bromodichloromethane	ND	ug/kg	50	8260B	jw	08/27/99
Bromoform	ND	ug/kg	50	8260B	jw	08/27/99
Bromomethane	ND	ug/kg	50	8260B	jw	08/27/99
2-Butanone	ND	ug/kg	1000	8260B	jw	08/27/99
n-Butylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
sec-Butylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
tert-Butylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
Carbon Disulfide	ND	ug/kg	50	8260B	jw	08/27/99
Carbon Tetrachloride	ND	ug/kg	50	8260B	jw	08/27/99



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**F I N A L R E P O R T**

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-004  
 Client ID: HA4 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:58  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Chlorobenzene	ND	ug/kg	50	8260B	jw	08/27/99
Chloroethane	ND	ug/kg	50	8260B	jw	08/27/99
2-Chloroethylvinyl Ether	ND	ug/kg	50	8260B	jw	08/27/99
Chloroform	ND	ug/kg	50	8260B	jw	08/27/99
Chloromethane	ND	ug/kg	50	8260B	jw	08/27/99
2-Chlorotoluene	ND	ug/kg	50	8260B	jw	08/27/99
4-Chlorotoluene	ND	ug/kg	50	8260B	jw	08/27/99
1,2-Dibromo-3-Chloropropane	ND	ug/kg	50	8260B	jw	08/27/99
Dibromochloromethane	ND	ug/kg	50	8260B	jw	08/27/99
1,2-Dibromoethane (EDB)	ND	ug/kg	50	8260B	jw	08/27/99
Dibromomethane	ND	ug/kg	50	8260B	jw	08/27/99
1,2-Dichlorobenzene	ND	ug/kg	50	8260B	jw	08/27/99
1,3-Dichlorobenzene	ND	ug/kg	50	8260B	jw	08/27/99
1,4-Dichlorobenzene	ND	ug/kg	50	8260B	jw	08/27/99
Dichlorodifluoromethane	ND	ug/kg	50	8260B	jw	08/27/99
1,1-Dichloroethane	ND	ug/kg	50	8260B	jw	08/27/99
1,2-Dichloroethane	ND	ug/kg	10	8260B	jw	08/27/99
1,1-Dichloroethene	ND	ug/kg	50	8260B	jw	08/27/99
cis-1,2-Dichloroethene	ND	ug/kg	50	8260B	jw	08/27/99
trans-1,2-Dichloroethene	ND	ug/kg	50	8260B	jw	08/27/99
1,2-Dichloropropane	ND	ug/kg	50	8260B	jw	08/27/99
1,3-Dichloropropane	ND	ug/kg	50	8260B	jw	08/27/99
2,2-Dichloropropane	ND	ug/kg	50	8260B	jw	08/27/99
1,1-Dichloropropene	ND	ug/kg	50	8260B	jw	08/27/99
cis-1,3-Dichloropropene	ND	ug/kg	50	8260B	jw	08/27/99
trans-1,3-Dichloropropene	ND	ug/kg	50	8260B	jw	08/27/99
Ethylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
Hexachlorobutadiene	ND	ug/kg	50	8260B	jw	08/27/99



