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. R-13
OTHER

May 26, 2000

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 *Migration of Contaminated Groundwater 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 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

RCRA RECORDS CENTER
FACILITY ISELI CO
I.D. NO. CTD083343269
FILE LOC. R-9
OTHER

ALTA Environmental Corp.
100 Amston Rd., Colchester, Connecticut 06415
(860) 537-2582
FAX:537-8374

TRANSMITTAL MEMORANDUM

TO: Ernie Waterman DATE: 3 March 2000

COMPANY: U.S. EPA Region I FILE NO: 100808

SUBJECT: RCRA Corrective Action Checklist for Groundwater Plume Under Control

FROM: Kelly Meloy, Vice President
ALTA Environmental Corporation

Copies	Date	Document
1	March 2000	Migration of Contaminated Groundwater Under Control Checklist and Addenda

Ernie,

As we discussed earlier this week, I've just finished the two plan view figures showing the shallow (water table) and intermediate-depth overburden chlorinated VOC plumes at the Iseli Company facility, and have finalized the subject checklist and addenda. The finalized package is in this transmittal. Please call me if you need anything further, or have any questions regarding this matter.

c: Ms. Deborah Slocum, Iseli Company, Terryville, Connecticut

Kelly

transmem.G002

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA750)

Migration of Contaminated Groundwater 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 the groundwater media, 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?

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

____ If no - re-evaluate existing data, or

____ if data are not available, skip to #8 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 "Migration of Contaminated Groundwater Under Control" EI

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "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 "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

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).

2. Is **groundwater** known or reasonably suspected to be "**contaminated**"[1] above appropriately protective "levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?

_X_ If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.

____ If no - skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."

____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s): see Item 2 Addendum

Footnotes:

[1]"Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

Iseli Company
CTD 083343269

Prepared by ALTA Environmental Corporation
Contact: Kelly Meloy, Vice President

Migration of Contaminated Groundwater Under Control --
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).

As discussed with Mr. Ernest Waterman of the EPA, two new wells, B409-MW(S) and B409-MW(I), were installed in October 1999 to attempt to bound the westerly edge of the overburden plume. The easterly edge had already been bounded by well B403-OW; the plume discharges to the northeast to Greystone Pond (i.e., the downgradient boundary). The plume is bounded in the upgradient direction by deep soil borings B303, B305 and B308, and wells OW-1 and OW-2. The two new wells were sampled on 20 October 1999, with the samples submitted to a State-certified laboratory for testing for VOCs by EPA Method 8260. No VOCs were detected in either groundwater sample hence these two new wells successfully bound the westerly edge of the overburden plume. The boring logs, observation well reports, groundwater analytical results and sampling record form for these new wells are attached. Figures 2 and 3 attached display the inferred extent of the shallow and intermediate-depth overburden VOC plumes.

In addition, Mr. Waterman noted that there was water flowing in only one of the stormwater outfalls from the facility during the July 1999 site visit, which followed an extremely dry period, and hence inferred that shallow groundwater was likely discharging to this outfall. Consequently, ALTA collected a sample of surface water from this outfall (SW-1) on both 19 August 1999 and 8 October 1999. These samples were tested for VOCs by EPA Method 8260; no VOCs were detected (see attached laboratory results, with sampling location shown on attached Figure 1).

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. The PW wells and one DW well are located beneath or just to the east of the easterly portion of the on-site building, while the second DW well is located near the pump house (to the northeast of the release and on-site building). VOCs have been found in bedrock groundwater only nearby the release and to the northeast of the release; VOCs have not been found in numerous bedrock drinking water wells to the southwest, west, northwest and farther east of the release.

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, 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 along with a map showing the locations of such supplies). This notification summarized 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 (in both June and November 1999). The June 1999 monitoring results were summarized in ALTA's "Results of Groundwater and Tap Water Monitoring - June 1999, Iseli Company, Terryville, Connecticut" report dated July 1999, which has previously been provided to the EPA and which includes 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; a spreadsheet summarizing historic and recent water quality data for these wells has already been provided to the EPA (in the "Current Human Exposures Under Control" submittal dated 22 September 1999). Iseli has committed to a semi-annual monitoring program for ten nearby private drinking water wells (described further below); the first semi-annual monitoring event was completed in November 1999. The results of the November monitoring are summarized in the attached letter to Mr. William Warzecha of the DEP dated 14 December 1999.

3. Has the **migration** of contaminated groundwater **stabilized** (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater"[2] as defined by the monitoring locations designated at the time of this determination)?

__X__ If yes - continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination"[2]).

_____ If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination"[2]) - skip to #8 and enter "NO" status code, after providing an explanation.

_____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s): see Item 3 Addendum

[2] "existing area of contaminated groundwater" is an area (with horizontal and vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

Prepared by ALTA Environmental Corporation
Contact: Kelly Meloy, Vice President

Migration of Contaminated Groundwater Under Control --
Item 3 Addendum:

The migration of the VOC plume has stabilized such that it is expected to remain within the "existing area of contaminated groundwater" designated herein, based on the following rationale:

1. Monitoring of groundwater quality in on-site overburden monitoring wells and bedrock water supply wells for the past several years has indicated that the groundwater plume is at steady state (i.e., contaminant concentrations in groundwater have not increased nor has the areal extent of the plume increased). 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 contaminant source (leaking USTs) in 1988, groundwater contaminant conditions are unlikely to change. However, once the proposed multi-phase extraction system is installed and operated within the former UST area (discussed below), groundwater conditions should begin to improve (i.e., with the plume decreasing in size and contaminant concentrations decreasing).

2. Monitoring of the private water supplies within 500 ft. of the overburden groundwater plume in 1991, 1996 and 1999 has shown non-detectable levels of VOCs. Nearby private drinking water supplies are located southwesterly, westerly, northwesterly and easterly of the site. Repeated testing of those supplies along with Iseli's PW and DW-series wells serve to define the extent of contamination within the bedrock aquifer, and demonstrate that the bedrock groundwater contaminant plume has stabilized. 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 planes 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. Underlying bedrock is crystalline metamorphic rock (the Collinsville Hornblende Gneiss and Hitchcock Lake Member of the Hartland Formation), with schist and gneiss layers. 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, and is therefore effectively monitored by the private drinking water wells located southwesterly, westerly, northwesterly and easterly of the site. As mentioned earlier, VOCs have not been detected in any of these fifteen water supplies during monitoring events completed from 1991 through 1999, and given the cessation of the release and its historic nature, it is highly improbable that such impacts would be seen in the future (i.e., the plume is not expanding).

3. Iseli has just selected and contracted with Dames & Moore to design, install and operate a high vacuum multi-phase extraction (MPE) remedial system to remove VOCs from soil and groundwater within the UST release area, specifically in the area where the majority of the contaminant mass has been found nearby the former USTs. Dames & Moore has proposed completion of its design by the end of February 2000, completion of necessary air and water discharge permitting by the end of April 2000, followed by system installation and start-up in June 2000. Once this system is operational, ALTA expects that significant contaminant mass will be removed from within the area of influence of the remedial system within the first 2 to 3 years, which will then be followed by noticeable decreases in contaminant concentrations in groundwater (both within and downgradient of the area addressed by the MPE system). Hence, at that time, the groundwater plume should begin to decrease in size and contaminant levels.

4. Does "contaminated" groundwater discharge into surface water bodies?

_X_ If yes - continue after identifying potentially affected surface water bodies.

____ If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.

____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

see Item 4 Addendum

Prepared by ALTA Environmental Corporation
Contact: Kelly Meloy, Vice President

Migration of Contaminated Groundwater Under Control --
Item 4 Addendum:

The groundwater plume is inferred to flow northeasterly discharging to Greystone Pond based on the plume configuration in both the overburden and bedrock aquifers, the land and bedrock surface topography which slope steeply to the northeast, and the bedrock foliation planes which strike northeasterly. Steep till-mantled bedrock-cored hillsides are located to the west, south and north of Greystone Pond which discharges to the southeast to Hancock Brook.

