REMEDIAL INVESTIGATION REPORT BUELL AUTOMATICS SITE SITE #C828114 INDEX #B8-0576-00-04A 381 BUELL ROAD ROCHESTER, NEW YORK

December 2007 (Revised)

VOLUME 1

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 6274 EAST AVON-LIMA ROAD AVON, NEW YORK 14414

Prepared on Behalf of:

BUELL AUTOMATICS, INC. 381 BUELL ROAD ROCHESTER, NEW YORK

Prepared By:

STANTEC CONSULTING SERVICES INC. 2250 BRIGHTON-HENRIETTA TOWN LINE ROAD ROCHESTER, NEW YORK 14623-2674



December 5, 2007

Mr. Bart Putzig, P.E. New York State Department of Environmental Conservation Division of Environmental Remediation 6274 East Avon-Lima Road Avon, New York 14414

RE: Remedial Investigation Report - Revised Buell Automatics Site Site #C828114, Index #B8-0576-00-04A 381 Buell Road, Rochester, New York 190500033

Dear Bart:

On behalf of Buell Automatics Inc., please find enclosed the Revised Remedial Investigation Report for the Buell Automatics Site located in the Town of Gates, Monroe County, New York. This report is submitted pursuant to the Brownfield Cleanup Agreement (BCA) for the Buell Automatics site that was executed by the New York State Department of Environmental Conservation (Department) on December 22, 2003. All activities conducted as part of this Remedial Investigation were performed in accordance with the Department approved Investigation Work Plan, except where Department approved modifications occurred as noted in this report.

This Revised Report is submitted in response to the Department's October 25, 2007 comments on the August 6, 2007 RI Report. The revisions incorporated in this submittal include revisions to the text, figures and tables presented in Volume 1 of the report and, as noted in the revised text, additions to the Appendices that were presented in Volume 2 of the August submittal. This submittal therefore includes the following:

- Revised Volume 1, presented in a 3-ring binder. Please discard the Volume 1 binder (and its contents) from the August submittal.
- Additions to Volume 2, presented unbound but punched and ready for insertion in the Volume 2 binder from the August submittal. Please insert the enclosed loose pages in the Volume 2 binder from the August submittal as follows:
 - use the enclosed new cover page and spine label to replace those on the outside of the Volume 2 binder;
 - o insert the two-page addition to Appendix C at the end of Appendix C; and
 - o add new Appendices K, L, and M at the back of Volume 2.

December 5, 2007 Mr. Bart Putzig, P.E. Page 2

Should you have any questions, please contact me.

Sincerely,

Michael P. Storonsky Managing Senior Associate Peter H. Smith Senior Hydrogeologist

Thomas D. Wells Senior Geologist

Enclosure

c: Frank Sowers, P.E. (NYSDEC – Avon)
Joseph Albert (MCDOH – Rochester)
Debby McNaughton (NYSDOH – Rochester)
Richard Lawton (Buell)
Jerry Greenfield, Esq. (Chamberlain, D'Amanda, Oppenheimer and Greenfield)
File

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Executive Summary

On behalf of Buell Automatics, Inc. (Buell), Stantec Consulting Services Inc. (Stantec) has performed a Remedial Investigation (RI) on the Buell Site (Site) located at 381 Buell Road in the Town of Gates, NY (Figure 1). This RI was completed pursuant to Buell's Brownfield Cleanup Agreement (BCA) for the Site (Index #B8-0576-00-04A) that was executed by the New York State Department of Environmental Conservation (Department) on December 22, 2003, and a preceding Voluntary Cleanup Agreement (VCA) executed on February 22, 2002.

Soil Contamination

Results of the RI indicate that there are three source areas of subsurface contamination at the Site. The three areas are located under or adjacent to the western half of the older (southern) section of the facility manufacturing building.

■ Former Trench Drain Area - This area is located inside the southwest portion of the building in the area of a former trench drain. Interior borings completed in the vicinity of the former trench drain revealed elevated concentrations of the chlorinated volatile organic compound (VOC) trichloroethene (TCE) and related chlorinated VOCs in soil. Based on these findings, 123.4 tons of grossly-impacted soil and associated concrete were removed from a 20 ft. by 25 ft. by 6- to 7- ft. deep excavation inside the building and disposed off-site as part of an Interim Remedial Measure (IRM) performed in December 2003-January 2004.

Structural considerations prevented the removal of additional soil; however, the RI data indicate that the extent of significant remaining soil contamination is relatively minor. The RI data indicates that the most highly contaminated material was removed and that the contaminated soil that remains in place is found primarily on the south and east sides of the IRM area. Significant contamination was not detected in floor, sidewall, or boring samples collected in and around the north half of the excavation. In the south half of the excavated area, contaminated soil extends 2 to 3 feet below the bottom of the excavation backfill (from 7 to 10 feet below grade). Along the south and southeast walls of the excavation, contaminated soil was left in place where it was inaccessible beneath foundation grade beams; however, RI data indicates that significant levels of contamination do not extend laterally more than a few feet beyond the excavation limits. Borings located 3 to 5 feet to the south of the excavation limits did not encounter significant contamination. At borings located 2 to 5 feet from the east and west sides of the southern end of the IRM area, relatively low levels of contamination are present in soil in the interval from 5 to 6.5 feet below grade. Relatively low concentrations of contaminants were also detected in the interval from 6 to 8 feet below grade at a boring located approximately 20 feet to the east of the southeast corner of the excavated area.

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Indications of petroleum impacts, including observations of staining or sheen in the samples, the presence of ethylbenzene, toluene, and xylene, and relatively high levels of tentatively-identified non-target VOCs and SVOCs (TICs), were noted in boring and sidewall and bottom samples from along the south wall and on the west side of the IRM area. These indications correlate fairly strongly with levels of chlorinated VOCs. It is suspected that the presence of petroleum constituents in the IRM area is a consequence of past releases from the Former Trench Drain Area rather than an overlap of impacts from the Petroleum Impacts Area (see below) located to the northeast of the IRM area.

• Former Loading Dock Area - This area is located outside the former loading dock area on the west side of the facility. This source area is estimated to cover an area of approximately 45 ft. by 65 ft. and extends approximately 8 feet deep. Contaminants in this area include TCE and related chlorinated VOCs. The most highly contaminated soil is found in the top 2 feet of soil in the center of the area. Impacted soil extends less than 20 feet off-site to the west onto the adjacent Five Star Tool Co. (Five Star Tool) parcel at 383 Buell Road.

In the southeast part of the Former Loading Dock Area, the area of chlorinated VOC impacts is overlapped by an adjacent area of impacts from release of petroleum. As described below, an oily product was observed at the water table in monitoring well MW-10, which is located in the area of overlap.

Petroleum Impacts Area – This area is located under the manufacturing building northeast of the Former Trench Drain Area and east of the Former Loading Dock Area. Low levels of petroleum-related VOCs and higher concentrations of tentatively-identified compound (TIC) VOCs are present. The contamination in this area is believed to have originated from petroleum solvent use. Cutting oil, as evidenced by the presence of total petroleum hydrocarbons (TPH) and tentatively identified semi-volatile organic compounds (SVOCs) and observations of petroleum sheen or, at a few locations, thin horizons of oil-saturated soil, is also present in this area of the facility. An oily light non-aqueous phase liquid (LNAPL) layer was detected at the water table in the groundwater monitoring well (MW-10) located immediately downgradient of this area, but is not present at other Site wells. TCE contamination of soil was detected at a relatively low level at one location (B-19) in the petroleum impacts area.

No other areas or types of soil contamination were identified at the Site. No PCB, pesticide or metal impacts were observed in soil or groundwater. With the exception of SVOCs in soil at B-8, which were removed as part of an Interim Remedial Measure (IRM), no other noteworthy target SVOCs were noted during the RI.

Groundwater Contamination

To investigate the extent of chlorinated VOC impacts in groundwater from the Former Trench Drain and Former Loading Dock areas, a series of monitoring wells were completed to evaluate soil and groundwater downgradient from the site. The RI data indicates that the extent of

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petroleum and oil impacts is restricted to the Site. However, groundwater impacts from the chlorinated VOC contamination at the Site extend off-Site approximately 120 to 200 feet to the southwest.

South of the Former Trench Drain Area, chlorinated VOCs that exceed groundwater standards extend downgradient onto the adjacent 385 Buell Road property (former All-Around Travel). Buell is in the process of acquiring title to this property. West of the Former Loading Dock Area, low-level chlorinated VOC impacts were found to extend from the former loading dock source area onto the 383 Buell Road property. A limit to the extent of downgradient impacts was established by the absence of impacts in groundwater observed at monitoring well MW-17, which is located on the 1166 Brooks Avenue property.

Sub-Slab Soil Vapor Surveys

A building survey of the former All-Around Travel building, located south of the subject property at 385 Buell Road, was completed under the VCA work plan. As a result of a leaking underground fuel oil storage tank beneath the building, this structure has been vacant since March 2003 and indoor and sub-slab air sampling was deferred pending re-occupation of the building. Following completion of their on-going acquisition of the 385 Buell Road property, Buell intends to raze this building and replace it with an asphalt parking surface. Assuming this scenario occurs, it is understood that the sub-slab soil vapor and indoor air sampling program will not be needed.

Three additional building surveys, including indoor and sub-slab air sampling, were conducted in adjacent and/or downgradient structures:

- Comfort Inn, 395 Buell Road, where no further action was required by Buell but a separate BCA was executed by the owners of that property to address separate tetrachloroethene (PCE) impacts.
- Five Star Tool, 383 Buell Road, where Site-related chlorinated VOCs were reported beneath the slab and one compound was reported at a trace concentration within the building. The RI results indicate that vapor intrusion is not currently causing an adverse impact on conditions in the Five Star Tool building. However, the concentration of TCE detected in the sub-slab sample is above the NYSDOH guidance value that suggests the need for mitigation to protect against potential vapor intrusion.
- Marketing Squad Inc., 1166 Brooks Avenue, where no Site related impacts were reported. Low level PCE impacts were reported on the west side of the building (the far side of the building away from the Buell Site); these appear to be unrelated to the Buell Automatics Site.

Conclusions

The findings of the RI indicate that soil impacts exceeding applicable standards are present on Site, site-related groundwater impacts exceeding applicable standards are present on and

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downgradient of the Site, and Site-related soil-vapor impacts are present off-Site on the adjacent Five Star Tool property located at 383 Buell Rd. Remedial measures are needed to address the identified Site-related impacts.

An Alternatives Analysis Report will be prepared to evaluate remedial alternatives for addressing the Site-related impacts. The AA Report will take into account the current industrial use and zoning of the Site, the proposed continued industrial use of the Site, current industrial and commercial uses and future uses in the surrounding area, the pending acquisition of the adjacent downgradient property (385 Buell Road), and the presence of other unrelated off-Site soil and groundwater impacts that exist in the area.

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1.0 Introduction

On behalf of Buell Automatics, Inc. (Buell), a Remedial Investigation (RI) was performed by Stantec Consulting Services Inc. (Stantec), formerly The Sear-Brown Group, Inc. (Sear-Brown) on the Buell Site (Site), located at 381 Buell Road in the Town of Gates, Monroe County, NY (Figure 1). This RI was completed pursuant to Buell's Brownfield Cleanup Agreement (BCA) for the Site (Index #B8-0576-00-04A and Site Number V00330-8) that was executed by the New York State Department of Environmental Conservation (Department) on December 22, 2003. A significant portion of the RI investigation tasks were completed between March 2002 and December 2003 under a preceding Voluntary Cleanup Agreement (VCA) executed by the Department on February 22, 2002 (Index #B8-0576-00-04).

Field investigation activities were completed in September 2006. All activities conducted as part of the RI were performed in accordance with the September 2001 Voluntary Investigation Work Plan, the November 2003 Interim Remedial Measure Work Plan and the May 2005 Remedial Investigation Work Plan Addendum (collectively the Work Plan), except where Department approved modifications occurred as noted in this report. Descriptions of Site activities, including supporting figures and data tables, were routinely submitted throughout the project in monthly, bi-monthly or quarterly VCA and BCA progress reports.

1.1 PROJECT OBJECTIVES

As specified in the Department-approved public fact sheet, the Buell RI was designed to accomplish the following objectives:

- Evaluate surface drainage features and underground utilities to determine if they may have contributed to contaminant migration;
- Test subsurface soils on-Site and off-Site;
- Install and sample groundwater monitoring wells on-Site and off-Site to determine the extent of groundwater contamination; and
- Evaluate the potential for people to come in contact with chemicals from the Site.

1.2 SCOPE OF WORK

The following scope of work was completed pursuant to the Work Plan under the VCA from March 2002 to December 2003:

- Compilation and evaluation of utility record maps;
- Assessment of pre-existing monitoring wells MW-1, MW-2 and MW-5 installed by others;

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- Completion of new on-Site and off-Site monitoring wells MW-2D, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15;
- Completion of Geoprobe borings B-8 through B-34, and GP-1 through GP-10;
- Monitoring well elevation surveys;
- Well development and groundwater sampling from all new and existing wells; and
- Hydraulic conductivity testing.

Following transfer of the Site into the BCA program, the following work was completed from December 2003 to September 2006:

- Implementation of an Interim Remedial Measure (IRM) involving removal of significantly impacted soils from the former trench drain area (B-8 and B-26) beneath the southwest portion of the building;
- Submittal of a Remedial Investigation Work Plan Addendum;
- Indoor air and sub-slab soil vapor sampling at the Comfort Inn (395 Buell Road);
- Indoor air and sub-slab soil vapor sampling at Five Star Tool (383 Buell Road);
- Completion of Geoprobe borings B-35 through B-44 in the vicinity of B-23 to the west of the Buell building;
- Completion of on-Site and off-Site monitoring wells MW-16, MW-17 and MW-18;
- Indoor air and sub-slab soil vapor sampling at 1166 Brooks Avenue;
- Groundwater sampling of new and existing wells;
- A complete round of water levels; and
- An elevation survey of new wells.