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**F I N A L   R E P O R T**

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-004  
 Client ID: HA4 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:58  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
2-Hexanone	ND	ug/kg	50	8260B	jw	08/27/99
Iodomethane	ND	ug/kg	50	8260B	jw	08/27/99
Isopropylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
p-Isopropyltoluene	ND	ug/kg	50	8260B	jw	08/27/99
Methylene Chloride	ND	ug/kg	50	8260B	jw	08/27/99
4-Methyl-2-Pentanone	ND	ug/kg	500	8260B	jw	08/27/99
MTBE	ND	ug/kg	50	8260B	jw	08/27/99
Naphthalene	ND	ug/kg	50	8260B	jw	08/27/99
n-Propylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
Styrene	ND	ug/kg	50	8260B	jw	08/27/99
1,1,1,2-Tetrachloroethane	ND	ug/kg	50	8260B	jw	08/27/99
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	50	8260B	jw	08/27/99
Tetrachloroethene	ND	ug/kg	50	8260B	jw	08/27/99
Toluene	ND	ug/kg	50	8260B	jw	08/27/99
1,2,3-Trichloropropane	ND	ug/kg	50	8260B	jw	08/27/99
1,2,3-Trichlorobenzene	ND	ug/kg	50	8260B	jw	08/27/99
1,2,4-Trichlorobenzene	ND	ug/kg	50	8260B	jw	08/27/99
1,1,1-Trichloroethane	ND	ug/kg	50	8260B	jw	08/27/99
1,1,2-Trichloroethane	ND	ug/kg	50	8260B	jw	08/27/99
Trichloroethene	ND	ug/kg	50	8260B	jw	08/27/99
Trichlorofluoromethane	ND	ug/kg	50	8260B	jw	08/27/99
1,2,4-Trimethylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
1,3,5-Trimethylbenzene	ND	ug/kg	50	8260B	jw	08/27/99
Vinyl Acetate	ND	ug/kg	50	8260B	jw	08/27/99
Vinyl Chloride	ND	ug/kg	20	8260B	jw	08/27/99
o-Xylene	ND	ug/kg	50	8260B	jw	08/27/99
p-m-Xylene	ND	ug/kg	50	8260B	jw	08/27/99

The detection limit reported is based



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F I N A L R E P O R T

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-004  
 Client ID: HA4 S1  
 Matrix: Soil

Date Sampled: 08/19/99 10:58  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
(Comments cont.)						
on a X10 dilution of the sample.						
<b><u>SURROGATE STUDIES - VOLATILES</u></b>						
Bromofluorobenzene	73	Percent			jw	08/27/99
Dibromofluoromethane	87	Percent			jw	08/27/99
Toluene-D8	90	Percent			jw	08/27/99
<b><u>MISCELLANEOUS TESTING</u></b>						
Percent Moisture	6.0	Percent			el	08/23/99
<b><u>PETROLEUM HYDROCARBON ANALYSIS</u></b>						
TPH-IR Extraction Date:	08/25/99				aa	
Total Petroleum Hydrocarbons (IR)	45	mg/kg	5	9071/418.1	aa	08/27/99



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F I N A L R E P O R T

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-005  
 Client ID: HA5 S1  
 Matrix: Soil

Date Sampled: 08/19/99 11:08  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>SAMPLE PREPARATION</u></b>						
Metal Digestion	08/27/99			3051	rw	
<b><u>TRACE METALS</u></b>						
Barium	37	mg/kg	1	6010B	rw	08/27/99
Beryllium	0.5	mg/kg	0.4	6010B	rw	08/27/99
Cadmium	ND	mg/kg	1	6010B	rw	08/27/99
Chromium	11	mg/kg	2	6010B	rw	08/27/99
Copper	24	mg/kg	4	6010B	rw	08/27/99
Lead	80	mg/kg	10	6010B	rw	08/27/99
Nickel	7	mg/kg	1	6010B	rw	08/27/99
Zinc	116	mg/kg	5	6010B	rw	08/27/99
<b><u>VOLATILE ORGANICS</u></b>						
Acetone	ND	ug/kg	500	8260B	jw	08/26/99
Acrolein	ND	ug/kg	500	8260B	jw	08/26/99
Acrylonitrile	ND	ug/kg	500	8260B	jw	08/26/99
Benzene	ND	ug/kg	5	8260B	jw	08/26/99
Bromobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Bromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromodichloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromoform	ND	ug/kg	25	8260B	jw	08/26/99
Bromomethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Butanone	ND	ug/kg	500	8260B	jw	08/26/99
n-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
sec-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
tert-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Disulfide	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Tetrachloride	ND	ug/kg	25	8260B	jw	08/26/99



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F I N A L R E P O R T

Client Information

Account: ALTA Environmental, Inc.  
Address: 100 Amston Road  
Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
Project Number: 1008-08  
Project Manager: K.Meloy  
Sampler Name: A.Williams