5. Is the discharge of "contaminated" groundwater into surface water likely to be "insignificant" (i.e., the maximum concentration[3] of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?

X If yes - skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration[3] of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgement/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.

____ If no - (the discharge of "contaminated" groundwater into surface water is potentially significant) - continue after documenting: 1) the maximum known or reasonably suspected concentration[3] of each contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations[3] greater than 100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.

____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

~~see Item 5 Addendum~~

[3] As measured in groundwater prior to entry to the groundwater-surface water/sediment interaction (e.g., hyporheic) zone.

Prepared by ALTA Environmental Corporation
Contact: Kelly Meloy, Vice President

Migration of Contaminated Groundwater Under Control –
Item 5 Addendum:

The discharge of the groundwater plume to Greystone Pond is not anticipated to have unacceptable impacts to the receiving surface water, sediments or eco-system for the following reasons: (i) the only groundwater contaminants are VOCs which are expected to be readily diluted and/or volatilized upon discharge to the receiving water body; (ii) the plume has stabilized (i.e., the plume extent and contaminant concentrations are stable) and the media transfer rate is therefore not changing; (iii) the groundwater contaminant levels nearest the plume's discharge location are below the conservative, default surface-water protection criteria (SWPC) in DEP's Remediation Standard Regulations as shown on the attached Table I (except in the case of PCE which is slightly above the default SWPC in two wells), and the average PCE concentration in the downgradient portion of the plume (106 ug/l) is below the site-specific SWPC of 176 ug/l (i.e., surface-water criterion of 8.8 ug/l x DAF of 20; DAF of 20 derived by dividing 25% of 7Q10 for Hancock Brook just upstream of discharge location (0.25 X 0.911 cfs) by Qplume of 0.011 cfs); and (iv) a multi-phase extraction remedial system is planned for installation and start-up in the next few months which should significantly reduce the groundwater contaminant loading to surface water.

6. Can the **discharge** of "contaminated" groundwater into surface water be shown to be "**currently acceptable**" (i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed to continue until a final remedy decision can be made and implemented[4])?

_____ If yes - continue after either: 1) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR 2) providing or referencing an interim-assessment,[5] appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and eco-systems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the EI determination.

_____ If no - (the discharge of "contaminated" groundwater can not be shown to be "**currently acceptable**") - skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.

_____ If unknown - skip to 8 and enter "IN" status code.

Rationale and Reference(s):_____

[4] Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.

[5] The understanding of the impacts of contaminated groundwater discharges into surface water bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.

7. Will groundwater monitoring / measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"

_X_ If yes - continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."

_____ If no - enter "NO" status code in #8.

_____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

see Item 7 Addendum

Migration of Contaminated Groundwater Under Control --
Item 7 Addendum:

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 the plume is stabilized and 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.

Additionally, on a semi-annual basis, Iseli will monitor about thirteen of the existing overburden wells within or bounding the overburden VOC plume for VOCs by EPA Method 8260 (or similar) to ensure that it remains stabilized. Iseli anticipates that the overburden monitoring network will be comprised of the following wells: OW-1; OW-2; OW-3; OW-6; OW-7; OW-7(I); B103-OW; B301-OW(S); B301-OW(I); B403-OW; B408-OW(I); B409-OW(S) and B409-OW(I).

8. Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).

__X__ YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the Iseli Company facility, EPA ID # CTD 083343269, located at 651 Greystone Rd., Terryville. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

____ NO - Unacceptable migration of contaminated groundwater is observed or expected.

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

Completed by (signature) [signature] Date 3-27-2000
(print) Ernest Waterman
(title) Geologist

Supervisor (signature) [signature] Date 5/23/00
(print) Matthew R. Hoagland
(title) Section Chief
(EPA Region or State) EPA-NE

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)_____
(phone #)_____
(e-mail)_____

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

RDMS Document ID# 697

Facility Name: Iseli Company

Phase Classification: R-13

Document Title: Environmental Indicator (EI) Determination, Migration of Contaminated Groundwater Under Control (CA 750 YE) - Iseli Co

Date of Document: 05-23-2000

Document Type: EI Determination

Purpose of Target Sheet:

[x] Oversized **[ ] Privileged**

[ ] Page(s) Missing **[ ] Other (Please Provide Purpose Below)**

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Comments:
Site Plan

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TABLE I

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

SAMPLE DESIGNATION	OW1	OW1	OW2	OW2	OW3	OW3	OW4	OW5	OW6	OW6	GWPC	SWPC	Volatilization Criteria	
SAMPLING DATE	20-Aug-96	4-June-99	20-Aug-96	4-June-99	20-Aug-96	4-June-99	20-Aug-96	19-Aug-96	19-Aug-96	4-June-99			Residential	Ind./Comm.
VOCs (ug/l)														
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
TPH (mg/l)	---	---	NA	---	---	---	46	NA	---	---	0.5	NE	NE	NE
METALS (mg/l)			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 ()		
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	OW7	OW7	OW7(I)	OW7(I)	B102S-OW	B102D-OW	B103-OW	B103-OW	GWPC	SWPC	Volatilization Criteria	
SAMPLING DATE	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.
VOCs (ug/l)												
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
TPH (mg/l)	---	---	---	---	4.6	---	54	14	0.5	NE	NE	NE
METALS (mg/l)	NA	NA	NA	NA	NA	NA					NE	NE
Arsenic							0.008	---	0.05	0.004		
Barium							0.05	0.07	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.
VOCs (ug/l)													
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
TPH (mg/l)	NA	---	1.3	---	---	---	---	0.6	---	0.5	NE	NE	NE
METALS (mg/l)	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.
VOCs (ug/l)														
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	---	---	---	---	---	---	---	---	---	---	7	96	1	6
cis-1,2-Dichloroethene	38	85	1,900	1,600	---	---	3	---	---	---	70	NE	NE	NE
trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	---	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	20	33	150	---	1	---	6	---	100	200	5	88	1,500	3,820
1,1,1,-Trichloroethane	8	17	---	---	---	---	---	---	---	---	200	62,000	20,400	50,000
Trichloroethene	26	33	---	---	---	---	1	---	2	6	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	---	---	---	---	---	---	---	---	---	---	2	15,750	2	2
Xylenes	---	---	---	---	---	---	---	---	---	---	530	NE	21,300	50,000
TPH (mg/l)	---	---	---	---	---	---	0.5	---	---	---	0.5	NE	NE	NE
METALS (mg/l)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NE	NE
Arsenic											0.05	0.004		
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											0.1	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

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.

T100807a.alw

ALTA Environmental Corporation	SOIL BORING EXPLORATION REPORT	BORING NO. B409 FILE NO. 1008-08 SHEET 1 of 1

PROJECT: SUBSURFACE INVESTIGATION
LOCATION: TERRYVILLE, CONNECTICUT
CLIENT: ISELI COMPANY
CONTRACTOR: SEABOARD DRILLING SERVICE
DRILLER: FRANK HARRINGTON

WELL NO. ----
LOCATION: See Plan
DATE: 10/7/99
ALTA REP: ALW

DEPTH (FT)	SAMPLER BLOWS PER FT.	SAMPLE NO. / REC. (IN)	SAMPLE DEPTH (FT)	VISUAL DESCRIPTION AND REMARKS
0	1, 1, 2, 8	S1 15	0.0-2.0	Dark brown silty fine to coarse SAND, little roots. Wet at 1.8 ft.
				- TOPSOIL -
				~ 3.0
5	3, 6, 13, 14	S2 10	5.0-7.0	Brown to yellow-brown coarse to fine SAND, little silt. Wet.
				- STRATIFIED DRIFT OR SAND AND GRAVEL FILL -
10	100/2 in.	R=0	10.0-10.2	
	110	S3 / 3	13.5-14.0	Orange medium to fine GRAVEL, little gray-brown coarse to fine sand (boulder fragments). Wet.
15				Auger/split-spoon refusal at 14.0 ft.
20				
25				