1.3 MODIFICATIONS TO THE WORK PLAN

The following modifications to the Work Plan were requested and approved by the Department.

July 2002

In response to the proximity of proposed boring locations to utilities and/or the trichloroethene (TCE) findings in MW-8, the relocation of proposed wells MW-6, MW-9 and MW-11 was requested and approved by the Department.

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MW-9 was relocated approximately 15 ft. to the north in order to avoid existing utilities. Given the anomalous conditions present in MW-8, the possible catch basin to its west, and various utilities located within the right-of-way between 381 and 385 Buell Road which limited the originally proposed well placements, MW-6 and MW-11 were moved to areas south and west of MW-8. These changes were implemented after obtaining permission from Mr. Webb, the owner of the 385 Buell Road property, to install MW-6 and MW-11 on his adjacent property. The new locations were 75± ft. southwest of MW-8 for MW-11 and 100 ft. west of MW-8 for MW-6. These locations were selected to provide further definition of the apparent low water level that existed at MW-8 and also to provide further delineation of the extent of the volatile organic compounds noted in the split spoon soil samples collected 14-20 ft. below ground surface (bgs) at MW-8.

September 2002

Due to the preliminary findings from interior Geoprobe borings, it was requested in September 2002 that the September groundwater sampling program be modified to delete the monitored natural attenuation (MNA) parameters from the analytical program. These changes were approved by the Department. In addition, the Department allowed the use of low flow techniques for collection of Target Analyte List (TAL) metals in groundwater.

November 2002

In November 2002, it was proposed to delay the schedule for conducting the indoor air sampling program at 385 Buell Road, former All-Around Travel, until Mr. Lawton took title to the property. A purchase offer for this parcel had previously been accepted by the Owner. In addition, based upon results collected to date, it was proposed that the analytical parameter list for future groundwater sampling, including MW-11, be reduced to volatile organic compounds (VOCs) only.

December 2002

A technical meeting was held at the Department's Region 8 office in Avon, NY on December 20, 2002. The purpose of the meeting was to review the current status of the project; discuss indoor air assessment options for 385 Buell Road; and discuss the options for moving the project forward to the next phase.

Given Mr. Lawton's proposed acquisition of 385 Buell Road and its continued occupancy, the discussion of indoor air sampling included two options: indoor ambient air and sub-slab soil gas. Mr. Crua, New York State Department of Health (NYSDOH), noted that if indoor ambient air sampling was implemented, this program would need to be conducted quarterly for one year and periodically thereafter to verify that indoor air quality conditions were not changing. Conversely, it was noted that if clean results were attained during sub-slab monitoring, and if the slab were not penetrated or disturbed for any reason in the future, additional air sampling would not be required.

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Due to the construction of the building in two parts, one (1) soil gas sample from each area would be needed. The sampling methodology would include Summa canisters or other approved methods capable of attaining low-level detection limits. Specific sampling guidance and risk-based standards were to be forwarded to Stantec from NYSDOH via Frank Sowers (Department). A general review of sub-slab remedial options was also presented.

The discussion of the future direction of the project and changes to the Work Plan included potential elimination of the second round of groundwater sampling called for in the Work Plan; downgradient plume delineation with two new wells on the Five Star Tool property (383 Buell Road); further definition of the source areas within the Buell building near the tanks and former trench drain with shallow small-diameter soil borings; and discussion of potential interim remedial measures (IRMs). Given the elevated contaminant levels in the former trench drain source area beneath the Buell building, the Department suggested that a source area IRM be considered.

Based upon the technical meeting, the following changes to the Work Plan were presented for consideration and approved by the Department:

- Eliminate the second round of groundwater sampling; and
- Relax the monthly Progress Report requirement to a bi-monthly schedule.

February 2003

The occupants of the All-Around Travel office located at 385 Buell Road were scheduled to vacate the premises in early to mid-March 2003. Given this change in occupancy, it was proposed that air sampling of the 385 Buell Road building not be performed. If the building at 385 Buell Road were to be leased in the future to new tenants, the Revised Adjacent Building Survey Work Plan would be implemented at that time. In addition to modifications to the Adjacent Building Survey Work Plan, the installation of two additional off-site monitoring wells downgradient from MW-10 was presented to the Department and approved contingent on obtaining access from the adjacent property owner, Five Star Tool (383 Buell Road).

A February 21, 2003 Supplemental Work Plan, which proposed installation of wells MW-14 and MW-15, downgradient from MW-10, was approved by the Department.

May 2003

A letter from the Department dated May 27, 2003 requested additional off-site groundwater characterization and an indoor air quality assessment of the Comfort Inn (395 Buell Road). The Department's letter requested that a work plan addendum for the additional off-site investigations be submitted by June 30, 2003.

July 2003

A meeting was held at the DEC Region 8 office in Avon on July 8, 2003 with representatives of Buell, the Department and the NYSDOH. During the meeting, it was agreed that a sub-slab soil

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gas sampling program would be performed at the Comfort Inn, located at 395 Buell Road and that a Work Plan should be submitted to Department, NYSDOH, and Monroe County Department of Health (MCDOH) for review and approval prior to proceeding. As a follow-up, a conference call occurred on July 15, 2003 with Mr. Frank Sowers (Department), Mr. Joe Crua (NYSDOH) and Messrs. Peter Smith and Mike Storonsky of Stantec to discuss the preparation of the Work Plan for Sub-Slab Soil Gas Sampling at 395 Buell Road. During that call, it was agreed that the sub-slab soil gas-sampling program could initially be limited to 395 Buell Rd. Mr. Crua indicated he would forward a procedural example of a sub-slab soil gas investigation program for use by Stantec. As discussed with Mr. Sowers, preparation of the Work Plan for the Sub-Slab Soil Gas Sampling Program was temporarily put on hold awaiting receipt of the referenced document.

In order to facilitate preparation of the Remedial Investigation Work Plan Addendum, and the associated additional investigation of the Site, Mr. Paul Sylvestri, environmental counsel for the owner of the Former All Around Travel property at 385 Buell Road, was contacted. Stantec contacted Mr. Sylvestri to gain access to two (2) groundwater monitoring wells that were installed on behalf of the owners of the 385 Buell Road property to evaluate petroleum impacts from a leaking underground fuel oil storage tank. The two wells were situated in close proximity to the property boundary with the Comfort Inn, 395 Buell Road, and its basement utility room, which would be sampled as part of Stantec's Sub-Slab Soil Gas Survey. Mr. Sylvestri requested an access agreement prior to allowing the wells to be sampled. This access agreement was subsequently executed.

November 2003

During a November 4, 2003 telephone conversation with Mr. Sowers, the scope of the sump water sampling program at the Comfort Inn was reduced from Analytical Service Protocols (ASP) to EPA Method 8260.

On November 17, 2003 Stantec notified the Department of Buell's intention to transfer this project into the new Brownfield Cleanup Program. A letter was issued to the Department dated November 19, 2003 formally requesting the transfer.

December 2003-January 2004

On December 10, 2003 Buell signed the BCA and forwarded it to the Department for counter signature. On December 22, 2003, the Department countersigned the BCA.

The December 2003 Revised IRM Work Plan (IRMWP) was approved by the Department on December 19, 2003. The IRM was performed during a two week period in late December 2003 and early January 2004 to address the TCE source area in the vicinity of the former interior trench drain. Unanticipated field conditions resulted in the following modifications to the Revised IRMWP. The Department was notified of each of the following modifications prior to proceeding:

- 1. The proposed retaining wall for excavation support was not installed. A secondary concrete pad and asphalt were encountered at the western limits and in the northern portion of the proposed excavation area. Additionally, eastern and southern footer walls appeared to extend to depths greater than 5 feet. As a result, the approach to the excavation process was modified. The southern portion of the proposed excavation area was dug to safe removal limits, sampled and backfilled prior to investigation and potential removal of the northern secondary concrete slab and underlying soil.
- 2. Since trenching for construction of a concrete retaining wall was not conducted, confirmatory sidewall samples (Figure 5) were collected during the course of the excavation activities instead. Additional sidewall and bottom samples were taken as deemed necessary to appropriately characterize shallow and deep soil conditions based on contaminant impacts observed in the field.
- 3. Impacted soil transportation methods from the excavation area to roll-offs on the west side of the Site were re-evaluated by Stantec and the Department due to practicality and equipment tracking issues. The Department approved the removal of the poly sheeting, filter fabric, and plywood lined pathway; contingent on scraping the asphalt area of residual ice/snow accumulation and monitoring and maintaining the pathway throughout the duration of the IRM soil/concrete removal activities.
- 4. Due to the presence of the secondary concrete slab at the northern portion of the proposed IRM excavation area, Geoprobe soil borings GP-1 through GP-4 were conducted and samples selected for expedited analytical turnaround to evaluate the underlying soils (Figure 5).
- 5. The northern and northeastern extents of the proposed IRM excavation area were sloped slightly towards the center of the IRM excavation area based on field observations and preliminary soil sample laboratory analytical results from soil borings conducted on 12/24/03.
- 6. Additional soil was removed beyond the southwest limits of the proposed IRM excavation area as requested by the Department.
- 7. Two, six-inch diameter stainless steel wells were installed in the excavation area for use as potential recovery wells or as future avenues for treatment or deeper borings. Locations of the wells (Figure 5) were selected by the Department.
- 8. Additional Geoprobe borings GP-5 through GP-10 (Figure 5) were conducted within the southern portion of excavated area on 12/31/03 to evaluate the vertical extent of impacts below the excavated depth. Eleven (11) soil samples were submitted for laboratory analysis.
- 9. Rusmar was substituted for Biosolve for mitigation of volatile organic vapors due to its better applicability in treating vapors from chlorinated VOCs.
- 10. Construction water management was not required due to a lack of appreciable free-product or water accumulating in the excavation during the course of the IRM activities.

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

The December 31, 2003 Work Plan for Sub-Slab Soil Gas Survey, Comfort Inn, 395 Buell Road was approved by the Department on January 15, 2004.

March 2004

A Citizen Participation Plan (CPP) was forwarded to the Department and the other involved agencies on March 12, 2004. Following the Department's review and approval of the document, a copy of the CPP was forwarded to Ms. Judy MacKnight at the Gates Public Library on March 18, 2004 in order to establish a public repository for project documents.

April 2004

Given the number of activities that had been completed over the previous four months, including conversion of the project to the Brownfield Cleanup Program; preparation of the IRM Work Plan; completion of the IRM; preparation of the IRM Field Engineering Report; preparation of the Comfort Inn Sub-Slab Soil Gas Survey Work Plan; completion of the Comfort Inn soil gas survey; preparation of the Comfort Inn Sub-Slab Soil Gas Survey Report; and preparation of the Citizen Participation Plan, Buell requested that the Department provide a time extension. Following completion of the sampling of monitoring wells MW-3 and MW-4 (All Around Travel, 385 Buell Road), receipt of the resultant laboratory data, and forwarding of that data to the Department, Buell was granted a six month delay to allow them to catch up with their accrued expenses. To that end, it was proposed that sampling of monitoring wells MW-3 and MW-4 on the 385 Buell Road property would occur in May after an access agreement was executed. Following receipt and compilation of the laboratory data in June, it was proposed that the results be submitted to the Department in July as part of a three-month progress report. At that time, Buell would then obtain a hiatus until the end of 2004 before they would be required to submit the Remedial Investigation Work Plan Addendum. Following approval, the necessary additional investigation activities would be initiated.

May 2005

A Remedial Investigation Work Plan Addendum (Addendum) was submitted to the Department on May 12, 2005. The scope contained in the Addendum was approved on July 23, 2005. In addition to the various field activities, provisions for progress reports were reduced from monthly to quarterly following resumption of the field program, with data to be submitted to the department as soon as they became available.

December 2005

On December 13, 2005, Mr. Frank Sowers (Department) granted permission to defer slug testing and the well elevation survey on newly installed wells until the Spring 2006 groundwater-sampling event.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

Buell operates its facility and employs approximately 60 individuals to manufacture automatic screw machines and machined parts. Prior to the 1950s, the Site was reportedly used for agriculture. The Site building was originally constructed in 1957 on a 0.67-acre parcel. Additions to the structure were completed in 1981 and 1983. A second parcel was acquired (which was a portion of a former bowling alley property to the north) and a 12,000 square foot building addition was completed in 2000.

A Site Plan is presented as Figure 2. Buell and all surrounding properties are zoned General Industrial. The current Site is identified as tax parcel # 135.05-1-36.1 and consists of 1.985 acres with an approximate total building area of 25,000 square feet located within an industrial and commercial area. Buell expects to increase its land holdings once it completes the ongoing acquisition of the adjacent former All-Around Travel property located to the south of the Site at 385 Buell Road.

A revised metes and bounds description for the Site which excludes the footprint of the 2000 building addition is presented in Appendix A. The outline of the area proposed for removal from the Site is shown on Figure 2. With the 2000 building addition excluded from the definition of the Site, the Site will comprise 1.67 acres with a building footprint of approximately 13,000 square feet. In its June 23, 2005 approval of the May 2005 RI Work Plan Addendum, the Department indicated that its approval of the removal of the building addition from the Site definition would be granted pending receipt of a metes and bounds description that shows the area to be excluded. The revised metes and bounds description presented in Appendix A is hereby submitted for the Department's approval to satisfy that requirement.