Sample Information

Lab ID: 92323195-005  
Client ID: HA5 S1  
Matrix: Soil

Date Sampled: 08/19/99 11:08  
Date Received: 08/20/99 : 0  
Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Chlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Chloroethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chloroethylvinyl Ether	ND	ug/kg	25	8260B	jw	08/26/99
Chloroform	ND	ug/kg	25	8260B	jw	08/26/99
Chloromethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
4-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromo-3-Chloropropane	ND	ug/kg	25	8260B	jw	08/26/99
Dibromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromoethane (EDB)	ND	ug/kg	25	8260B	jw	08/26/99
Dibromomethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,4-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Dichlorodifluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloroethane	ND	ug/kg	5	8260B	jw	08/26/99
1,1-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
2,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
Ethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Hexachlorobutadiene	ND	ug/kg	25	8260B	jw	08/26/99



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**F I N A L R E P O R T**

**Client Information**

Account: ALTA Environmental, Inc.  
 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-005  
 Client ID: HA5 S1  
 Matrix: Soil

Date Sampled: 08/19/99 11:08  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
2-Hexanone	ND	ug/kg	25	8260B	jw	08/26/99
Iodomethane	ND	ug/kg	25	8260B	jw	08/26/99
Isopropylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
p-Isopropyltoluene	ND	ug/kg	25	8260B	jw	08/26/99
Methylene Chloride	ND	ug/kg	25	8260B	jw	08/26/99
4-Methyl-2-Pentanone	ND	ug/kg	250	8260B	jw	08/26/99
MTBE	ND	ug/kg	25	8260B	jw	08/26/99
Naphthalene	ND	ug/kg	25	8260B	jw	08/26/99
n-Propylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Styrene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Tetrachloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Toluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,2-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Trichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Trichlorofluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3,5-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Acetate	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Chloride	ND	ug/kg	10	8260B	jw	08/26/99
o-Xylene	ND	ug/kg	25	8260B	jw	08/26/99
p-m-Xylene	ND	ug/kg	25	8260B	jw	08/26/99

The detection limit reported is based



Matrix Analytical, Inc.  
 106 South Street  
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 Address: 100 Amston Road  
 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-005  
 Client ID: HA5 S1  
 Matrix: Soil

Date Sampled: 08/19/99 11:08  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
(Comments cont.) on a X5 dilution of the sample. Detection limit due to matrix interference.						
<b><u>SURROGATE STUDIES - VOLATILES</u></b>						
Bromofluorobenzene	76	Percent			jw	08/26/99
Dibromofluoromethane	86	Percent			jw	08/26/99
Toluene-D8	88	Percent			jw	08/26/99
<b><u>MISCELLANEOUS TESTING</u></b>						
Percent Moisture	5.9	Percent			el	08/23/99
<b><u>PETROLEUM HYDROCARBON ANALYSIS</u></b>						
TPH-IR Extraction Date:	08/25/99				aa	
Total Petroleum Hydrocarbons (IR)	65	mg/kg	5	9071/418.1	aa	08/27/99



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 Colchester, CT 06415

Project Name: Envi. Invests. (8-19-99)  
 Project Number: 1008-08  
 Project Manager: K.Meloy  
 Sampler Name: A.Williams

**Sample Information**

Lab ID: 92323195-006  
 Client ID: HA6 S1  
 Matrix: Soil

Date Sampled: 08/19/99 11:28  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b>SAMPLE PREPARATION</b>						
Metal Digestion	08/27/99			3051	rw	
<b>TRACE METALS</b>						
Barium	44	mg/kg	1	6010B	rw	08/27/99
Beryllium	0.5	mg/kg	0.4	6010B	rw	08/27/99
Cadmium	ND	mg/kg	1	6010B	rw	08/27/99
Chromium	11	mg/kg	2	6010B	rw	08/27/99
Copper	16	mg/kg	4	6010B	rw	08/27/99
Lead	20	mg/kg	10	6010B	rw	08/27/99
Nickel	8	mg/kg	1	6010B	rw	08/27/99
Zinc	60	mg/kg	5	6010B	rw	08/27/99
<b>VOLATILE ORGANICS</b>						
Acetone	ND	ug/kg	500	8260B	jw	08/26/99
Acrolein	ND	ug/kg	500	8260B	jw	08/26/99
Acrylonitrile	ND	ug/kg	500	8260B	jw	08/26/99
Benzene	ND	ug/kg	5	8260B	jw	08/26/99
Bromobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Bromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromodichloromethane	ND	ug/kg	25	8260B	jw	08/26/99
Bromoform	ND	ug/kg	25	8260B	jw	08/26/99
Bromomethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Butanone	ND	ug/kg	500	8260B	jw	08/26/99
n-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
sec-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
tert-Butylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Disulfide	ND	ug/kg	25	8260B	jw	08/26/99
Carbon Tetrachloride	ND	ug/kg	25	8260B	jw	08/26/99