RIG TYPE\MODEL: Mobile Drill B-47 Track-mounted
SAMPLER TYPE: Split spoon
HAMMER WEIGHT\FALL: 140 lbs. / 30 in.
HSA ID\OD: 4.25 in. / 7.5 in.
DRILLING MUD OR WATER:
OTHER NOTES:

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	BOTTOM OF HOLE	WATER
10/7/99	1425	0	---	14.0	1.8

ALTA Environmental Corporation	SOIL BORING EXPLORATION REPORT	BORING NO. B409A FILE NO. 1008-08 SHEET 1 of 2

PROJECT: SUBSURFACE INVESTIGATION
LOCATION: TERRYVILLE, CONNECTICUT
CLIENT: ISELI COMPANY
CONTRACTOR: SEABOARD DRILLING SERVICE
DRILLER: FRANK HARRINGTON

WELL NO. B409-MW(I)
LOCATION: See Plan
DATE: 10/8/99
ALTA REP: ALW

DEPTH (FT)	SAMPLER BLOWS PER FT.	SAMPLE NO. / REC. (IN)	SAMPLE DEPTH (FT)	VISUAL DESCRIPTION AND REMARKS
0				
				B409A - 23 ft. east of B409
5				
				- STRATIFIED DRIFT OR SAND AND GRAVEL FILL - (refer to B409)
10				
				~ 14.0
15	10, 13, 14, 16	S1 12	15.0-17.0	Gray-brown clayey fine to medium SAND, some silt, little coarse sand, trace fine gravel. Wet.
				- GLACIAL TILL -
20	6, 12, 13, 83	S2 12	20.0-22.0	Gray-brown silty fine to medium SAND, little coarse sand, clay, medium to fine gravel (weathered rock?). Wet.
25				

RIG TYPE\MODEL: Mobile Drill B-47 Track-mounted
SAMPLER TYPE: Split spoon
HAMMER WEIGHT\FALL: 140 lbs. / 30 in.
HSA ID\OD: 4.25 in. / 7.5 in.
DRILLING MUD OR WATER:
OTHER NOTES:

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO: BOTTOM OF CASING	BOTTOM OF HOLE	WATER
10/8/99	0920	0	---	31.5	3.0

ALTA Environmental Corporation	SOIL BORING EXPLORATION REPORT	BORING NO. B409A FILE NO. 1008-08 SHEET 2 of 2

PROJECT: SUBSURFACE INVESTIGATION
LOCATION: TERRYVILLE, CONNECTICUT
CLIENT: ISELI COMPANY
CONTRACTOR: SEABOARD DRILLING SERVICE
DRILLER: FRANK HARRINGTON

WELL NO. B409-MW(I)
LOCATION: See Plan
DATE: 10/8/99
ALTA REP: ALW

DEPTH (FT)	SAMPLER BLOWS PER FT.	SAMPLE NO. / REC. (IN)	SAMPLE DEPTH (FT)	VISUAL DESCRIPTION AND REMARKS
25	16 16 10 16	S3 12	25.0-27.0	Same as S2, with a 1-in. layer of brown coarse to fine sand at 26 ft. Wet.
30	35 92 108	S4 10	30.0-31.5	Same as S2. Weathered rock in tip. Wet.
35 40 45 50				Auger refusal at 30.5 ft. on apparent bedrock.

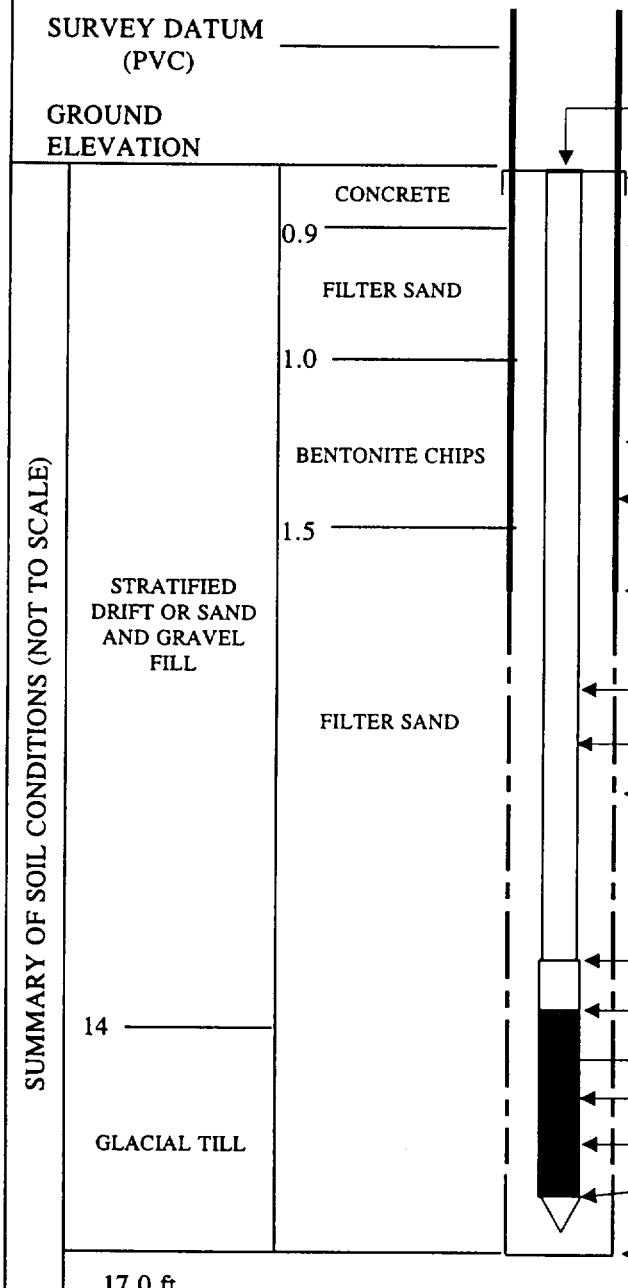
ALTA Environmental Corporation	GROUNDWATER OBSERVATION WELL REPORT	WELL NO. B409-MW(S) FILE NO. 1008-08

PROJECT: SUBSURFACE INVESTIGATION
LOCATION: TERRYVILLE, CONNECTICUT
CLIENT: ISELI COMPANY
CONTRACTOR: SEABOARD DRILLING
DRILLER: FRANK HARRINGTON

BORING NO. B409B
LOCATION: See Plan
INSTALL DATE: 10/8/99
ALTA REP: ALW

SURVEY DATUM (PVC) _____

GROUND ELEVATION _____



STICKUP ABOVE GROUND SURFACE OF STEEL CASING	2.5 ft.
DEPTH ABOVE GROUND SURFACE OF RISER PIPE	2.3 ft.
DEPTH AND TYPE OF SURFACE SEALS [INDICATE ALL SEALS SHOWING DEPTH, THICKNESS AND TYPE]	Concrete: 0.0-0.9 Bentonite Chips: 1.0-1.5
TYPE OF CASING	Steel Casing
INSIDE DIAMETER OF CASING	4.0 in.
DEPTH OF BOTTOM OF CASING	2.5 ft.
INSIDE DIAMETER OF RISER PIPE	2.0 in.
TYPE OF BACKFILL AROUND RISER	Bentonite Chips/Grout
DIAMETER OF BOREHOLE	8.0 in.
DEPTH OF BOTTOM OF RISER	2.0 ft.
TYPE OF SCREEN	Slotted PVC
SIZE OF OPENINGS	0.010 in.
DIAMETER OF WELLSCREEN	2.0 in.
TYPE OF BACKFILL AROUND SCREEN	Filter Sand
DEPTH OF BOTTOM OF SCREEN	17.0 ft.
DEPTH OF BOTTOM OF BOREHOLE & WELL SUMP SECTION	17.0 ft.