2.2 PREVIOUS INVESTIGATIONS

Previous investigations that were completed at the Buell Site, prior to implementation of the VCA, included the following:

- Soil Gas Investigation (February 1989)
- Solvent Tank Removal and Excavation of Trench Documentation (June 1989)
- Phase I ESA Report Airport Lanes property (January 1998)
- Phase I ESA Report Buell Automatics property (January 1998)
- Phase II ESA Report (July 1999)
- Phase II Confirmation Testing (September 1999)

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2.2.1 Soil Gas Investigation - February 1989

As a result of an August 1988 Phase I ESA performed by Lozier Architects/Engineers (Lozier), a soil gas survey was performed in the vicinity of stained soils observed in the driveway area at the south side of the existing building. Based on the information obtained from the survey, it was determined that VOCs were present in the soil along the base of an outside building wall. Lozier concluded that further remediation would be required and that the two solvent above ground storage tanks (ASTs) located in this area would need to be relocated to facilitate excavation of soil along with the soil in the trench area. A copy of the Soil Gas Investigation Report was presented as an Appendix to the September 2001 Voluntary Investigation Work Plan.

2.2.2 Solvent Tank Removal and Excavation of Trench Documentation (June 1989)

According to information provided to Stantec, Madalena Construction Corp. removed two solvent ASTs from the south side of the facility in the spring of 1989. Marcor of New York, Inc. (Marcor) subsequently excavated soil from an adjacent trench (approximately 3 ft. x 3 ft. x 75 ft). Analysis of a soil sample taken on June 6, 1989, indicated that the material was not hazardous and it was disposed in a sanitary landfill. A copy of the Solvent Tank Removal and Excavation of Trench documentation was presented as an Appendix to the September 2001 Voluntary Investigation Work Plan.

2.2.3 Phase I ESA Report – Airport Lanes (January 1998)

As a routine step in the process of obtaining financing for a building expansion, NFCS, Inc. (NFCS) completed a Phase I ESA of the proposed expansion site (Airport Lanes, adjacent property to north of Buell) on behalf of Marine Midland Bank. Based on the information reviewed, NFCS indicated that further investigation was not warranted. A copy of the Phase I ESA Report was presented as an attachment to Stantec's October 24, 2000 letter to the Department.

2.2.4 Phase I ESA Report – Buell Automatics (January 1998)

As a routine step in the process of obtaining financing for a building expansion, NFCS completed a Phase I ESA of the Buell Site on behalf of Marine Midland Bank. Based on the information reviewed, NFCS recommended further investigation. A copy of the Phase I ESA Report was presented as an Appendix to the September 2001 Voluntary Investigation Work Plan.

2.2.5 Phase II ESA Report (July 1999)

As a result of the NFCS Phase I ESA, C and O Technologies, Inc. (C&O) performed a Phase II ESA on behalf of HSBC Bank USA (formerly Marine Midland Bank), which involved the installation of seven soil borings (B-1 through B-7) and five groundwater-monitoring wells (MW-1 through MW-5) as shown on Figure 4.

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Soil samples collected from 3 to 9 feet below ground surface during the installation of MW-3 (north side of the building in the vicinity of cutting oil tanks) were noted to have petroleum odors and staining. In addition a slight petroleum odor was noted from the samples collected from 3 to 5 feet below ground surface during the completion of soil borings B-2, B-3, and B-4. A composite soil sample analyzed from MW-3 did not show detectable levels of VOCs, however several SVOCs were detected at slightly elevated concentrations. TCE and several breakdown compounds were detected in groundwater samples analyzed from MW-2 along the south side of the building. C&O concluded that soil and groundwater sampling in the former solvent tank area and trench area exceeded the Department's guidance values and standards. C&O also concluded that groundwater was migrating to the southwest in the vicinity of MW-2. Given the proximity of the property line, they noted the potential existed for off-site TCE migration to the southwest and recommended further evaluation. A copy of the Phase II ESA Report was presented as an Appendix to the September 2001 Voluntary Investigation Work Plan.

2.2.6 Phase II Confirmation Testing (September 1999)

Groundwater was sampled by Stantec on August 10, 1999 from existing well MW-2 and three temporary wells, GP-1, GP-2, and GP-3 along the southern property line. The results from analysis of groundwater at MW-2 confirmed that chlorinated volatile organics were present at concentrations above groundwater standards. The distribution of constituents suggested that the material had been present for some length of time, due to the presence of the breakdown (daughter) products of TCE. These daughter products included 1,1-dichloroethene, trans 1,2-dichloroethene, 1,1-dichloroethane and vinyl chloride.

Results from analyses of groundwater from the temporary wells showed that chlorinated organics were below detection limits at the most easterly well GP-3, while TCE was present above the Department's groundwater standard at wells GP-1 and GP-2 to the southwest and south, respectively. It was notable that the breakdown products of TCE were largely absent in groundwater from wells GP-1 and GP-2. The presence of tetrachloroethene (PCE) in the sample from GP-2 appeared anomalous, since it had not been detected at nearby well MW-2 or elsewhere on the site. Therefore, its presence at GP-2 was suspected to indicate an analytical error or a separate source area. Given the southwesterly groundwater gradient identified by C&O, the TCE present at the locations of GP-1 and GP-2 appeared to represent migration from the suspected source area previously located near well MW-2.

As a result of the findings, it was recommended that the extent to which the source area (drainage trench) was removed in 1989 be further investigated. It was also recommended that a series of soil borings be conducted under and around the former tank and drainage trench.

The presence of significant degradation byproducts of TCE in groundwater at well MW-2 indicated that natural dechlorination was occurring. Therefore, it was recommended that additional testing at well MW-2 be conducted for parameters identified in the Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water (EPA/600/R-98/128, September 1998).

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Since TCE was detected above the Department's groundwater standard at wells GP-1 and GP-2, the need for potential additional evaluation at the southern property boundary, and/or further downgradient (offsite) was also identified. A copy of the Phase II Confirmation Testing Report was presented as an Appendix to the September 2001 Voluntary Investigation Work Plan.

2.2.7 Additional Information

Buell indicated that no soil removal activities occurred during the conversion of the cutting oil storage tanks from outdoor tanks to enclosed tanks with secondary containment. However, during construction of the building addition, approximately 1,800 cubic yards of soil was removed from the site for general Site earthwork balancing purposes. Based on information provided by the trucking contractor, RVA Trucking, there were no indications of impacts to the soil that was removed.

3.0 FIELD PROGRAM

The various elements of the RI field program were completed between March 2002 and September 2006. In accordance with the VCA Work Plan and the subsequent BCA Work Plan Addendum, documentation of the field efforts and resultant lab data was presented in periodic VCA and BCA progress reports.

3.1 UTILITY RIGHT-OF-WAY (ROW) INVESTIGATION

The utility ROW investigation included a compilation and review of utility drawings; a boundary and topographic survey; and assessment of existing monitoring wells.

3.1.1 Compilation and Review of Available Documents

Acquisition of utility mapping for the utility right-of-way (ROW) investigation was undertaken to assist in evaluating the potential for buried utilities to provide preferential pathways for contaminant migration. This involved the compilation and review of available design/construction documents (i.e., record maps and drawings) for the utilities at the property and in the surrounding ROWs. It focused on the relationship between known utility inverts and the depth to the water table beneath the Site.

The list of record maps that were obtained included the following:

- Gates-Chili-Ogden Sewer District. Sanitary sewer as-built for Buell Road, Buell Road Outlet Sewer and Brooks Avenue/Cross-Lot Sewer North From Brooks. 3/18/58.
- Costich Engineering. Sanitary sewer as-built for Liberty Tool and Die, 350 Buell Road. 11/5/95.
- Town of Gates. Storm sewers for Buell Road, Plan Profile and Tables, Sheet 5 of 6 and Sheet 6 of 6. 1966.
- Sear-Brown, PC. Sanitary sewer as-built for National Car Rental, DWG. No. 2600Z-04. 12/2/85.
- Sear-Brown. As built for Site, Utility and Grading Plan SE-2, Buell Automatics. 5/4/98.
- Passero Associates. Re-Subdivision of 351, 381 and 383 Buell Road. 2/24/98.
- Monroe County Water Authority. Water Service for Buell Road and Surrounding Area, Plate No.'s 190 and 210. Revised 2/9/00.
- Day Engineering. Potential Spillage Flow Diagram, SPCC Plan, Buell Automatics. 10/23/89.

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In April 2002, a meeting and Site walkover with agency representatives was completed in order to review the potential influence of utilities and their associated bedding on groundwater flow direction and modify proposed drilling locations, as needed. The site walkover occurred on Tuesday, April 30, 2002 with Mr. Frank Sowers of the Department, Mr. Joe Albert of MCDOH, Mr. Steve DiLaura of Nothnagle Drilling, Messrs. Richard Lawton and Donald Corwin of Buell, and Messrs. Mike Storonsky and Peter Smith of Stantec.

As noted during the Site meeting and walkover, a Monroe County Pure Waters Sanitary Sewer largely encircles the project area and discharges to the east at a location in front of the Site along Buell Road. The invert elevation for that sewer indicates a drop of approximately 12-13 feet before crossing under Buell Road. Given its depth, this utility was identified as having the potential to influence groundwater flow direction on the east side of the Site. A portion of that sanitary sewer drawing is included as Appendix B.

Storm sewer record mapping for catch basins on private property to the south and west of Buell were not available. However, storm sewer outfalls that are shown on record maps along Brooks Avenue are in approximate alignment with the observed privately owned catch basins on properties generally located between the Site and Brooks Avenue. Given the absence of catch basis on the Site, and the shallow depth (~ 2-3 feet) of the catch basins on the adjacent properties, the storm sewers were not expected to influence local groundwater flow direction.

Gas and water services for Five Star Tool, 383 Buell Road, were relocated several years ago, from the north side of the Buell building to the south side into the right-of-way between 381 and 385 Buell Road, during the Buell building expansion. Rochester Gas and Electric Corporation would not release record maps identifying specific depths or locations of the installed gas services to 381, 383 and 385 Buell Road. Water service record mapping for private properties is not kept by Monroe County Water Authority (MCWA). As a result, the depths to the water and gas services in the right of way are not certain. However, gas services are typically installed 2-3 feet below ground surface (bgs) and were not expected to influence local groundwater flow direction.

A drawing containing design details, which was located after the site walkover, indicated the proposed water line for 383 Buell Road was to be installed at least 6 ft. bgs in areas of pavement. In addition, a supplemental 6-inch diameter water pipe was installed within the right of way and capped at both ends to accommodate future building expansion, if needed. Given that the depth to groundwater was historically reported at approximately 4 ft. bgs, it was considered possible that the bedding around the water service and the supplemental pipe leading to 383 Buell Road could act as a preferential pathway during higher water table conditions.

As requested during the Site walkover, a utility stakeout was called in for the Site and the adjoining southerly property. As discussed during the Site walkover, the locations of wells MW-6, MW-9 and MW-11, which were proposed in the right of way, were revised as needed to avoid impacting the underground gas and electric lines and overhead electric utility lines.

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3.1.2 Boundary and Topographic Surveys

Property boundary and topographic surveys of the subject property were completed by Passero Associates. This mapping has been used as the base map for this investigation.

In discussions with the Department regarding approval of the Work Plan Addendum, it was agreed that the property containing Buell's 12,000 sq. ft. building addition, which was completed in 2000, would be removed from the BCA given that Buell did not want to penetrate the new floor with investigation activities. As described above in Section 2.1, it was agreed that a metes and bounds survey of this area would be provided in the Remedial Investigation Report to define the property that was covered by the BCA. A copy of the Passero boundary and topographic survey is included in Appendix A.

Monitoring Well Surveys

A licensed Stantec survey crew surveyed vertical elevations for new and existing wells on various dates throughout the project including May 31, 2002; August 29, 2002; January 13, 2004 and May 3, 2006. The horizontal datum is NAD 27 and the vertical datum is NGVD 29, both taken from existing mapping by Passero, and corresponding well location coordinates and elevation data are summarized on Table 3. (Table 3 also presents locations and elevations referenced to the NAVD 88 datum and NAD 83 UTM Zone 18 (NYTM) coordinate system.) Monitoring well locations are shown on Figure 3.

3.1.3 Assessment of Existing Monitoring Wells

Pre-existing monitoring wells MW-1, MW-2 and MW-5 installed during a July 1999 Phase II ESA were inspected and found to be in good working order. MW-1 is located in the lawn at the front of the property and MW-2 and MW-5 are situated in the driveway between 381 and 385 Buell Road. MW-3 and MW-4 had been previously abandoned during construction of the Buell building expansion.

3.2 SOIL BORING AND MONITORING WELL INSTALLATIONS

Several rounds of soil boring and monitoring well installations were completed throughout the project. Drilling methods included Geoprobe, hollow stem auger and wet rotary bedrock borings. Drilling locations included interior, exterior and off-Site locations. Drilling and well installations procedures followed the 2001 Voluntary Investigation Work Plan, except where noted.

3.2.1 Well Installations – May 2002

The first round of monitoring well installations was completed from May 20 to May 22, 2002 and included auger drilling, soil sampling and well construction at four locations (MW-7, MW-8, MW-12 and MW-13). Monitoring well installations were performed by Nothnagle Drilling, Scottsville, NY. These monitoring well locations are presented on Figure 3.

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Soil conditions at individual boring locations were variable. Individual boring logs are presented in Appendix C. The first water-bearing interval consisted primarily of brown, saturated silty fine sand. This fine sand sequence was occasionally interbedded with denser, varved silt seams and ranged in total depth from 13.4 ft. below ground surface (bgs) at MW-7 to 27.8 ft. bgs at MW-13. These saturated sands were generally underlain by a compact gray till, which in turn became clay-rich with depth. This lower, clay-rich till unit was interpreted to be the "clay" layer that was identified by C&O Technologies during their previous Phase II investigation.