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 Project Manager: K.Meloy  
 Sampler Name: A.Williams

Sample Information

Lab ID: 92323195-006  
 Client ID: HA6 S1  
 Matrix: Soil

Date Sampled: 08/19/99 11:28  
 Date Received: 08/20/99 : 0  
 Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Chlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Chloroethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chloroethylvinyl Ether	ND	ug/kg	25	8260B	jw	08/26/99
Chloroform	ND	ug/kg	25	8260B	jw	08/26/99
Chloromethane	ND	ug/kg	25	8260B	jw	08/26/99
2-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
4-Chlorotoluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromo-3-Chloropropane	ND	ug/kg	25	8260B	jw	08/26/99
Dibromochloromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dibromoethane (EDB)	ND	ug/kg	25	8260B	jw	08/26/99
Dibromomethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,4-Dichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
Dichlorodifluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloroethane	ND	ug/kg	5	8260B	jw	08/26/99
1,1-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,2-Dichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
1,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,3-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
2,2-Dichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,1-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
cis-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
trans-1,3-Dichloropropene	ND	ug/kg	25	8260B	jw	08/26/99
Ethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Hexachlorobutadiene	ND	ug/kg	25	8260B	jw	08/26/99



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 Matrix: Soil

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Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
2-Hexanone	ND	ug/kg	25	8260B	jw	08/26/99
Iodomethane	ND	ug/kg	25	8260B	jw	08/26/99
Isopropylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
p-Isopropyltoluene	ND	ug/kg	25	8260B	jw	08/26/99
Methylene Chloride	ND	ug/kg	25	8260B	jw	08/26/99
4-Methyl-2-Pentanone	ND	ug/kg	250	8260B	jw	08/26/99
MTBE	ND	ug/kg	25	8260B	jw	08/26/99
Naphthalene	ND	ug/kg	25	8260B	jw	08/26/99
n-Propylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Styrene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1,2-Tetrachloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Tetrachloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Toluene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichloropropane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,3-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trichlorobenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,1,1-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
1,1,2-Trichloroethane	ND	ug/kg	25	8260B	jw	08/26/99
Trichloroethene	ND	ug/kg	25	8260B	jw	08/26/99
Trichlorofluoromethane	ND	ug/kg	25	8260B	jw	08/26/99
1,2,4-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
1,3,5-Trimethylbenzene	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Acetate	ND	ug/kg	25	8260B	jw	08/26/99
Vinyl Chloride	ND	ug/kg	10	8260B	jw	08/26/99
o-Xylene	ND	ug/kg	25	8260B	jw	08/26/99
p-m-Xylene	ND	ug/kg	25	8260B	jw	08/26/99

The detection limit reported is based



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**Sample Information**

Lab ID: 92323195-006  
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Date Sampled: 08/19/99 11:28  
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Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
(Comments cont.)						
on a X5 dilution of the sample.						
Detection limit due to matrix interference.						
<b><u>SURROGATE STUDIES - VOLATILES</u></b>						
Bromofluorobenzene	79	Percent			jw	08/26/99
Dibromofluoromethane	87	Percent			jw	08/26/99
Toluene-D8	90	Percent			jw	08/26/99
<b><u>MISCELLANEOUS TESTING</u></b>						
Percent Moisture	4.3	Percent			el	08/23/99
<b><u>PETROLEUM HYDROCARBON ANALYSIS</u></b>						
TPH-IR Extraction Date:	08/25/99				aa	
Total Petroleum Hydrocarbons (IR)	39	mg/kg	5	9071/418.1	aa	08/27/99