[FIGURES REFER TO DEPTH]

[5.0 ft. / LENGTH OF CASING] [4.0 ft. / LENGTH OF RISER PIPE + 15.0 ft. / LENGTH OF SCREEN = 19.0 ft. / LENGTH]

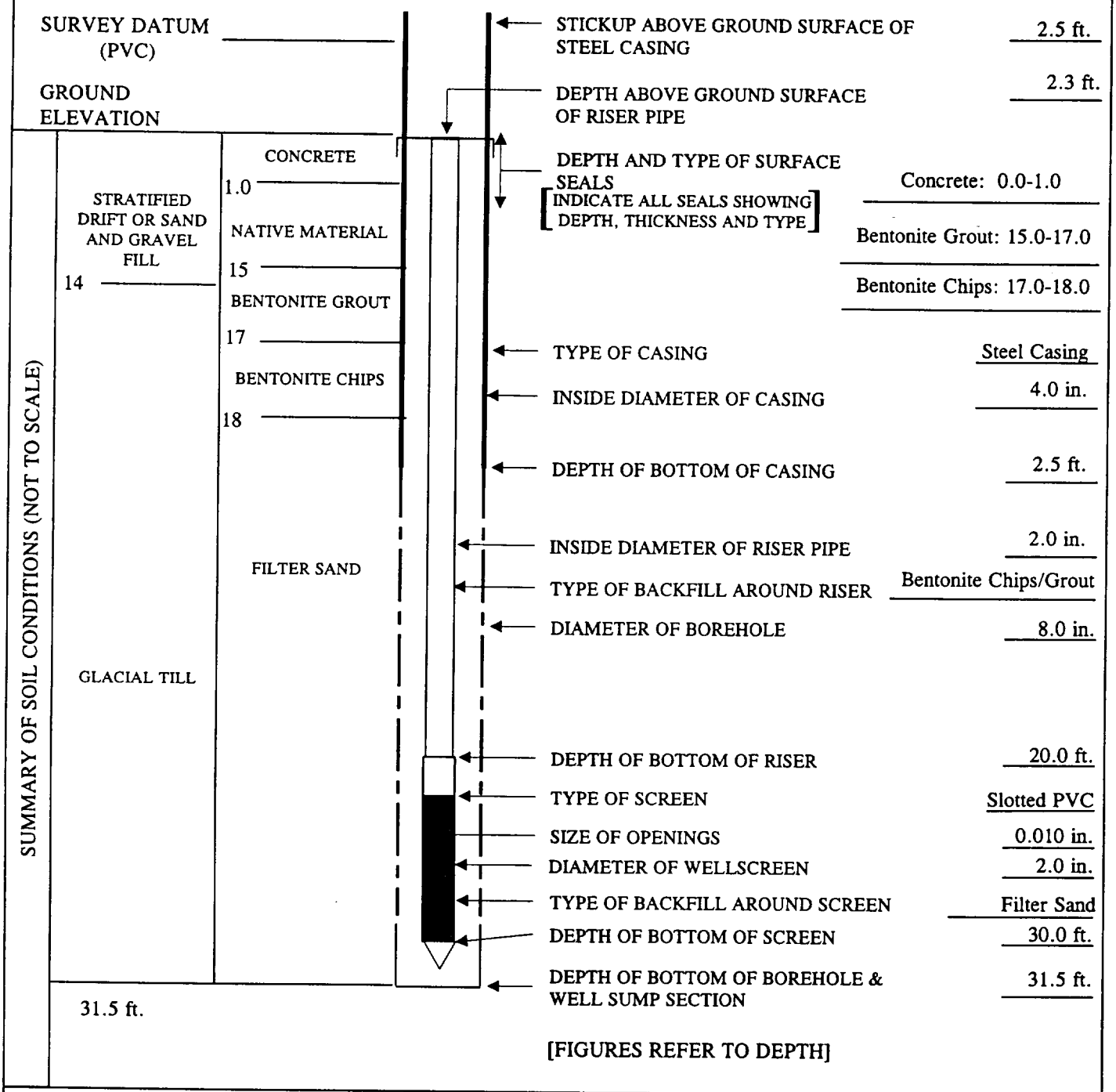
ALTA Environmental Corporation	GROUNDWATER OBSERVATION WELL REPORT	WELL NO. B409-MW(I) FILE NO. 1008-08

PROJECT: SUBSURFACE INVESTIGATION
LOCATION: TERRYVILLE, CONNECTICUT
CLIENT: ISELI COMPANY
CONTRACTOR: SEABOARD DRILLING
DRILLER: FRANK HARRINGTON

BORING NO. B409A
LOCATION: See Plan
INSTALL DATE: 10/8/99
ALTA REP: ALW

SURVEY DATUM (PVC) _____

GROUND ELEVATION _____



[5.0 ft. / LENGTH OF CASING] [22.0 ft. / LENGTH OF RISER PIPE + 10.0 ft. / LENGTH OF SCREEN = 32.0 ft. / LENGTH]

ANALYTICAL DATA SUMMARY

Report Date:	10/27/99
Account:	ALTA Environmental, Inc.
Address:	100 Amston Road Colchester, CT 06415 860-537-2582
Project Manager:	K. Meloy
Project Name:	Iseli GW (10/22/99)
Project No.:	1008-08

Sample Information:

Laboratory ID	Client/Field ID	Laboratory ID	Client/Field ID
92954417-001	B409-MW(S)	92954417-003	QC-Report - Water
92954417-002	B409-MW(I)		

Reviewed by

Glen Breland
Laboratory Director

Lab Certifications

EPA ID: No. MA059	Florida(DEP): QA Plan No. 900437G
Massachusetts: No. M-MA059	Florida(HRS): No. E87290
Maine: Reciprocity	Connecticut: No. PH0515
Rhode Island: No. 87	New York: ELAP No. 11116
South Carolina: No. 88011	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.	Project Name:	Iseli GW (10/22/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92954417-001	Date Sampled:	10/20/99 09:40
Client ID:	B409-MW(S)	Date Received:	10/22/99 : 0
Matrix:	Water	Date Reported:	10/27/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8260B	ak	10/25/99
Acrolein	ND	ug/l	100	8260B	ak	10/25/99
Acrylonitrile	ND	ug/l	100	8260B	ak	10/25/99
Benzene	ND	ug/l	1	8260B	ak	10/25/99
Bromobenzene	ND	ug/l	5	8260B	ak	10/25/99
Bromochloromethane	ND	ug/l	5	8260B	ak	10/25/99
Bromodichloromethane	ND	ug/l	5	8260B	ak	10/25/99
Bromoform	ND	ug/l	5	8260B	ak	10/25/99
Bromomethane	ND	ug/l	5	8260B	ak	10/25/99
2-Butanone	ND	ug/l	100	8260B	ak	10/25/99
n-Butylbenzene	ND	ug/l	5	8260B	ak	10/25/99
sec-Butylbenzene	ND	ug/l	5	8260B	ak	10/25/99
tert-Butylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Carbon Disulfide	ND	ug/l	5	8260B	ak	10/25/99
Carbon Tetrachloride	ND	ug/l	5	8260B	ak	10/25/99
Chlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
Chloroethane	ND	ug/l	5	8260B	ak	10/25/99
2-Chloroethylvinyl Ether	ND	ug/l	5	8260B	ak	10/25/99
Chloroform	ND	ug/l	5	8260B	ak	10/25/99
Chloromethane	ND	ug/l	5	8260B	ak	10/25/99
2-Chlorotoluene	ND	ug/l	5	8260B	ak	10/25/99
4-Chlorotoluene	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dibromo-3-Chloropropane	ND	ug/l	5	8260B	ak	10/25/99
Dibromochloromethane	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dibromoethane (EDB)	ND	ug/l	5	8260B	ak	10/25/99
Dibromomethane	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
1,3-Dichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99