Soil samples were screened for the presence of organic vapors using a calibrated photo-ionization detector (PID) equipped with an 11.8 eV lamp. Selections of sample intervals to be submitted for analytical testing were based on PID readings and were reviewed with Mr. Frank Sowers of the Department prior to submittal. No visual or olfactory evidence of impacts were noted at the time of sampling. Boring MW-8 exhibited low-level PID readings in the 14 - 20 ft. bgs interval. A summary of PID headspace readings is presented in Table 1.

One soil sample set from each boring, plus Quality Assurance/Quality Control (QA/QC) samples was submitted to Columbia Analytical Services, Inc., Rochester, NY for analysis. Soil samples submitted for analysis are summarized in Table 2.

Two-inch diameter PVC, flush-mount overburden monitoring wells were installed at the top of clay at each location. Well construction details are summarized in Table 3. Well completion reports are presented with boring logs in Appendix C.

A complete round of water levels from new and existing wells was collected on May 31, 2002. A water level summary is presented in Table 4. With the exception of MW-8, the water table was present within 1.3 to 3.3 ft. bgs. The shallow depth to water appeared to be reflective of seasonal high water table conditions. The reason for the lower water level in MW-8 was unclear but was suspected to be related to the presence of a lower sand interval that was documented below the till at this location.

3.2.2 Interior and Exterior Geoprobe Borings - August 2002

Eleven (11) interior and exterior Geoprobe borings (B-8 through B-18) were completed from August 8 to August 12, 2002. Geoprobe borings were performed by Nothnagle Drilling. These Geoprobe boring locations are presented on Figure 4.

Shallow soils beneath the building consisted primarily of brown, saturated silty fine sand that was underlain by sandy till. Individual boring logs are presented in Appendix C.

Soil samples were screened for the presence of organic vapors using a calibrated PID equipped with an 11.8 eV lamp. With the exception of B-14, soils from each Geoprobe boring exhibited elevated PID readings. A summary of PID headspace readings is presented in Table 1. Maximum PID readings exceeding 3,400 ppm were encountered at B-8, which was located immediately adjacent to the former trench drain. In addition, visual and olfactory evidence of impacts were noted at B-8, B-9, B-11, B-15, B-16, B-17, and B-18. A trace to moderate amount of apparent petroleum-related free product was noted in soils from B-15, B-16, B-17 and B-18.

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Based on these observations, a spill report was called in to the Department and spill file number was #0205034 was assigned to the site.

One soil sample set from each boring (plus QA/QC samples) was submitted to Columbia Analytical Services, Inc., Rochester, NY for analysis. Sample intervals were selected based on PID readings and reviewed by Mr. Sowers (Department) prior to submittal. Soil samples submitted for analysis are summarized in Table 2.

Groundwater samples were also collected from seven temporary well points installed in open Geoprobe borings using small diameter disposable bailers. Four of the eleven borings did not yield sufficient groundwater for sampling. Groundwater samples submitted for analysis are summarized in Table 6.

3.2.3 Well Installations – August 2002

The August 2002 round of monitoring well installations included auger drilling, soil sampling and well construction at five locations (MW-2D, MW-6, MW-9, MW-10 and MW-11) from August 5 to August 8, 2002. Monitoring well installations were performed by Nothnagle Drilling. Monitoring well locations are presented on Figure 3.

Soils observed in the soil borings consisted primarily of brown, saturated silty fine sand. These saturated sands were generally underlain by a compact gray till, which in some locations became increasingly clay-rich with depth. Individual boring logs are presented in Appendix C.

Soil samples were screened for the presence of organic vapors using a calibrated PID equipped with an 11.8 eV lamp. The deep boring for MW-2D exhibited the highest PID readings of the monitoring well installations with 117 ppm in the 0-2 ft. bgs interval and 23 ppm in the 8-10 ft. bgs interval. A summary of PID headspace readings is presented in Table 1.

One soil sample set from each boring (plus QA/QC samples) was submitted to Columbia Analytical Services, Inc., Rochester, NY for analysis. Sample intervals were selected based on PID readings and reviewed by Mr. Sowers (Department) prior to submittal. Soil samples submitted for analysis are summarized in Table 2.

Two-inch diameter PVC, flush-mount monitoring wells were installed at the top of clay at each overburden well location. At MW-2D, an overburden/bedrock interface well was installed. Well construction details are summarized in Table 3. Well completion reports are presented with boring logs in Appendix C.

The horizontal and vertical coordinates for the new wells was surveyed by a licensed Sear-Brown survey crew on August 29, 2002. The top of casing (i.e. reference) elevations established by this survey are presented in Table 3.

A complete round of water levels from new and existing wells were collected on August 20, 2002. A water level summary is presented in Table 4.

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3.2.4 Well Installations – February 2003

A round of monitoring well installations conducted in February 2003 involved auger drilling, soil sampling and well construction at two locations. Wells MW-14 and MW-15 were completed on February 25, 2003. Monitoring well installations were completed in accordance with the February 21, 2003 Supplemental Work Plan. The purpose of this round of well installations was to assist in the delineation of the downgradient groundwater plume on the adjacent Five Star Tool property at 383 Buell Road. Monitoring well installations were performed by Nothnagle Drilling. Monitoring well locations are presented on Figure 3.

Soils from MW-14 and MW-15 consisted of brown, saturated silty fine sands that were underlain by clay-rich till. At each location, a dry well sorted fine sand was encountered within the till layer at depth. Individual boring logs are presented in Appendix C.

Soil samples were screened for the presence of organic vapors using a calibrated PID equipped with an 11.7 eV lamp. No elevated PID readings were noted in soil samples collected from the two boring locations. A summary of PID headspace readings is presented in Table 1.

One soil sample from each boring was submitted to Columbia Analytical Services, Inc., Rochester, NY for analysis. Blind field duplicate and matrix spike/matrix spike duplicate (MS/MSD) samples were also included for QA/QC purposes. Sample intervals to be submitted for analytical testing were selected in consultation with Mr. Sowers. Soil samples submitted for analysis are summarized in Table 2.

Two-inch diameter PVC, flush-mount overburden monitoring wells were installed at the top of clay at the MW-14 and MW-15 locations. Well construction details are summarized in Table 3. Well completion reports are presented with boring logs in Appendix C.

Reference elevations for wells MW-14 and MW15 were surveyed on March 31, 2003. The top of casing (i.e. reference) elevations established by this survey are presented in Table 3.

A complete round of water levels from new and existing wells was collected on March 31, 2003. A water level summary is presented in Table 4.

3.2.5 Interior Geoprobe Borings – May 2003

A round of interior Geoprobe soil borings was conducted in May 2003 and included Geoprobe drilling, soil sampling and groundwater sampling from temporary wells. This program was completed in accordance with the April 10, 2003 Supplemental Interior Boring Work Plan and the April 30, 2003 DEC approval letter. The information gathered during this program was used to assist in the formulation of a source area IRM. Geoprobe drilling was performed by SLC, Lockport, NY. These Geoprobe boring locations are presented on Figure 4.

The Supplemental Interior Boring program was performed on May 3 and May 5, 2003 and included a total of 16 Geoprobe borings that were designated B-19 through B-34. Six additional borings, beyond the 10 borings prescribed in the Supplemental Interior Boring Work Plan, were

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added to the scope of the program based upon modifications requested in the Department approval letter and the field findings. All fieldwork was performed in the presence of Mr. Sowers.

Soil samples were screened for the presence of organic vapors using a calibrated PID equipped with an 11.8 eV lamp. A summary of PID headspace readings is presented in Table 1.

A total of 16 soil samples and three groundwater samples were submitted to Columbia Analytical Services for laboratory analysis. QA/QC samples were also submitted for analysis. Soil samples submitted for analysis are summarized in Table 2. Total petroleum hydrocarbon (TPH) analyses were not included in the Supplemental Interior Boring Work Plan but were added for B-20, B-27 and B-32 due to observed impacts to soils from what appeared to be cutting oil and petroleum-related solvents. Given the addition of six soil samples to the program, it was agreed that the three proposed Toxicity Characteristic Leaching Procedure (TCLP) VOC samples in the Supplemental Interior Boring Work Plan would not be analyzed.

Locations of interior Geoprobe borings were established from field ties to interior walls. Copies of field tie measurement records are presented at the end of Appendix C.

3.2.6 IRM Boring and Well Installations – December 2003

Due to the presence of the secondary concrete slab at the northern portion of the IRM excavation footprint, four Geoprobe borings (GP-1 through GP-4) were advanced through the secondary concrete slab to evaluate underlying conditions in that area prior to proceeding with the removal of the secondary concrete slab. The Geoprobe boring locations are shown on Figure 5.

The soil samples were submitted to Columbia Analytical Services for expedited analysis of TCL VOCs and TICs. Preliminary analytical results were provided and indicated that impacts from chlorinated VOCs were limited at the northern extent of the excavation footprint both horizontally and vertically. As a result, the northern limit of the original IRM soil excavation footprint was slightly modified as approved by the Department.

At the completion of the IRM excavation activities, six (6) additional Geoprobe borings (GP-5 through GP-10) were advanced within the southern portion of the excavated area to evaluate the vertical extent of impacts below the excavated depth. Five (5) soil samples were submitted to Columbia for laboratory analysis from these borings. The boring locations are shown on Figure 5.

On December 30, 2003, SLC installed two, six-inch stainless-steel wells in the IRM excavation area for use as potential recovery wells or as future avenues for treatment or deeper borings. At the direction of the Department, wells RW-1 and RW-2 were placed at the northwestern and southeastern extent of the excavated area, respectively. The IRM Geoprobe boring locations, confirmatory soil sample locations and monitoring well locations are presented on Figure 5.

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Wells were installed with a backhoe during construction at the bottom of the excavated area (~6.5-7 ft. below floor surface). Well construction details are summarized in Table 3. Well completion reports are presented with boring logs in Appendix C.

Reference elevations for wells RW-1 and RW-2 were surveyed on January 13, 2004. The top of casing (i.e. reference) elevations established by this survey are presented in Table 3.

3.2.7 B-23 Geoprobe Borings – September 2005

A round of exterior Geoprobe soil borings was conducted in September 2005 and included Geoprobe drilling and soil sampling. This program was completed in accordance with the May 2005 Remedial Investigation Work Plan Addendum. The purpose was to investigate impacted soils in the Former Loading Dock Area around the location of test boring B-23. The B-23 area is located between the loading dock and the property line at the west side of the facility. Geoprobe borings were completed by Nothnagle Drilling. These Geoprobe boring locations are presented on Figure 4.

The B-23 area soil investigation at Buell was conducted on Monday, September 19, 2005. Mr. Sowers and Mr. Bob Long (Department) were present to observe the investigation activities.

Ten (10) Geoprobe soil borings were completed and designated B-35 through B-44. Two borings, B-41 and B-44, were completed on the adjacent Five Star Tool property, 383 Buell Road.

Soil samples were screened for the presence of organic vapors using a calibrated PID equipped with an 11.8 eV lamp. PID soil vapor headspace readings ranged from non-detect to 405 ppm. Impacts were found predominantly in the 2 to 8 ft. bgs interval within a radius of approximately 20 ft. from soil boring B-23. A summary of PID headspace readings is presented in Table 1. Individual boring logs are presented in Appendix C.

Soil samples from each boring were submitted to Columbia Analytical Services, Inc. for analysis. A blind field duplicate and MS/MSD were also included. Sample intervals submitted for analytical testing were selected in consultation with Mr. Sowers. A total of fifteen (15) soil samples were submitted for volatile organic analysis and four (4) samples were submitted for semi-volatile organic analysis. Soil samples submitted for analysis are summarized in Table 2.

3.2.8 Well Installations – November 2005

The last round of monitoring well installations was conducted in November 2005 and included auger drilling, soil sampling and well construction at three locations. This program was completed in accordance with the May 2005 Remedial Investigation Work Plan Addendum. The purpose was to investigate impacted groundwater in the B-23 area and to define the downgradient extent of the groundwater plume. Monitoring wells were completed by Nothnagle Drilling. These monitoring well locations are presented on Figure 3.

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Source area well MW-16 and downgradient wells MW-17 and MW-18 were installed on November 21 and 22, 2005. Messrs. Frank Sowers and Bob Long, Department, were present to observe the investigation activities.

Continuous samples were collected at each soil boring location. Due to significant impacts to soil at shallow depths, boring location MW-16 was terminated at a depth of 10.0 ft. bgs. Individual boring logs are presented in Appendix C.

Soil samples were screened for the presence of organic vapors using a calibrated PID equipped with an 11.7 eV lamp. Elevated headspace readings, staining, and odors were observed in boring MW-16. The highest headspace readings (1,600 ppm peak; 360 ppm sustained) were observed at boring MW-16 in the 0.5 to 2.0 ft. bgs interval, directly under the concrete surface. MW-16 is approximately 7 ft. south of B-23. Low level PID readings were noted in MW-17 and the PID readings from MW-18 were consistent with background conditions. A summary of PID headspace readings is presented in Table 1.

Based on field observations, Stantec selected two (2) samples from boring MW-16 (shallow and deep) and one (1) sample each from borings MW-17 and MW-18 to submit to Columbia Analytical Services. A blind field duplicate and MS/MSD were also included. Sample intervals submitted for analytical testing were selected in consultation with Mr. Sowers. Soil samples submitted for analysis are summarized in Table 2.

Two-inch diameter PVC, flush-mount overburden monitoring wells were installed at the top of clay at the MW-17 and MW-18 locations. As previously noted, MW-16 was installed to a shallower depth of 10 feet, given the observed near-surface impacts. Well construction details are summarized in Table 3. Well completion reports are presented with boring logs in Appendix C.

Reference elevations for wells MW-16, MW-17 and MW-18 were surveyed on May 3, 2006. The top of casing (i.e. reference) elevations established by this survey are presented in Table 3.

3.3 SOIL VAPOR SAMPLING

Three rounds of soil vapor sampling were completed during the RI. Sampling locations included the Comfort Inn (395 Buell Road); Five Star Tool Company (383 Buell Road); and the Marketing Squad, Inc. (1166 Brooks Avenue). Sampling procedures followed site-specific work plans and when available the February 2005 NYSDOH Guidance for Evaluation of Soil Vapor Intrusion in the State of New York, Public Comment Draft. Copies of individual soil vapor sampling reports are presented in Appendix D.

A vapor intrusion study of the Buell building has not been performed since TCE is used at the facility. Although its use was discontinued at one time, one of Buell's customers requested that the use of TCE be reinstated to clean a product line. Therefore, OSHA regulations presently govern allowable occupational exposure levels for TCE within the building. The current use of TCE involves maintaining one 55-gallon drum which lasts approximately two months before it needs to be replaced. Precautionary measures have been instituted to minimize the potential for future TCE releases to occur. It is understood that the Site Management Plan (SMP) for

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post-remedial-action monitoring of the Site will include a provision for annual reporting on the continued use, or discontinuation of the use, of TCE and petroleum solvents at the Site. It is further understood the SMP will need to include a provision for assessment of the need for performance of a vapor intrusion assessment of the Buell facility should the use of these materials be significantly reduced (less than 5 gallons maintained on-Site) or eliminated.

3.3.1 All-Around Travel

Based upon the potential for off-site migration of contaminants, the Voluntary Investigation Work Plan included an Adjacent Building Survey for the building immediately south of the subject property. Stantec conducted a site visit at 385 Buell Road (All-Around Travel) on August 19, 2002 to gather information requested by the Department in an August 15, 2002 letter. Ms. Colleen Thompson, manager of All Around Travel, the tenant at 385 Buell Road, provided access. A small office staff employed by All-Around Travel occupied the front (eastern) half of the building. The back (western) half of the building was unoccupied.

No walls or partitioning existed within the office. The building is comprised of a slab on grade construction with one HVAC system for the entire building. The utility room was located in the approximate center of the building. There were no sumps observed in the building.

Underground utilities enter the property from the east along Buell Road and access the front half of the building along the northerly and southerly walls. Gas and sanitary sewer service enters along the northeast side of the building. Water service enters the building along the southeast side of the building. Electric and telephone services enter the building via overhead lines at the back of the building.

On December 3, 2002, a tank tightness test was performed on the 500-gallon fuel oil tank at 385 Buell Road. This test was conducted on behalf of Mr. Richard Lawton (Buell) in preparation for the proposed purchase of the property. The tightness test, performed by Mr. Steven Wade of Certified Tank Testing, Corning, New York, did not pass. As a result, Mr. Wade reported the test failure to the NYSDEC spill hotline and the incident was assigned Spill #0209109. Mr. Wade noted during the test that the location of the fuel oil tank was unknown and that it may be under the 385 Buell building. As described in Section 3.5, a Subsurface Tank Investigation was subsequently performed. Neither the tank tightness test nor the subsequent activities described in Section 3.5 were conducted as part of the VCA or BCA remedial investigation.

Based upon the findings of the site visit and a December 20, 2002 technical meeting with the Department, a Revised Adjacent Building Survey Work Plan was submitted to the Department in February 2003.

The plan proposed that an initial round of ambient indoor air monitoring be conducted within the 385 Buell Road building. Assuming that the outcome of that testing did not identify a concern with the air quality in that building, Buell would conduct either sub-slab soil vapor testing or continue with ambient indoor air quality testing. It was understood that if indoor ambient air sampling was continued, this program would need to be conducted quarterly for one year and periodically thereafter to verify that indoor air quality conditions were not changing.

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Stantec was subsequently informed that the tenants of the 385 Buell Road building, All-Around Travel, were scheduled to vacate the premises in March 2003. It was understood this was due to a lack of heat in the building associated with the leaking fuel oil tank and the inability of the landlord to correct that situation. There were no new tenants planned for the building. Therefore, it was requested that the air-sampling program be delayed until such time that a new tenant, who was not related to Buell's operations, was identified, as discussed at the December 20, 2002 technical meeting. It was agreed that if and when the building at 385 Buell Road were leased to new tenants, who were not related to Buell's operations, the Revised Adjacent Building Survey Work Plan would be implemented at that time.

All-Around Travel, the tenants at 385 Buell Road, terminated their lease and vacated the building on March 15, 2003. The building has remained unoccupied since that time. As discussed further in Section 3.5, it is understood the Department has recently issued a letter indicating that no further remedial measures will be required to address the petroleum impacts at this time. As a result, Mr. Lawton is pursuing acquisition of this property pursuant to his previously accepted purchase offer.

It is understood that, should plans develop for this building to become occupied, a vapor intrusion evaluation in accordance with NYSDOH guidance would be needed prior to occupation. However, it is anticipated that the building will be razed and the area will be covered with an asphalt parking lot. Based on correspondence with Mr. Mike Zamiarski, the Department's Project Manager for the petroleum spill file, no additional remedial measures will be needed if the building is razed and replaced with an impervious parking area. Should a new building be constructed in this area, it is understood that the Department, NYSDOH and MCDOH will need to be consulted regarding potential additional measures.

3.3.2 Comfort Inn

A meeting regarding on-going investigation-related activities and findings was held at the Department's Region 8 office in Avon on July 8, 2003 between representatives of Buell, the Department and the NYSDOH. As a follow-up to the investigation tasks completed and the findings thereof, it was agreed that a sub-slab soil gas survey would be performed at the Comfort Inn, located at 395 Buell Road and that a Work Plan should be submitted to the Department and NYSDOH for review and approval prior to proceeding. A work plan was submitted for comment to the Department on September 15, 2003.

On October 27, 2003, Stantec contacted Mr. Christopher Burns, Executive Vice-President of Hudson Hotels Corporation, to schedule the Sub-Slab Soil Gas Survey at the Comfort Inn. With the assistance of Mr. Burns, Stantec coordinated an initial site walk-through with Mr. Sowers, Mr. Joe Albert (MCDOH), Mr. Gary Lawton (Buell) and the hotel manager, Ms. Carmen Medina (Comfort Inn). The walk-through occurred on October 30, 2003.

Based upon subsequent comments received from the Department, a revised work plan for a Sub-Slab Soil Vapor Survey at the 395 Buell Road (Comfort Inn) property was submitted on December 31, 2003. The sub-slab soil vapor survey, involving the collection of two sub-slab

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samples, two indoor air samples, one background air sample, and two sump water samples, was performed from January 26 to January 28, 2004.

The methods and findings for the sub-slab soil gas survey at the Comfort Inn were reported on March 10, 2004. A copy of that report, which was also provided to the owner, is provided in Appendix D.

3.3.3 Five Star Tool and Die

On January 5, 2005, a meeting was held at the Department offices in Avon to discuss the scope of additional work and the schedule for completing the BCA site investigation, including a request for soil vapor sampling at Five Star Tool, 383 Buell Road. On March 25, 2005 a Work Plan for a Sub-Slab Soil Gas Survey at the Five Star Tool building, was submitted to the Department. This Work Plan addressed comments and suggestions that Stantec received at the January 5, 2005, meeting and during a site visit that was performed on March 24, 2005.

A vapor intrusion study was completed at the Five Star Tool building during March 2005 in cooperation with the Department, MCDOH and NYSDOH. The study was similar to the program performed at the Comfort Inn in January 2004. The study included one sub-slab vapor sample, one indoor vapor sample and one outdoor vapor sample.

The methods and findings for the sub-slab soil vapor sampling program at Five Star Tool were submitted to the Department on May 9, 2005. A copy of that report, which was also provided to the owner, is provided in Appendix D.

3.3.4 1166 Brooks Avenue

A May 2005 Work Plan Addendum proposed to collect one soil vapor sample from beneath a gravel covered area immediately east of the 1166 Brooks Avenue building.

Access was requested and obtained from the owner of 1166 Brooks Avenue to conduct investigation activities on their parcel. Two shallow soil borings were completed at the east end of 1166 Brooks Avenue in an attempt to install a soil vapor point on September 19, 2005. However, shallow groundwater was encountered at 2 to 3 ft. below ground surface and therefore a soil gas monitoring point was not installed. Further attempts were made in November. A soil vapor implant was installed adjacent to the south side of 1166 Brooks Avenue on November 28, 2005. This location was suggested by the Department due to the high groundwater table in borings drilled previously on the east side of the building. This attempt was also unsuccessful and an alternate approach was developed.

A February 23, 2006 Work Plan for a Sub-Slab Soil Gas Survey at 1166 Brooks Avenue was subsequently developed based on comments provided by the Department in a letter dated March 3, 2006.

The soil gas survey was completed on March 23, 2006. The study included two sub-slab vapor samples, two indoor vapor samples, one outdoor vapor sample and one sump water sample.

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The methods and findings for the sub-slab soil vapor sampling program at 1166 Brooks Avenue were reported to the Department in BCA Progress Report #7. In addition, a Sub-Slab Soil Vapor Monitoring Report was submitted to Mr. Scott Dean, owner of 1166 Brooks Avenue, on August 22, 2006. A copy of that report is provided in Appendix D.

3.4 INTERIM REMEDIAL MEASURES – DECEMBER 2003

On November 3, 2003, Stantec contacted Mr. Sowers to inform the Department that Buell was interested in moving forward with an IRM involving a source removal program in the vicinity of the former trench drain (shipping and receiving area) within the Buell building during their scheduled holiday shutdown period between December 20, 2003 and January 4, 2004. To this end, Stantec indicated they would be submitting an IRM Work Plan to the Department for their review and comment within approximately two weeks.

As discussed during a November 4, 2003 phone conversation, Mr. Sowers indicated that the Department would be willing to allow Buell to proceed with the IRM source removal program in the shipping area. He indicated that the Department would not need to undertake a 30-day public notice process for the IRM activities in this area. He also indicated that both the Department and DOH would be able to review and respond in a timeframe to allow the IRM program to proceed as discussed.

During the month of December 2003, the Interim Remedial Measures Work Plan (IRMWP), which was submitted to the Department on November 20, 2003, was reviewed and commented on by the Department, and implemented during Buell's two-week holiday shutdown period.

Site preparation activities were performed satisfactorily to facilitate the excavation of TCE-impacted soils in the vicinity of the B-8 source area (see Figure 5). Approximately 105 cubic yards (123.44 tons) of concrete and impacted soil was excavated and disposed of off-Site and two stainless-steel wells were installed within the excavation footprint to facilitate potential product recovery and/or groundwater monitoring/treatment efforts in the future. Based on the confirmatory analytical results (see Section 4.2.1 and Appendix E), the excavation program achieved its intended goal of removing the most affected source area soils given the limitations imposed by the building and its related structural components. Maximum soil concentrations were reduced by at least two orders of magnitude as a result of the IRM.

Due to limitations posed by structural considerations, it was understood prior to implementation of the Revised IRMWP that the remedial excavation activities would not serve as the final remedy for Site related impacts. The IRM Final Engineering Report was forwarded to the Department and the other involved agencies on April 7, 2004.

3.5 SUBSURFACE TANK INVESTIGATION – 385 BUELL ROAD

As described in Section 3.3.1, a tank tightness test was performed on a 500-gallon fuel oil tank at 385 Buell Road on December 3, 2002. This test was conducted on behalf of Mr. Lawton in preparation for the potential purchase of this adjacent property. The tightness test, performed by Certified Tank Testing, Corning, New York, did not pass.

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A follow-up investigation was approved by the owner of 385 Buell Road, Mr. Michael Webb, to evaluate the location and condition of the tank. On January 13, 2003, a one-day soil-boring program was performed by Stantec at 385 Buell Road. The soil-boring program involved the installation of two small diameter Geoprobe soil borings inside the building (B-385-1 and B-385-2) and one small-diameter Geoprobe soil boring (B-385-3) outside the building. Based upon field observations, which confirmed the presence of petroleum impacts to soil (including elevated PID headspace readings and visually stained soils), Stantec submitted one soil sample (B-385-1, 3.5-4 ft.) for laboratory analysis. Although elevated concentrations of petroleum-related compounds were reported in the soil sample, none of the chlorinated solvents that had previously been identified during Stantec's investigation of the Buell Site were identified in the sample.

The Subsurface Tank Investigation Report was submitted to Mr. Michael Zamiarski, P.E., (Department) Bureau of Spill Prevention and Response on February 17, 2003.

In April 2003, Labella Associates P.C., (LaBella) on behalf of the owner Mr. Webb, conducted a Phase II Environmental Site Assessment (ESA) and an IRM at 385 Buell Road. The IRM involved the removal of a 500-gallon UST including approximately 150 gallons of home heating oil. Labella also performed a Supplemental Phase II Investigation in August 2003.

A Corrective Action was subsequently performed by Labella in July 2004. Approximately 60 tons of petroleum-impacted soil was removed and disposed at Mill Seat Landfill. Closure sampling by Labella indicated that m,p-xylene in the south and east walls and o-xylene in the south wall were present at levels above Recommended Soil Cleanup Objectives (RSCOs) in the Department's Technical and Administrative Guidance Memorandum 4046 (TAGM 4046). Groundwater samples from wells selected by Labella for analysis were non-detect for Spill Technology and Remediation Series (STARS) VOCs.

The Department requested an additional monitoring well MW-5 be installed and sampled in the vicinity of well MW-1 that was near the tank and was removed during excavation. Although the results of sampling MW-5 in January 2006 were significantly less than levels reported previously for MW-1, they remained at concentrations in excess of Department groundwater standards. Based on the demonstrated reductions in soil and groundwater concentrations, Labella requested that spill file #0209109 be closed. It is understood that the Department has issued a no further action letter. As a result, Mr. Richard Lawton (Buell) is pursuing the acquisition of this property pursuant to his previously accepted purchase offer.