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.	Project Name:	Iseli GW (10/22/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92954417-001	Date Sampled:	10/20/99 09:40
Client ID:	B409-MW(S)	Date Received:	10/22/99 : 0
Matrix:	Water	Date Reported:	10/27/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
1,4-Dichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
Dichlorodifluoromethane	ND	ug/l	5	8260B	ak	10/25/99
1,1-Dichloroethane	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dichloroethane	ND	ug/l	1	8260B	ak	10/25/99
1,1-Dichloroethene	ND	ug/l	5	8260B	ak	10/25/99
cis-1,2-Dichloroethene	ND	ug/l	5	8260B	ak	10/25/99
trans-1,2-Dichloroethene	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dichloropropane	ND	ug/l	5	8260B	ak	10/25/99
1,3-Dichloropropane	ND	ug/l	5	8260B	ak	10/25/99
2,2-Dichloropropane	ND	ug/l	5	8260B	ak	10/25/99
1,1-Dichloropropene	ND	ug/l	5	8260B	ak	10/25/99
cis-1,3-Dichloropropene	ND	ug/l	5	8260B	ak	10/25/99
trans-1,3-Dichloropropene	ND	ug/l	5	8260B	ak	10/25/99
Ethylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Hexachlorobutadiene	ND	ug/l	5	8260B	ak	10/25/99
2-Hexanone	ND	ug/l	5	8260B	ak	10/25/99
Iodomethane	ND	ug/l	5	8260B	ak	10/25/99
Isopropylbenzene	ND	ug/l	5	8260B	ak	10/25/99
p-Isopropyltoluene	ND	ug/l	5	8260B	ak	10/25/99
Methylene Chloride	ND	ug/l	5	8260B	ak	10/25/99
4-Methyl-2-Pentanone	ND	ug/l	50	8260B	ak	10/25/99
MTBE	ND	ug/l	5	8260B	ak	10/25/99
Naphthalene	ND	ug/l	5	8260B	ak	10/25/99
n-Propylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Styrene	ND	ug/l	5	8260B	ak	10/25/99
1,1,1,2-Tetrachloroethane	ND	ug/l	5	8260B	ak	10/25/99
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8260B	ak	10/25/99
Tetrachloroethene	ND	ug/l	5	8260B	ak	10/25/99

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.	Project Name:	Iseli GW (10/22/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92954417-001	Date Sampled:	10/20/99 09:40
Client ID:	B409-MW(S)	Date Received:	10/22/99 : 0
Matrix:	Water	Date Reported:	10/27/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Toluene	ND	ug/l	5	8260B	ak	10/25/99
1,2,3-Trichloropropane	ND	ug/l	5	8260B	ak	10/25/99
1,2,3-Trichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
1,2,4-Trichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
1,1,1-Trichloroethane	ND	ug/l	5	8260B	ak	10/25/99
1,1,2-Trichloroethane	ND	ug/l	5	8260B	ak	10/25/99
Trichloroethene	ND	ug/l	5	8260B	ak	10/25/99
Trichlorofluoromethane	ND	ug/l	5	8260B	ak	10/25/99
1,2,4-Trimethylbenzene	ND	ug/l	5	8260B	ak	10/25/99
1,3,5-Trimethylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Vinyl Acetate	ND	ug/l	5	8260B	ak	10/25/99
Vinyl Chloride	ND	ug/l	2	8260B	ak	10/25/99
o-Xylene	ND	ug/l	5	8260B	ak	10/25/99
p-m-Xylene	ND	ug/l	5	8260B	ak	10/25/99
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene	99	Percent			ak	10/25/99
Dibromofluoromethane	102	Percent			ak	10/25/99
Toluene-D8	100	Percent			ak	10/25/99

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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Iseli GW (10/22/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92954417-002	Date Sampled:	10/20/99 09:20
Client ID:	B409-MW(I)	Date Received:	10/22/99 : 0
Matrix:	Water	Date Reported:	10/27/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8260B	ak	10/25/99
Acrolein	ND	ug/l	100	8260B	ak	10/25/99
Acrylonitrile	ND	ug/l	100	8260B	ak	10/25/99
Benzene	ND	ug/l	1	8260B	ak	10/25/99
Bromobenzene	ND	ug/l	5	8260B	ak	10/25/99
Bromochloromethane	ND	ug/l	5	8260B	ak	10/25/99
Bromodichloromethane	ND	ug/l	5	8260B	ak	10/25/99
Bromoform	ND	ug/l	5	8260B	ak	10/25/99
Bromomethane	ND	ug/l	5	8260B	ak	10/25/99
2-Butanone	ND	ug/l	100	8260B	ak	10/25/99
n-Butylbenzene	ND	ug/l	5	8260B	ak	10/25/99
sec-Butylbenzene	ND	ug/l	5	8260B	ak	10/25/99
tert-Butylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Carbon Disulfide	ND	ug/l	5	8260B	ak	10/25/99
Carbon Tetrachloride	ND	ug/l	5	8260B	ak	10/25/99
Chlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
Chloroethane	ND	ug/l	5	8260B	ak	10/25/99
2-Chloroethylvinyl Ether	ND	ug/l	5	8260B	ak	10/25/99
Chloroform	ND	ug/l	5	8260B	ak	10/25/99
Chloromethane	ND	ug/l	5	8260B	ak	10/25/99
2-Chlorotoluene	ND	ug/l	5	8260B	ak	10/25/99
4-Chlorotoluene	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dibromo-3-Chloropropane	ND	ug/l	5	8260B	ak	10/25/99
Dibromochloromethane	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dibromoethane (EDB)	ND	ug/l	5	8260B	ak	10/25/99
Dibromomethane	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
1,3-Dichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99

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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Iseli GW (10/22/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92954417-002	Date Sampled:	10/20/99 09:20
Client ID:	B409-MW(I)	Date Received:	10/22/99 : 0
Matrix:	Water	Date Reported:	10/27/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
1,4-Dichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
Dichlorodifluoromethane	ND	ug/l	5	8260B	ak	10/25/99
1,1-Dichloroethane	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dichloroethane	ND	ug/l	1	8260B	ak	10/25/99
1,1-Dichloroethene	ND	ug/l	5	8260B	ak	10/25/99
cis-1,2-Dichloroethene	ND	ug/l	5	8260B	ak	10/25/99
trans-1,2-Dichloroethene	ND	ug/l	5	8260B	ak	10/25/99
1,2-Dichloropropane	ND	ug/l	5	8260B	ak	10/25/99
1,3-Dichloropropane	ND	ug/l	5	8260B	ak	10/25/99
2,2-Dichloropropane	ND	ug/l	5	8260B	ak	10/25/99
1,1-Dichloropropene	ND	ug/l	5	8260B	ak	10/25/99
cis-1,3-Dichloropropene	ND	ug/l	5	8260B	ak	10/25/99
trans-1,3-Dichloropropene	ND	ug/l	5	8260B	ak	10/25/99
Ethylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Hexachlorobutadiene	ND	ug/l	5	8260B	ak	10/25/99
2-Hexanone	ND	ug/l	5	8260B	ak	10/25/99
Iodomethane	ND	ug/l	5	8260B	ak	10/25/99
Isopropylbenzene	ND	ug/l	5	8260B	ak	10/25/99
p-Isopropyltoluene	ND	ug/l	5	8260B	ak	10/25/99
Methylene Chloride	ND	ug/l	5	8260B	ak	10/25/99
4-Methyl-2-Pentanone	ND	ug/l	50	8260B	ak	10/25/99
MTBE	ND	ug/l	5	8260B	ak	10/25/99
Naphthalene	ND	ug/l	5	8260B	ak	10/25/99
n-Propylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Styrene	ND	ug/l	5	8260B	ak	10/25/99
1,1,1,2-Tetrachloroethane	ND	ug/l	5	8260B	ak	10/25/99
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8260B	ak	10/25/99
Tetrachloroethene	ND	ug/l	5	8260B	ak	10/25/99