Neither the tank tightness test nor the subsequent investigation and remedial activities that addressed the former fuel oil UST at 385 Buell Rd. were conducted as part of the VCA or BCA remedial investigation for the Buell Automatics Site.

3.6 GROUNDWATER SAMPLING

Several rounds of groundwater sampling was completed during the RI. Sampling methods included use of disposable bailers for Target Compounds List (TCL) Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Pesticides/PCBs

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(Pest/PCBs). Low-flow purging with a peristaltic pump was used for sampling Target Analyte List (TAL) metals. Purging and sampling procedures followed the 2001 Voluntary Investigation Work Plan, except where noted. Newly installed wells were developed prior to purging and sampling. All groundwater samples were submitted to Columbia Analytical Services, Rochester, NY, for analysis by ASP, OLM and EPA 8260 methods, where noted.

3.6.1 August 2002

Seven Geoprobe borings were sampled during the August 2002 sampling event: B-11, B-13, B-14, B-15, B-16, B-17 and B-18. Geoprobe boring locations are presented on Figure 4.

Groundwater was collected from each boring using disposable polyethylene bailers. Geoprobe groundwater samples were collected for analysis of TCL VOCs by ASP 95-1 and submitted to Columbia Analytical Services. The groundwater samples submitted for analysis are summarized in Table 6.

3.6.2 September 2002

Ten wells were sampled during the September 2002 sampling event: MW-1, MW-2, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-12 and MW-13. Monitoring well locations are presented on Figure 3.

The development of new wells MW-6, MW-7, MW-8, MW-9, MW-10, MW-12 and MW-13 was completed prior to purging and sampling. Following development, each new well was allowed to equilibrate for approximately 3 weeks prior to purging and sampling.

Purging and sampling of each well was performed on September 10, 11 and 12, 2002. Mr. Sowers was present to observe portions of the groundwater sampling event. The wells were purged with disposable polyethylene bailers. Field parameters were recorded during purging and are summarized in Table 5. Groundwater samples were collected for analysis of TCL VOCs by ASP 95-1, TCL SVOCs by ASP 95-2, and TCL Pest/PCBs by ASP 95-3, and TAL Metals by ASP 1995 protocol, and submitted to Columbia Analytical Services (CAS). The groundwater samples submitted for analysis are summarized in Table 6.

Monitoring well MW-1 was dry after 1.5 volumes but recovered and was sampled the following day. MW-11 was dry after approximately 1 volume was removed and did not recover upon inspection the following day. Monitoring well MW-2D was dry and was not purged or sampled. Therefore, monitoring wells MW-2D and MW-11 were not sampled during this round. It was anticipated that sufficient groundwater would be available during seasonal high water table conditions in May 2003 in order to allow sampling to occur at that time.

Following purging and collection of samples for VOCs, SVOCs and Pest/PCBs, the purging and sampling for TAL metals was performed with a low flow peristaltic pump and dedicated polyethylene tubing for the following wells: MW-2, MW-5, MW-8 and MW-13. Low flow sampling was a departure from the Work Plan. This departure from the approved Work Plan was allowed

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by the Department. Water quality field parameters (turbidity, pH, specific conductance and temperature), water levels and purge rates are summarized in Table 5.

3.6.3 March 2003

Development of wells MW-11, MW-14 and MW-15 was completed on February 28, 2003. Following development, each well was allowed to equilibrate for approximately 2 weeks prior to purging and sampling. Purging and sampling of MW-11, MW-14 and MW-15 was performed on March 13, 2003. Each well was purged for the collection of VOCs with a disposable polyethylene bailer. Water quality field parameters (turbidity, pH, specific conductance and temperature) were recorded during purging. These data are summarized in Table 5. Groundwater samples were collected for analysis of ASP 95-1 VOCs immediately following purging and submitted to Columbia Analytical Services. The groundwater samples submitted for analysis are summarized in Table 6.

3.6.4 May 2003

Two interior Geoprobe borings were sampled during the May 2003 sampling event: B-19 and B-27. Geoprobe boring locations are presented on Figure 4.

Groundwater was collected from each boring using a disposable polyethylene bailer. Geoprobe groundwater samples were collected for analysis of TCL VOCs by ASP 95-1 and submitted to Columbia Analytical Services. The groundwater samples submitted for analysis are summarized in Table 6.

3.6.5 January 2004

Two interior remedial monitoring wells, RW-1 and RW-2 were sampled on January 13, 2004. These wells were installed during the IRM program. Remedial monitoring well locations are presented on Figures 3 and 5.

Groundwater was collected from each well using disposable polyethylene bailers. Geoprobe groundwater samples were collected for analysis of TCL VOCs by ASP 95-1 and submitted to Columbia Analytical Services. The groundwater samples submitted for analysis are summarized in Table 6.

3.6.6 August 2004

Seven wells were sampled during the August 2004 sampling event: MW-3 and MW-4 (installed by Labella at 385 Buell Road), MW-6, MW-7, MW-11, MW-14 and MW-15. Monitoring well locations are presented on Figure 3.

Each well was purged with disposable polyethylene bailers. Field parameters are summarized in Table 5. Groundwater samples were collected on August 24, 2004 for analysis of TCL VOCs by EPA Method 8260 and submitted to Columbia Analytical Services. The groundwater samples submitted for analysis are summarized in Table 6.

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3.6.7 May 2006

A complete round of groundwater samples from new and existing wells was performed on May 1 and 2, 2006. New wells included MW-16 and MW-17. Existing wells included MW-2, MW-3 (385 Buell), MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, RW-1 and RW-2. New well MW-18 was dry and therefore, was not sampled. Monitoring well locations are presented on Figure 3.

A complete round of water levels was collected from all wells prior to sampling. Water levels are summarized in Table 4. Each well was purged with disposable polyethylene bailers. Field parameters are summarized in Table 5. Samples were collected from each well using disposable polyethylene bailers. Groundwater samples were collected for analysis of TCL VOCs by OLM 4.2 from each well and TCL SVOCs by OLM 4.2 from wells MW-10 and MW-16. Mr. Bob Long (Department) was present on May 1, 2006 to observe the groundwater-sampling program and collected split samples for VOCs from new wells MW-16 and MW-17. Groundwater samples were submitted to Columbia Analytical Services and are summarized in Table 6.

3.6.8 September 2006

Two monitoring wells, MW-16 and MW-17 were sampled on September 15, 2006. Monitoring well locations are presented on Figure 3.

Groundwater was collected from each well using disposable polyethylene bailers. Each well was purged with disposable polyethylene bailers. Field parameters are summarized in Table 5. Groundwater samples were collected for analysis of TCL VOCs by EPA Method 8260 and submitted to Columbia Analytical Services. The groundwater samples submitted for analysis are summarized in Table 6.

3.7 SLUG TESTS

On October 30, 2002, Stantec completed rising and falling slug tests at MW-2, MW-8 and MW-9. Monitoring well locations are presented on Figure 3.

Slug tests were not performed at MW-2D and MW-10 as specified in the Work Plan. Bedrock well MW-2D was dry and MW-10 contained a thin non-aqueous floating product layer. The brown, oily product at MW-10 was subsequently measured to be approximately 0.03 ft. thick. The presence of free product was noted in August 2002 during the drilling and soil sampling in the AST oil storage area located to the northeast of MW-10. However, no floating product had been previously observed during well development or sampling of MW-10, or any other well at the Site.

On November 26, 2002, Stantec completed rising and falling slug tests at MW-6 and MW-7. Pursuant to a discussion with Mr. Sowers, hydraulic conductivity testing of MW-6 and MW-7 was conducted as replacements for MW-2D and MW-10, which were not subjected to slug testing due to the absence of water and the presence of the thin LNAPL layer, respectively.

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Rising and falling slug tests were performed on MW-17 on April 28, 2006. Slug tests were performed using a solid PVC slug, a transducer and data logger. Monitoring well MW-18 was dry; therefore, no slug tests were performed.

3.8 DISPOSAL OF INVESTIGATION-DERIVED WASTES

All investigation-derived wastes, including waste soil, purged groundwater, decontamination rinses, disposable sampling equipment and personal protective equipment (PPE), were handled and disposed of in accordance with applicable regulations. Records documenting disposal of investigation-derived wastes are presented in Appendix K.

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4.0 RESULTS

4.1 HYDROGEOLOGY

The site is located in the Erie-Ontario Lowlands physiographic province. It is characterized by proglacial lake sediments underlain by Paleozoic sedimentary rocks. Soils on the subject property are mapped in the Monroe County Soil Survey as loamy fine sand. The site lies at the western end of the Cobbs Hill Moraine, an east-west ridge of silty fine sand. Glacial sediments are underlain by the Lockport Dolomite Formation, with bedrock outcrops in the New York State Barge Canal ¼ mile to the east of the site.

4.1.1 Site Geology

Based on penetrative investigations conducted by Stantec, the interpreted units at the site, in descending order, include:

- Fill:
- Lacustrine Sand;
- Lacustrine Silt and Clay;
- Glacial Till; and
- Dolomitic limestone.

The thickness of individual overburden units varied across the site. This variability is depicted on geologic cross-sections as presented on Figures 6, 7 and 8. A stratigraphic summary is presented in Table 7. The stratigraphic summary was assembled from individual boring logs in Appendix C. Geotechnical laboratory results are presented in Appendix F.

Surficial fill thicknesses ranged from 0.0 to 3.0 ft. and averaged 1.6 ft. across the site. Typical fill material was asphalt road base and consisted of dry to moist, gray, coarse to fine sand and gravel, with some silt.

Fill was underlain by a saturated lacustrine sand sequence. The brown silty fine sand deposits ranged from 0.4 to 19.2 ft. and averaged 6.4 ft. across the site. Lacustrine sands were occasionally interbedded with denser, varved silt seams at depth.

A summary of grain size data is presented in Table 8. Based upon grain size samples from MW-2D and MW-8, lacustrine sands consist of 0.0% gravel, 53.2-64.9% sand, 34.0-46.1% silt and 0.7-1.1% clay.

Lacustrine sands were typically underlain by clay or compact gray till. However, thin lacustrine sand intervals were also encountered on occasion within the upper few feet of the underlying

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clay. This condition was first noted in boring MW-8 and then subsequently identified in borings MW-2D, MW-6, MW-12, MW-13, MW-14, MW-15, MW-17 and MW-18. Based on grain size analysis, lacustrine silts and clay consist of 0.0-2.4% gravel, 6.2-31.5% sand, 47.2-81.7% silt and 0.1-46.6% clay. Glacial till consists of 24.5% gravel, 47.2% sand, 27.4% silt and 0.9% clay.

Bedrock was encountered in MW-2D at a depth of 37.3 ft. bgs. Rock was cored to a depth of 42.3 ft. bgs using wet rotary methods. Rock core from MW-2D was described as a gray, vuggy, dolomitic limestone.

4.1.2 Groundwater Flow

The surficial geology provides for a low permeability hydrogeologic setting characterized by a shallow water table, low hydraulic conductivities and low average linear velocities of groundwater flow. Unconfined, water table conditions exist within the shallow lacustrine sand unit. Based upon the presence or absence of individual soil types as described above, borings that contained dry sand lenses at depth exhibit perched water table conditions.

Water levels collected during the RI are summarized in Table 4 and were used to construct groundwater contour maps of the site. As depicted on Figure 9, groundwater data collected on August 20, 2002 represents a seasonal low water table condition. The depth to groundwater in the overburden across the site in August 2002 ranged from 2.98 to 15.99 ft. bgs and averaged 7.6 ft. bgs.

As shown on Figures 10 and 11, groundwater contour maps were created from complete rounds of groundwater data collected on May 2, 2006 and September 15, 2006, respectively. The depth to groundwater across the site ranged from 1.66 to 10.15 ft. bgs on May 2 and from 0.34 to 11.96 ft. bgs on September 15.

4.1.3 Hydraulic Conductivity

Grain Size Estimates

Eight soil samples were submitted for geotechnical laboratory analyses to 3rd Rock Geotechnical Laboratory. Discrete and composite samples from boreholes B-29, MW-2D and MW-8 included the following three stratigraphic units: lacustrine sand, silt and clay and glacial till. A summary of the results is presented in Table 8.

The grain size data were used to define key hydrostratigraphic units and calculate hydraulic conductivity using the Hazen Method. As shown in Table 8, the hydraulic conductivity for the lacustrine sand unit ranged from 4.93×10^{-4} to 3.46×10^{-4} cm/sec; hydraulic conductivity for the silt and clay unit ranged from 3.50×10^{-4} to 9.22×10^{-5} cm/sec; and hydraulic conductivity for the glacial till unit was 2.59×10^{-4} cm/sec.

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Slug Test Results

Slug tests were performed on six wells: MW-2, MW-6, MW-7, MW-8, MW-9 and MW-17. A summary of slug test results is presented in Table 9. Slug test calculations are presented in Appendix G.

Results from both rising head and falling head slug tests yielded hydraulic conductivity values of the monitored intervals ranging between 7.2×10^{-4} cm/s and 1.05×10^{-4} cm/s.

4.1.4 Monitoring for the Potential Presence of LNAPL

Soil with traces of or thin horizons of saturation by oily petroleum product was noted in five borings at the Site: B-16, B-17, B-20, B-28 and B-30. As shown on Figure 12, these borings are located within the footprint of the facility building in the area where soil appears to be impacted by contamination from petroleum solvent and/or cutting oil.

A layer of oily light non-aqueous phase liquid (LNAPL) was detected at the top of the water column in monitoring well MW-10 during three of the four groundwater-level monitoring events in which MW-10 was monitored during the RI. As shown on Figure 12, MW-10 is located just to the west of the building in the Former Loading Dock Area, west of and downgradient of the Petroleum Impacts Area borings in which oil-saturated soil was observed. LNAPL was not encountered in other Site wells located further to the north, west or south of MW-10.

4.2 SOIL SAMPLE ANALYSIS RESULTS

Results of laboratory analyses of soil samples for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), TCL Pesticides and PCBs (Pest/PCBs), Target Analyte List (TAL) metals, cyanide, and Total Petroleum Hydrocarbons (TPH) in soil are summarized in Tables 10 – 15. Analytical laboratory reports are provided in Appendix H.

The various progress reports issued to document results and data collected during implementation of the RI (and the IRM) compared soil analysis results to TAGM 4046 Recommended Soil Cleanup Objectives. With the issuance of 6 NYCRR Part 375 in December 2006, the soil analysis results are in this report compared to Part 375.6 Soil Cleanup Objectives (SCOs). In particular, the soil results are compared to Industrial Use SCOs given the industrial use of the site and the industrial zoning of the site and the surrounding properties. In addition, given that some off-site migration of VOCs has been documented, the soil results were also compared to SCOs established for the protection of groundwater even though there is no documented use of groundwater for drinking water purposes in the immediate vicinity of the site.

4.2.1 Summary

VOCs, SVOCs and various metals were detected in soil samples from the Site at reportable concentrations. VOCs were detected above groundwater protection SCOs in samples from each of three apparent contamination source areas present at the Site: the Former Trench

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Drain Area (the area of the IRM soil removal), the Former Loading Dock Area, and the Petroleum Impacts Area. The only significant detection of SVOCs that exceeded Industrial Use or Protection of Groundwater SCOs were reported in a sample interval from test boring B-8 which was excavated as part of the Former Trench Drain Area IRM, and therefore no significant SVOCs remain above Industrial Use SCOs. None of the reported metals concentrations exceeded Industrial Use or groundwater protection SCOs. No PCBs, pesticides or cyanide were reported at detectable concentrations in soil.

On- and off-Site locations where soil samples were found to be contaminated at levels that exceed Part 375 SCOs are shown on Figure 12. Figure 12 also shows the approximate extent of soil contamination in each of the three apparent source areas. Figures 12A, B, and C present detailed information on the nature and extent of soil contamination in the Former Trench Drain Area, the Former Loading Dock Area, and the Petroleum Impacts Area, respectively. Figures 12A, B, and C each present a summary of sample analysis results for compounds that exhibited an exceedance of SCOs and a summary of field screening, visual observation, odor and laboratory data concerning the presence of grossly-contaminated soil.

4.2.2 Volatile Organic Compounds

TCL VOC soil results from RI monitoring well borings and test borings are summarized in Tables 10 and 11, respectively. Sample analysis results summary tables for IRM samples are presented in Appendix E.

The chlorinated solvent VOC trichloroethene (TCE) and its related biodegradation product cis-1,2-dichloroethene (DCE) were the primary VOC contaminants detected. These and other related chlorinated VOC biodegradation products were detected above groundwater protection SCOs in many samples from both the Former Trench Drain Area and the Former Loading Dock Area. TCE and DCE were also found to slightly exceed groundwater protection SCOs in one sample from test boring B-19 in the Petroleum Impacts Area.

TCE was found above Industrial Use SCOs in one sample each from the center of both the Former Trench Drain Area and the Former Loading Dock Area (at test borings B-8 and B-23, respectively). In the Former Trench Drain Area, the B-8 sample interval that exceeded the Industrial Use SCO was removed with surrounding soil during the IRM excavation.

The chlorinated solvent compound 1,1,1-trichloroethane (TCA) was also found above groundwater protection SCOs in samples from the Former Loading Dock Area. Minor exceedances of groundwater protection SCOs by the VOCs TCA, tetrachloroethene, ethylbenzene, toluene and xylene were also found in some samples from the Former Trench Drain Area.

A summary of the extent of contamination indicated by the RI results in each of the three source areas is presented below.

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• Former Trench Drain Area (refer to Figure 12A)

123.4 tons of grossly-impacted soil and associated concrete were removed from the 20 ft. by 25 ft. by 6- to 7- ft. deep IRM excavation. The RI data indicates that the most highly contaminated material was removed from this area by the IRM and that the contaminated soil that remains in place is found primarily on the south and east sides of the IRM area. As shown on Figure 12A, significant contamination was not detected in floor, sidewall, or boring samples collected in and around the north half of the excavation. In the south half of the excavated area, contaminated soil extends 2 to 3 feet below the bottom of the excavation backfill (from 7 to 10 feet below grade). Along the south and southeast walls of the excavation, contaminated soil was left in place where it was inaccessible beneath foundation grade beams; however, RI data indicates that significant levels of contamination do not extend laterally more than a few feet beyond the excavation limits. Borings B-13 and MW-2D, located 3 to 5 feet to the south of the excavation limits, did not encounter significant contamination. At borings B-9 and B-24, located 2 and 5 feet from the east and west sides of the southern end of the IRM area, relatively low levels of contamination are present in soil in the interval from 5 to 6.5 feet below grade. Relatively low concentrations of contaminants were also detected in the interval from 6 to 8 feet below grade at a B-11 located approximately 20 feet to the east of the southeast corner of the excavated area.

Indications of petroleum impacts, including observations of staining or sheen in the samples, the presence of ethylbenzene, toluene, and xylene, and relatively high levels of tentatively-identified non-target VOCs and SVOCs (TICs), were noted in boring and sidewall and bottom samples from along the south wall and on the west side of the IRM area. These indications correlate fairly strongly with levels of chlorinated VOCs. It is suspected that the presence of petroleum constituents in the IRM area is a consequence of past releases from the Former Trench Drain Area rather than an overlap of impacts from the Petroleum Impacts Area (see below) located to the northeast of the IRM area.

• Former Loading Dock Area (refer to Figure 12 B)

This source area is estimated to cover an area of approximately 45 ft. by 65 ft. The most highly contaminated soil is found in the top 2 feet of soil in center of the area, although SCO exceedances were found to depths of up to 8 ft. The RI data indicates that impacted soil may extend off-Site to the west onto the adjacent Five Star Tool parcel at 383 Buell Road; however, the off-Site impacts appear to be limited to less than 20 feet from the western Site boundary.

In the southeast part of the Former Loading Dock Area, the area of chlorinated VOC impacts is overlapped by the adjacent area of impacts from release of petroleum. As described below, an LNAPL layer was observed at the water table at monitoring well MW-10. Oily soil samples were observed at adjacent borings B-16 and B-17 located to the east of the Former Loading Dock Area.

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• Petroleum Impacts Area (refer to Figure 12 C)

Low levels of petroleum-related VOCs at concentrations that do not exceed SCOs are present. Higher concentrations of tentatively-identified compound (TIC) VOCs were observed in many samples, however, and the contamination in this area is believed to have originated from use of petroleum solvent and/or cutting oil. The petroleum product impacts are also evidenced by detections of tentatively identified semi-volatile organic compounds (SVOCs, see Section 4.2.3 below) and total petroleum hydrocarbons (TPH, Section 4.2.6) and by observations of petroleum sheen or, at a few locations, thin horizons of oil-saturated soil in this area of the facility. As noted above, TCE and DCE were detected at a relatively low level at one location (B-19) in this area.

The soil contamination in this area was observed in the horizon between 2 and 7 feet below the floor of the Buell facility. As shown on Figure 12C, the relatively minor contamination by VOCs and petroleum products is for the most part limited to an area beneath the building footprint, although the area of soil contamination does extend approximately 20 feet beneath the parking lot north of the facility oil tank room, and, as indicated in Section 4.1.4 above, the presence of LNAPL at the water table was indicated downgradient of this area at monitoring well MW-10.

A detailed description of the laboratory VOC analysis results for RI and IRM samples is presented in Appendix L, which presents the results in the chronological order in which the various sampling programs were conducted at the Site.

4.2.3 Semi-Volatile Organic Compounds

A total of 21 soil samples were submitted for analysis of TCL target SVOCs by ASP method 95-2. An additional four samples were submitted in September 2005 for analysis of TCL SVOCs by EPA method OLM 4.2. TCL SVOC results are summarized in Table 12.

As shown in Table 12, except for test boring B-8, no target SVOCs were reported above Industrial Use or Protection of Groundwater SCOs. The area surrounding and including B-8 was excavated during the Former Trench Drain Area IRM, and therefore the soil containing SVOCs at levels exceeding SCOs was removed from the Site.

Concentrations of total SVOC TICs above100,000 ug/kg were reported in five borings. The locations included B-8 (soils excavated and removed during the IRM), B-9, and B-10 in the Former Trench Drain Area, MW-10 in the Former Loading Dock Area, and B-17 in the Petroleum Impacts Area. No SCOs have been promulgated by the Department for TICs.

4.2.4 Pesticides and PCBs

A total of six samples were submitted for analysis of TCL Pesticides and PCBs by ASP method 95-2 in May 2002 and August 2002. An additional five samples were submitted for analysis of PCBs only in August 2002. TCL Pesticide and PCB results are summarized in Table 13.

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As shown in Table 13, no Pesticide or PCB compounds were reported above detection limits.

4.2.5 TAL Metals and Inorganics

A total of 11 samples were submitted for analysis of TAL metals and inorganics in May and August 2002. TAL Metals and inorganics results are summarized in Table 14. As shown in Table 14, all analytes were reported at concentrations below the SCOs for industrial use and the protection of groundwater.

4.2.6 Total Petroleum Hydrocarbons (TPH)

TPH data in soil are summarized in Table 15. Four samples were analyzed for TPH by NYSDOH Method 310-13. These data were collected from Petroleum Impacts Area soil borings (B-20, B-27 and B-32) at which indications of the presence of free petroleum product were noted in soil samples.

The sample analysis results were compared to laboratory standards of #2 Fuel Oil/Diesel Fuel, Gasoline, Kerosene and Lube oil as well as three samples supplied to the laboratory of raw materials in use at Buell. The laboratory results indicated that TPH detected in each soil sample was most similar to N-Dodecane, a long chain hydrocarbon. None of the chromatograms of the four soil samples matched the laboratory standards for petroleum products or the samples of Site petroleum products.

TPH concentrations detected ranged from 6,600 to 19,000 mg/kg. No standards have been promulgated by the Department for TPH.

4.3 GROUNDWATER SAMPLE ANALYSIS RESULTS

Groundwater samples were collected from monitoring wells and Geoprobe borings during several rounds of sampling. Groundwater sample analysis results, which were compared to 6 NYCRR Part 703 Groundwater Standards and TOGS Memo 1.1.1, are summarized in Tables 16-20.

4.3.1 Volatile Organic Compounds

Reported concentrations of VOCs in groundwater samples from monitoring wells and Geoprobe borings are summarized in Tables 16 and 17, respectively.

4.3.1.1 Conditions in Chlorinated VOC Source Areas and the Downgradient Plume

As shown in Table 16, chlorinated VOCs were reported to exceed groundwater standards in 13 of the 19 monitoring wells. The highest concentrations of chlorinated VOCs were detected in monitoring wells MW-10 and MW-16 located within the Former Loading Dock source area, wells RW-1 and RW-2 located within the footprint of the Former Trench Drain Area IRM excavation, and wells MW-2 and MW-8 located south and immediately downgradient of the Former Trench Drain Area. The primary chlorinated VOCs present in groundwater include TCE and its

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breakdown products cis-1,2-DCE, 1,1-dichloroethane (DCA) and vinyl chloride. 1,1,1-TCA was also detected at elevated concentrations at MW-16 in the Former Loading Dock Area.

Contour plots of total chlorinated compounds in groundwater from September 2002 and May 2006 are presented on Figures 13 and 14, respectively. The contour plot from September 2002 represents groundwater conditions prior to the IRM soil excavation activities and installation of the subsequent RI monitoring wells. The contour plot from September 2006 represents conditions approximately 3 years after the IRM and uses the complete network of wells.

4.3.1.2 Upgradient Conditions and Limits of the Downgradient Plume

Traces of chlorinated VOCs were detected at upgradient monitoring wells MW-12 and MW-13 when those two wells, located at the northern site boundary, were sampled in September 2002. (The concentrations of tetrachloroethene and TCE detected in the MW-12 sample were slightly above groundwater standards.) The source of the traces of VOC contaminants detected in these two wells is presumed to be located off-Site to the north. Potential off-site sources of groundwater contamination in the area north of the site include various industrial and commercial facilities (including manufacturing, trucking, and car-rental operations) located along Buell and Ajax Roads.

The six wells that did not exhibit chlorinated VOC contraventions included MW-1, MW-3, MW-4, MW-5, MW-13 and MW-17. Upgradient well MW-13 was discussed in the previous paragraph; the other wells establish the limits of the plume on the east, southeast and southwest. Monitoring well MW-17, located southwest of the Buell Site on the 1166 Brooks Avenue property, was installed to define the downgradient limits of the chlorinated VOC plume at Buell. No chlorinated compounds were reported to be present in the groundwater sample collected from MW-17 and no VOCs were detected in the MW-17 split sample submitted by the Department. Therefore, MW-17 defines the downgradient limits of the groundwater plume.

4.3.2 Semi-Volatile Organic Compounds

Reported concentrations of SVOCs in groundwater samples are summarized in Table 18. Only three SVOCs were detected in groundwater above their respective groundwater standards. 4-Nitroaniline and Nitrobenzene were reported to be present at concentrations that slightly exceed their respective groundwater standards of 5 ppb and 0.4 ppb, respectively, from MW-1 along Buell Road. Given their location and their low concentrations, these SVOCs are not considered to be reflective of environmental concerns at the Site.