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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Iseli GW (10/22/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92954417-002	Date Sampled:	10/20/99 09:20
Client ID:	B409-MW(I)	Date Received:	10/22/99 : 0
Matrix:	Water	Date Reported:	10/27/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Toluene	ND	ug/l	5	8260B	ak	10/25/99
1,2,3-Trichloropropane	ND	ug/l	5	8260B	ak	10/25/99
1,2,3-Trichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
1,2,4-Trichlorobenzene	ND	ug/l	5	8260B	ak	10/25/99
1,1,1-Trichloroethane	ND	ug/l	5	8260B	ak	10/25/99
1,1,2-Trichloroethane	ND	ug/l	5	8260B	ak	10/25/99
Trichloroethene	ND	ug/l	5	8260B	ak	10/25/99
Trichlorofluoromethane	ND	ug/l	5	8260B	ak	10/25/99
1,2,4-Trimethylbenzene	ND	ug/l	5	8260B	ak	10/25/99
1,3,5-Trimethylbenzene	ND	ug/l	5	8260B	ak	10/25/99
Vinyl Acetate	ND	ug/l	5	8260B	ak	10/25/99
Vinyl Chloride	ND	ug/l	2	8260B	ak	10/25/99
o-Xylene	ND	ug/l	5	8260B	ak	10/25/99
p-m-Xylene	ND	ug/l	5	8260B	ak	10/25/99
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene	101	Percent			ak	10/25/99
Dibromofluoromethane	101	Percent			ak	10/25/99
Toluene-D8	100	Percent			ak	10/25/99

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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Iseli GW (10/22/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	

Sample Information

Lab ID:	92954417-003	Date Sampled:	/ / :
Client ID:	QC-Report - Water	Date Received:	/ / : 0
Matrix:	Water	Date Reported:	10/27/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
METHOD BLANKS						
Method Blank - Volatile	ND	ug/l		8260B		
MATRIX SPIKE STUDIES - VOLATILES						
Sample ID:	3855-001					
Benzene	107	Percent				
Chlorobenzene	105	Percent				
1,1-Dichloroethene	126	Percent				
Toluene	107	Percent				
Trichloroethene	110	Percent				

METHOD SUMMARIES

Volatile organic analysis is performed using Hewlett Packard 5890 GC's and 5970 and 5972 MSD's when requested. Chromatography incorporates megabore columns. Procedures follow EPA and SW846 guidelines for all analysis.

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. Rev. December 1996.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 18th Edition. 1992.
4. EPA Methods For The Determination of Organic Compounds in Drinking Water.

Project Information		Client Information	
Project Name:	Iseli GW	Send Reports to:	A. Williams
Project No.:	1008-08	Company:	ALTA Envi
Project Location:	Terryville CT	Address	100 Amston Rd
Project Manager:	K. Meloy		Colchester CT
Sampler(s):	A. Williams	Phone:	
PO #:		Fax:	
Lab Quote #:		Email:	amy@altaenv.com
Turn-Around:	❑ Standard business days	**Final Report:**	☒ Mail ☒ Email ❑ Fax
Less than 10 days must be approved	❑ Other (specify) ____	❑ EDT Diskette (if check, call for pricing)	
	❑ Approved by: ____	Disk format:	

VOCs by 8260

FILTRATION (0.45 um) & PRESERVATION INFORMATION

Page 1/1

FILTRATION	PRESERVATION
❑ DONE	☒ DONE
☒ NOT NEEDED	❑ NOT NEEDED
❑ LAB TO DO*	❑ LAB TO DO*

**Please specify which samples need to be filtered and/or preserved by the lab.*

SPECIAL DETECTION LIMITS

MCP ____
CT ____
NYSTARS ____
OTHER ____

Lab ID (Lab Use Only)	Client/Field Sample ID	Collection Date	Collection Time	Sample Source / Matrix	VOCs by 8260	Sample Remarks (below)	TOTAL # OF BOTTLES
	B409-MW(S)	10/20/99	0940	Water	X		2
	B409-MW(I)	↓	0920	↓	X		2

Analyses (write test methods above & "x's" below for each sample to be tested)

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
Phone: (800) 362-8749
Fax: (508) 435-2497

NOTES:

Bill Iseli directly

7 °C

CHAIN-OF-CUSTODY RECORD

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/22/99 1500	[signature]	10/22/99 1500
		[signature]	10/22/99

Condition of Samples Upon Arrival
☐ Okay ☐ Problem(s) ☐ Temp. ____

Distribution of Copies
White - Lab Yellow-Report Pink-Client

ALTA Environmental Corporation
GROUNDWATER MONITORING RECORD FORM (a)

FILE NO.	1008-08	CLIENT:	Iseli Company
SAMPLING DATE:	10/20/99	PROJECT:	Groundwater Testing
FIELD PERSONNEL:	Amy Williams	LOCATION:	Terryville, CT

WEATHER

Temp (deg F) <20 - 20 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - >90

Sunny; Partly cloudy; Rain (Light/Heavy); Sleet (Light/Heavy); Snow (Light/Heavy); Overcast; Heavy Clouds; Dry; Slightly humid; Mod. humid; Very humid

WIND CONDITIONS: None to Little; Little to Mod.; Mod. to Heavy; Steady; Variable; Direction From:_____

GROUND SURFACE CONDITIONS: Dry; Damp; Wet; Standing Water; Snow:_____ in.; Other:_____

WELL NO:	B409-MW(I)	B409-MW(S)				
TIME	0847	0845				
WATER DEPTH (PVC) (FT)	4.52	3.79				
DEPTH OF WELL (PVC) (FT)	31.65	17.73				
DEPTH TO PRODUCT (FT)/THICKNESS (IN)	NONE	NONE				
STANDING WATER DEPTH (FT)	27.13	13.94				
VOLUME OF WATER IN WELL (GAL)	4.4 GAL	2.2 GAL				
PURGING/SAMPLING DEVICE	Disposable Bailer	Disposable Bailer				
BAILS REMOVED/ VOLUME REMOVED	15 GAL	10 GAL				
PURGING STARTED/ STOPPED	0852 / 0918	0 / 0938				
ODOR	NONE	NONE				
COLOR OF SEDIMENT	GRAY	BRN				
CLARITY	CLOUDY	CLOUDY				
PH	—	—				
TEMP. (DEG C)	—	—				
CONDUCTIVITY (umhos/cm)	—	—				
TIME SAMPLED: VOCs	0920	0940				

NOTES:

General Notes:

a. All wells assumed to be 2-in. ID PVC, and purged and sampled using a disposable bailer unless otherwise noted. All non-disposable monitoring equipment cleaned using the following sequence, unless otherwise noted: non-phosphate detergent wash, tap water rinse, methanol wipe or rinse, distilled or deionized water rinse, paper towel or air dry.

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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.	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:	92323195-012	Date Sampled:	08/19/99 12:50
Client ID:	SW-1	Date Received:	08/20/99 : 0
Matrix:	Water	Date Reported:	09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8260B	ak	08/24/99
Acrolein	ND	ug/l	100	8260B	ak	08/24/99
Acrylonitrile	ND	ug/l	100	8260B	ak	08/24/99
Benzene	ND	ug/l	1	8260B	ak	08/24/99
Bromobenzene	ND	ug/l	5	8260B	ak	08/24/99
Bromochloromethane	ND	ug/l	5	8260B	ak	08/24/99
Bromodichloromethane	ND	ug/l	5	8260B	ak	08/24/99
Bromoform	ND	ug/l	5	8260B	ak	08/24/99
Bromomethane	ND	ug/l	5	8260B	ak	08/24/99
2-Butanone	ND	ug/l	100	8260B	ak	08/24/99
n-Butylbenzene	ND	ug/l	5	8260B	ak	08/24/99
sec-Butylbenzene	ND	ug/l	5	8260B	ak	08/24/99
tert-Butylbenzene	ND	ug/l	5	8260B	ak	08/24/99
Carbon Disulfide	ND	ug/l	5	8260B	ak	08/24/99
Carbon Tetrachloride	ND	ug/l	5	8260B	ak	08/24/99
Chlorobenzene	ND	ug/l	5	8260B	ak	08/24/99
Chloroethane	ND	ug/l	5	8260B	ak	08/24/99
2-Chloroethylvinyl Ether	ND	ug/l	5	8260B	ak	08/24/99
Chloroform	ND	ug/l	5	8260B	ak	08/24/99
Chloromethane	ND	ug/l	5	8260B	ak	08/24/99
2-Chlorotoluene	ND	ug/l	5	8260B	ak	08/24/99
4-Chlorotoluene	ND	ug/l	5	8260B	ak	08/24/99
1,2-Dibromo-3-Chloropropane	ND	ug/l	5	8260B	ak	08/24/99
Dibromochloromethane	ND	ug/l	5	8260B	ak	08/24/99
1,2-Dibromoethane (EDB)	ND	ug/l	5	8260B	ak	08/24/99
Dibromomethane	ND	ug/l	5	8260B	ak	08/24/99
1,2-Dichlorobenzene	ND	ug/l	5	8260B	ak	08/24/99
1,3-Dichlorobenzene	ND	ug/l	5	8260B	ak	08/24/99

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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: 92323195-012
Client ID: SW-1
Matrix: Water

Date Sampled: 08/19/99 12:50
Date Received: 08/20/99 : 0
Date Reported: 09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
1,4-Dichlorobenzene	ND	ug/l	5	8260B	ak	08/24/99
Dichlorodifluoromethane	ND	ug/l	5	8260B	ak	08/24/99
1,1-Dichloroethane	ND	ug/l	5	8260B	ak	08/24/99
1,2-Dichloroethane	ND	ug/l	1	8260B	ak	08/24/99
1,1-Dichloroethene	ND	ug/l	5	8260B	ak	08/24/99
cis-1,2-Dichloroethene	ND	ug/l	5	8260B	ak	08/24/99
trans-1,2-Dichloroethene	ND	ug/l	5	8260B	ak	08/24/99
1,2-Dichloropropane	ND	ug/l	5	8260B	ak	08/24/99
1,3-Dichloropropane	ND	ug/l	5	8260B	ak	08/24/99
2,2-Dichloropropane	ND	ug/l	5	8260B	ak	08/24/99
1,1-Dichloropropene	ND	ug/l	5	8260B	ak	08/24/99
cis-1,3-Dichloropropene	ND	ug/l	5	8260B	ak	08/24/99
trans-1,3-Dichloropropene	ND	ug/l	5	8260B	ak	08/24/99
Ethylbenzene	ND	ug/l	5	8260B	ak	08/24/99
Hexachlorobutadiene	ND	ug/l	5	8260B	ak	08/24/99
2-Hexanone	ND	ug/l	5	8260B	ak	08/24/99
Iodomethane	ND	ug/l	5	8260B	ak	08/24/99
Isopropylbenzene	ND	ug/l	5	8260B	ak	08/24/99
p-Isopropyltoluene	ND	ug/l	5	8260B	ak	08/24/99
Methylene Chloride	ND	ug/l	5	8260B	ak	08/24/99
4-Methyl-2-Pentanone	ND	ug/l	50	8260B	ak	08/24/99
MTBE	ND	ug/l	5	8260B	ak	08/24/99
Naphthalene	ND	ug/l	5	8260B	ak	08/24/99
n-Propylbenzene	ND	ug/l	5	8260B	ak	08/24/99
Styrene	ND	ug/l	5	8260B	ak	08/24/99
1,1,1,2-Tetrachloroethane	ND	ug/l	5	8260B	ak	08/24/99
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8260B	ak	08/24/99
Tetrachloroethene	ND	ug/l	5	8260B	ak	08/24/99

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.	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:	92323195-012	Date Sampled:	08/19/99 12:50
Client ID:	SW-1	Date Received:	08/20/99 : 0
Matrix:	Water	Date Reported:	09/02/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Toluene	ND	ug/l	5	8260B	ak	08/24/99
1,2,3-Trichloropropane	ND	ug/l	5	8260B	ak	08/24/99
1,2,3-Trichlorobenzene	ND	ug/l	5	8260B	ak	08/24/99
1,2,4-Trichlorobenzene	ND	ug/l	5	8260B	ak	08/24/99
1,1,1-Trichloroethane	ND	ug/l	5	8260B	ak	08/24/99
1,1,2-Trichloroethane	ND	ug/l	5	8260B	ak	08/24/99
Trichloroethene	ND	ug/l	5	8260B	ak	08/24/99
Trichlorofluoromethane	ND	ug/l	5	8260B	ak	08/24/99
1,2,4-Trimethylbenzene	ND	ug/l	5	8260B	ak	08/24/99
1,3,5-Trimethylbenzene	ND	ug/l	5	8260B	ak	08/24/99
Vinyl Acetate	ND	ug/l	5	8260B	ak	08/24/99
Vinyl Chloride	ND	ug/l	2	8260B	ak	08/24/99
o-Xylene	ND	ug/l	5	8260B	ak	08/24/99
p-m-Xylene	ND	ug/l	5	8260B	ak	08/24/99
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene	92	Percent			ak	08/24/99
Dibromofluoromethane	92	Percent			ak	08/24/99
Toluene-D8	99	Percent			ak	08/24/99

ANALYTICAL DATA SUMMARY

Report Date:	10/19/99
Account:	ALTA Environmental, Inc.
Address:	100 Amston Road Colchester, CT 06415 860-537-2582
Project Manager:	K. Meloy
Project Name:	Iseli (10/12/99)
Project No.:	1008-08

Sample Information:

Laboratory ID	Client/Field ID	Laboratory ID	Client/Field ID
92853830-001	SW1	92853830-002	QC-Report - Water

Reviewed by

Glen Breland
Laboratory Director

Lab Certifications

EPA ID: No. MA059	Florida(DEP): QA Plan No. 900437G
Massachusetts: No. M-MA059	Florida(HRS): No. E87290
Maine: Reciprocity	Connecticut: No. PH0515
Rhode Island: No. 87	New York: ELAP No. 11116
South Carolina: No. 88011	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.	Project Name:	Iseli (10/12/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92853830-001	Date Sampled:	10/08/99 12:10
Client ID:	SW1	Date Received:	10/12/99 : 0
Matrix:	Water	Date Reported:	10/19/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8260B	jw	10/19/99
Acrolein	ND	ug/l	100	8260B	jw	10/19/99
Acrylonitrile	ND	ug/l	100	8260B	jw	10/19/99
Benzene	ND	ug/l	1	8260B	jw	10/19/99
Bromobenzene	ND	ug/l	5	8260B	jw	10/19/99
Bromochloromethane	ND	ug/l	5	8260B	jw	10/19/99
Bromodichloromethane	ND	ug/l	5	8260B	jw	10/19/99
Bromoform	ND	ug/l	5	8260B	jw	10/19/99
Bromomethane	ND	ug/l	5	8260B	jw	10/19/99
2-Butanone	ND	ug/l	100	8260B	jw	10/19/99
n-Butylbenzene	ND	ug/l	5	8260B	jw	10/19/99
sec-Butylbenzene	ND	ug/l	5	8260B	jw	10/19/99
tert-Butylbenzene	ND	ug/l	5	8260B	jw	10/19/99
Carbon Disulfide	ND	ug/l	5	8260B	jw	10/19/99
Carbon Tetrachloride	ND	ug/l	5	8260B	jw	10/19/99
Chlorobenzene	ND	ug/l	5	8260B	jw	10/19/99
Chloroethane	ND	ug/l	5	8260B	jw	10/19/99
2-Chloroethylvinyl Ether	ND	ug/l	5	8260B	jw	10/19/99
Chloroform	ND	ug/l	5	8260B	jw	10/19/99
Chloromethane	ND	ug/l	5	8260B	jw	10/19/99
2-Chlorotoluene	ND	ug/l	5	8260B	jw	10/19/99
4-Chlorotoluene	ND	ug/l	5	8260B	jw	10/19/99
1,2-Dibromo-3-Chloropropane	ND	ug/l	5	8260B	jw	10/19/99
Dibromochloromethane	ND	ug/l	5	8260B	jw	10/19/99
1,2-Dibromoethane (EDB)	ND	ug/l	5	8260B	jw	10/19/99
Dibromomethane	ND	ug/l	5	8260B	jw	10/19/99
1,2-Dichlorobenzene	ND	ug/l	5	8260B	jw	10/19/99
1,3-Dichlorobenzene	ND	ug/l	5	8260B	jw	10/19/99

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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Iseli (10/12/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92853830-001	Date Sampled:	10/08/99 12:10
Client ID:	SW1	Date Received:	10/12/99 : 0
Matrix:	Water	Date Reported:	10/19/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
1,4-Dichlorobenzene	ND	ug/l	5	8260B	jw	10/19/99
Dichlorodifluoromethane	ND	ug/l	5	8260B	jw	10/19/99
1,1-Dichloroethane	ND	ug/l	5	8260B	jw	10/19/99
1,2-Dichloroethane	ND	ug/l	1	8260B	jw	10/19/99
1,1-Dichloroethene	ND	ug/l	5	8260B	jw	10/19/99
cis-1,2-Dichloroethene	ND	ug/l	5	8260B	jw	10/19/99
trans-1,2-Dichloroethene	ND	ug/l	5	8260B	jw	10/19/99
1,2-Dichloropropane	ND	ug/l	5	8260B	jw	10/19/99
1,3-Dichloropropane	ND	ug/l	5	8260B	jw	10/19/99
2,2-Dichloropropane	ND	ug/l	5	8260B	jw	10/19/99
1,1-Dichloropropene	ND	ug/l	5	8260B	jw	10/19/99
cis-1,3-Dichloropropene	ND	ug/l	5	8260B	jw	10/19/99
trans-1,3-Dichloropropene	ND	ug/l	5	8260B	jw	10/19/99
Ethylbenzene	ND	ug/l	5	8260B	jw	10/19/99
Hexachlorobutadiene	ND	ug/l	5	8260B	jw	10/19/99
2-Hexanone	ND	ug/l	5	8260B	jw	10/19/99
Iodomethane	ND	ug/l	5	8260B	jw	10/19/99
Isopropylbenzene	ND	ug/l	5	8260B	jw	10/19/99
p-Isopropyltoluene	ND	ug/l	5	8260B	jw	10/19/99
Methylene Chloride	ND	ug/l	5	8260B	jw	10/19/99
4-Methyl-2-Pentanone	ND	ug/l	50	8260B	jw	10/19/99
MTBE	ND	ug/l	5	8260B	jw	10/19/99
Naphthalene	ND	ug/l	5	8260B	jw	10/19/99
n-Propylbenzene	ND	ug/l	5	8260B	jw	10/19/99
Styrene	ND	ug/l	5	8260B	jw	10/19/99
1,1,1,2-Tetrachloroethane	ND	ug/l	5	8260B	jw	10/19/99
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8260B	jw	10/19/99
Tetrachloroethene	ND	ug/l	5	8260B	jw	10/19/99

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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Iseli (10/12/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	A. Williams

Sample Information

Lab ID:	92853830-001	Date Sampled:	10/08/99 12:10
Client ID:	SW1	Date Received:	10/12/99 : 0
Matrix:	Water	Date Reported:	10/19/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Toluene	ND	ug/l	5	8260B	jw	10/19/99
1,2,3-Trichloropropane	ND	ug/l	5	8260B	jw	10/19/99
1,2,3-Trichlorobenzene	ND	ug/l	5	8260B	jw	10/19/99
1,2,4-Trichlorobenzene	ND	ug/l	5	8260B	jw	10/19/99
1,1,1-Trichloroethane	ND	ug/l	5	8260B	jw	10/19/99
1,1,2-Trichloroethane	ND	ug/l	5	8260B	jw	10/19/99
Trichloroethene	ND	ug/l	5	8260B	jw	10/19/99
Trichlorofluoromethane	ND	ug/l	5	8260B	jw	10/19/99
1,2,4-Trimethylbenzene	ND	ug/l	5	8260B	jw	10/19/99
1,3,5-Trimethylbenzene	ND	ug/l	5	8260B	jw	10/19/99
Vinyl Acetate	ND	ug/l	5	8260B	jw	10/19/99
Vinyl Chloride	ND	ug/l	2	8260B	jw	10/19/99
o-Xylene	ND	ug/l	5	8260B	jw	10/19/99
p-m-Xylene	ND	ug/l	5	8260B	jw	10/19/99
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene	89	Percent			jw	10/19/99
Dibromofluoromethane	93	Percent			jw	10/19/99
Toluene-D8	94	Percent			jw	10/19/99

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F I N A L R E P O R T

Client Information

Account:	ALTA Environmental, Inc.	Project Name:	Iseli (10/12/99)
Address:	100 Amston Road	Project Number:	1008-08
	Colchester, CT 06415	Project Manager:	K. Meloy
		Sampler Name:	

Sample Information

Lab ID:	92853830-002	Date Sampled:	/ / :
Client ID:	QC-Report - Water	Date Received:	/ / : 0
Matrix:	Water	Date Reported:	10/19/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
METHOD BLANKS						
Method Blank - Volatile	ND	ug/l		8260B		
MATRIX SPIKE STUDIES - VOLATILES						
Sample ID:	3913-001					
Benzene	103	Percent				
Chlorobenzene	108	Percent				
1,1-Dichloroethene	102	Percent				
Toluene	107	Percent				
Trichloroethene	105	Percent				

METHOD SUMMARIES

Volatile organic analysis is performed using Hewlett Packard 5890 GC's and 5970 and 5972 MSD's when requested. Chromatography incorporates megabore columns. Procedures follow EPA and SW846 guidelines for all analysis.

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. Rev. December 1996.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 18th Edition. 1992.
4. EPA Methods For The Determination of Organic Compounds in Drinking Water.

Project Information		Client Information	
Project Name:	Iseli	Send Reports to:	K. Meloy
Project No.:	1008-08	Company:	ALTA Envi
Project Location:	Terryville CT	Address	100 Amston Rd
Project Manager:	K. Meloy		Colchester CT
Sampler(s):	A. Williams	Phone:	860 537 2582
PO #:		Fax:	
Lab Quote #:		Email:	
Turn-Around:	☒ Standard business days	**Final Report:**	☒ Mail ☒ Email ☐ Fax
Less than 10 days must be approved	☐ Other (specify) ____	☐ EDT Diskette (if check, call for pricing)	
	☐ Approved by: ____	Disk format:	

FILTRATION (0.45 um) & PRESERVATION INFORMATION

Page 1 of 1

FILTRATION	PRESERVATION
☐ DONE	☒ DONE
☒ NOT NEEDED	☐ NOT NEEDED
☐ LAB TO DO*	☐ LAB TO DO*

**Please specify which samples need to be filtered and/or preserved by the lab.*

SPECIAL DETECTION LIMITS

MCP ____

CT ____

NYSTARS ____

OTHER ____

Lab ID (Lab Use Only)	Client/Field Sample ID	Collection Date	Collection Time	Sample Source / Matrix	VOCs by 8260									Sample Remarks (below)	TOTAL # OF BOTTLES
	SW1	10/8/99	1210	water	X										2

Analyses (write test methods above & "x's" below for each sample to be tested)

MATRIX

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
Phone: (800) 362-8749
Fax: (508) 435-2497

NOTES: Please bill Iseli directly

CHAIN-OF-CUSTODY RECORD

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/12/99	[signature]	10/12 1120
		FC	10/12 1129

Condition of Samples Upon Arrival

☐ Okay ☐ Problem(s) ☐ Temp. ____

Distribution of Copies

White - Lab Yellow-Report Pink-Client