Naphthalene was reported to be present in MW-16 at 27 ug/l, which exceeds the Class GA groundwater standard of 10 ug/l.

4.3.3 Pesticide and PCB Compounds

A total of five groundwater samples were submitted for analysis of TCL Pesticides and PCBs by ASP method 95-2 in September 2002. TCL Pesticide and PCB results are summarized in Table 19.

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As shown in Table 19, no Pesticide or PCB compounds in groundwater were reported above detection limits.

4.3.4 TAL Metals and Inorganics

Reported concentrations of TAL Metals and inorganics in groundwater samples are summarized in Table 20. With the exception of aluminum, iron, magnesium and manganese, all other metals and inorganic analytes were reported at concentrations below groundwater standards. The four metals with elevated concentrations are all naturally occurring and are not considered to be an environmental concern.

4.4 ANALYTICAL AIR RESULTS

4.4.1 Comfort Inn

Analytical soil gas, ambient air and sump water sample results from the Comfort Inn are summarized in Table 21.

Three of the five air samples (SG-1, SG-2A and BA-2A) were reported to contain detectable concentrations of target VOCs. No detectable concentrations of target compounds were reported for indoor air sample BA-1 and outdoor ambient air sample BK-1. At the time this testing was performed, guidance values for sub-slab air quality and ambient air quality data were under review and the reported occurrences of target VOCs were evaluated on a case-by-case basis.

A total of four VOCs were reported in the air samples that were submitted for analysis: PCE, TCE, cis-1, 2-DCE; and trans-1, 2-DCE. PCE was reported at the highest concentration. PCE was reported in both soil gas samples and also in the ambient air sample BA-2A from the basement. The concentration of PCE in sub-slab soil gas was reported to range from 0.79 micrograms/cubic meter (ug/m3) in SG-1, collected beneath Room 124, to 21,000 ug/m3 in SG-2A, collected beneath the basement utility room. PCE was reported in ambient air in BA-2A in the basement utility room at 1.1 ug/m3.

TCE was reported in both sub-slab soil gas samples. The concentration of TCE in sub-slab soil gas was reported to range from 4.3 ug/m3 in SG-1, collected beneath Room 124, to 9,900 ug/m3 in SG-2A, collected beneath the basement utility room. Cis-1, 2-DCE and trans-1, 2-DCE were reported to be present in only the basement utility room sub-slab soil gas sample SG-2A.

No TCE was reported above detection limits in either of the building air samples.

Three TCL VOCs were reported in both of the basement utility room sump water samples submitted for analysis: PCE, TCE and trans-1,2-DCE. The three compounds were reported at concentrations ranging from 67 micrograms per liter (ug/l) to 120 ug/l. Each of the reported concentrations of the three compounds were higher than their respective groundwater standards (5 ug/l for each compound).

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The most abundant compound reported in the sump water was PCE (100-120 ug/l), a drycleaning solvent. PCE has not been reported originating in groundwater at Buell. TCE, although the predominant compound present at the Buell site, also is commonly found as a breakdown product of PCE. Similarly, trans-1,2-DCE, is also commonly found as a breakdown product of PCE, and has only been reported at very low levels in groundwater at the Buell site.

Based upon the product inventory for the Comfort Inn, it did not appear that the products and chemicals that were stored in the basement at the Comfort Inn were the source of the PCE. It should also be noted that the higher concentrations were reported in sump water sample BU-SW-2-W which was collected from Sump #2, located in the southwest corner of the utility room along an interior wall. Lower concentrations were reported from Sump #1 located in the stairwell leading to the utility room along the exterior north wall.

In summary, with the exception of the reported presence of cis-1, 2-DCE, the sub-slab soil gas data reflected the contaminants that were reported in the basement sump water samples. Similar to the sump water data, it appeared that a source of PCE unrelated to the Buell site resulted in the impacts observed beneath, and within the basement utility room. The Department concurred and Comfort Inn subsequently entered into a separate BCA to investigate the source of the findings at their Site.

4.4.2 Five Star Tool Company

Summaries of the laboratory analytical results for the sub-slab vapor; indoor air and outdoor air samples for Five Star Tool are presented in Table 22. Included in these tables are available NYSDOH and USEPA guidance values.

The sub-slab vapor sample (32905-1) and indoor air sample (32905-2) were reported to contain detectable concentrations of target VOCs. No detectable concentrations of target VOCs were reported for the outdoor air sample (32905-3). As shown in Table 22, three VOCs were reported for the sub-slab vapor sample:

- 1,1-DCA (4.2 µg/m3);
- cis-1,2-DCE (9.1 μg/m3); and
- TCE (340 μg/m3).

As shown on Table 22, only one target VOC, cis-1,2-DCE, was reported to be present in the indoor air sample. Its concentration in indoor air (1.6 μ g/m3) as well as its sub-slab concentration were both below applicable NYSDOH guidance values that indicate a potential need for further action. These results and the absence of TCE and 1,1-DCA in the indoor air sample indicate that vapor intrusion is not currently causing an adverse impact on conditions in the Five Star Tool building. However, the concentration of TCE detected in the sub-slab sample (340 μ g/m3) is above the NYSDOH guidance value that suggests the need for mitigation to protect against potential vapor intrusion.

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4.4.3 1166 Brooks Avenue

Summaries of the laboratory analytical results for the sub-slab vapor; indoor air; outdoor air and sump water samples for 1166 Brooks Avenue are presented in Table 23, including available NYSDOH and USEPA guidance values.

The sub-slab vapor samples collected at 1166 Brooks Avenue were reported to contain low-level, but detectable concentrations of four target VOCs: PCE, TCE, cis-1, 2-DCE and 1,1-DCA. One compound, PCE, was reported from BU-1166-SS-1 on the east side of the building. Four compounds, PCE, TCE, cis-1, 2-DCE and 1,1-DCA, were reported from BU-1166-SS-2 on the west side of the building. No compounds were reported above the method reporting limit for either of the two indoor, or one outdoor (ambient), air samples and no VOCs were reported to be present in the sump water at 1166 Brooks Avenue.

PCE has not been reported at the Buell Site at any appreciable concentrations. Given the presence of the greatest concentrations of PCE on the west side of the 1166 Brooks Avenue building furthest from Buell, and the reported presence of TCE, cis-1, 2-DCE, and 1,1-DCA only on the west side of the building, it did not appear that the Buell Site, located to the east of the building, is the source of these findings. Furthermore, according to the NYSDOH Guidance "Soil Vapor / Indoor Air Matrices 1 and 2", the concentrations of cis-1, 2-DCE, PCE and TCE in the sub slab vapor samples, combined with the non-detect concentrations in indoor air samples, did not warrant any further action.

5.0 QA/QC EVALUATION

5.1 DATA USABILITY REPORTS

Laboratory reports received from Columbia Analytical Services for the soil and groundwater samples were forwarded to Ms. Judy Harry of Data Validation Services, Inc. for preparation of Data Usability Summary Reports (DUSRs). Copies of the DUSRs are provided in Appendix I. The results from these DUSRs have been incorporated into the various tables presented in this report.

5.1.1 Data Usability Summary Report for CAD Sub Nos. R2212007, R2213195 and R2213646

The data packages generated by Columbia Analytical Services which pertain to samples collected 5/20/02 through 9/12/02 at the Buell Site. Five aqueous and five soil samples were processed for full TCL/TAL analytes. Thirteen aqueous samples were processed for TCL volatiles; six of those were also analyzed for TCL semi-volatiles. Ten soil samples were processed for TCL volatiles and TCL semi-volatiles and two of those were analyzed for PCBs. Three soil samples were processed for full TCL/TAL without pesticides and three other soil samples were processed for full TCL/TAL without pesticides or PCBs. Rinse, trip and cooler blanks were also analyzed. Methodologies used were those of the NYSDEC ASP 1995.

In summary, most sample analyte values/reporting limits were usable as reported, or with minor qualification as estimated ("J" qualifier) due to processing or matrix effects. No data were rejected.

5.1.2 Data Usability Summary Report for CAS SDG Nos. R231842, R2316048 and R2316744

The data packages generated by Columbia Analytical Services that pertain to samples collected on 2/25/03, 3/13/05, 5/3/03 and 5/5/03 at the Buell Site included eighteen soil and seven aqueous samples processed for TCL volatiles by NYSDEC ASP CLP method 95-1. Two of those soils and two other soils were also analyzed for TPH by NYSDOH Method 310-13. Trip and cooler blanks were also processed.

In summary, the DUSR indicated sample analyte values and reporting limits were usable as reported or usable with qualification as estimated ("J" qualifier) due to typical processing or matrix effects.

5.1.3 Data Usability Summary Report for CAS SDG Nos. R2319595, R2319657, R2319774 and R2419875

The data packages generated by Columbia Analytical Services that pertain to IRM samples collected from 12/23/03 through 1/13/04 at the Buell Site included twenty soil (including one field duplicate) and two aqueous samples processed for TCL volatiles by NYSDEC ASP CLP method

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95-1. Six additional soil samples were processed by USEPA Method 8260B, in order to meet expedited turnaround requirements required for the IRM. Trip and cooler blanks were also processed.

In summary, the DUSR indicated sample analyte values and reporting limits were usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to typical processing or matrix effects.

5.1.4 Data Usability Summary Report for CAS SDG. Nos. R2631499

The data package generated by Columbia Analytical Services that pertains to samples collected on 5/1/06 and 5/2/06 at the Buell Site included twelve aqueous samples and a field duplicate on processed for TCL volatiles. Two of the samples and a field duplicate were also processed by TCL semivolatiles. Trip and cooler blanks were also analyzed. The laboratory methodologies involved USEPA CLP OLM04.2.

In summary, the DUSR indicated the results were usable as reported or usable with minor qualification due to sample matrix or to typical processing outliers.

6.0 Qualitative On-Site and Off-Site Exposure Assessments

6.1 QUALITATIVE ON-SITE & OFF-SITE HUMAN HEALTH EXPOSURE ASSESSMENT

6.1.1 Human Health Exposure Setting

6.1.1.1 Human Health Conceptual Site Model

The Human Health Conceptual Site Model (CSM) developed and relied upon for this assessment is provided in Figure 15. This model was prepared based on the current and proposed industrial use of the Site and incorporates information on Site characteristics and environmental conditions outlined in the previous sections. The Human Health CSM is a graphical representation of the exposure pathways considered for this qualitative exposure assessment.

6.1.1.2 General Exposure Considerations

The Site is located in an area with industrial and commercial uses. The Site is bounded to the north by a remote airport parking lot, to the east by Buell Road and a remote airport parking lot, to the south by the vacant, former All-Around Travel building which is in the process of being acquired by Mr. Richard Lawton and Buell, and to the west by the Five Star Tool industrial facility. The nearest residential building is located approximately 1,500 feet to the northwest.

Buildings occupy roughly 29% of the Site, while the remaining surface area is covered with asphalt parking lots and access roads.

The primary human health concern at the Site stems from the two identified source areas of chlorinated VOC impacts in subsurface soil in the Former Trench Drain Area and the Former Loading Dock Area and the Site-related chlorinated-VOC-contaminated groundwater originating from these two source areas.

6.1.1.3 Potential Receptors

Considering that current light industrial activities at the Site are expected to continue for the foreseeable future and that remedial work is anticipated on-site, the construction worker/trespasser, and occupational worker have been identified as the most appropriate potential human receptors.

Exposures to the construction worker may occur during remediation, construction and other activities that involve intrusive activities at the Site or at its periphery, including potential work to repair or modify utilities along the easement between 381 and 385 Buell Road. Exposures to the occupational worker at the Buell facility could occur during normal facility operations due to the ongoing use of TCE at the site, potential vapor intrusion into the building, by way of

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exposure to soil vapor and groundwater during in-situ remediation system operation, as well as during any excavation activity that may take place on or around the Site in the impacted areas.

Exposure to occupants of nearby buildings could potentially occur during remediation work at the Site through dispersion of particulates of contaminants and volatilization of VOC contaminants from soil, groundwater or soil vapor. Exposure of occupants of nearby buildings to VOCs could potentially occur from vapor intrusion.

The Five Star Tool building is the only nearby building that appears to represent a significant potential for exposures to occupants from Site-related VOC contaminants. Factors that will affect the potential for exposures to Site-related contaminants to occupants of the Five Star Tool building include the following:

- the proximity of the western edge of the Site-related groundwater contaminant plume to the east end of the Five Star Tool building;
- the presence of TCE in sub-slab soil vapor beneath the Five Star Tool building at concentrations above NYSDOH guidance values;
- the thickness and competency of the building floor slab;
- the presence of crawl-space areas;
- the operation of the heating and ventilation system for the building, and whether the system maintains a constant positive air pressure relative to the sub-slab environment;
- remedial actions that my be implemented at the Site;
- future use of the building and the Five Star Tool property;
- background levels of Site-related contaminants and other VOCs in air; and
- other, non-Site-related potential sources of volatile chemicals in air.

6.1.2 Human Health Exposure Pathway Analysis

The pathway analysis identifies possible exposure routes through which on-Site and off-Site receptors may come into contact with the contaminants of concern present on the Site. Based on the Human Health CSM (Figure 15) those exposure routes include:

- Inhalation of vapors released from volatile substances present in subsurface soils (occupational worker and construction worker/trespasser);
- Inhalation of substances contained in particulates from subsurface soils (all potential receptors);

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

- Ingestion and dermal contact of substances in subsurface soils (occupational worker and construction worker/trespasser); and
- Ingestion, inhalation and dermal contact with substances present in groundwater (occupational worker and construction worker/trespasser).

Because of the specific conditions encountered at and near the Site, the following pathways have been reviewed, but do not represent important pathways of exposure:

- Direct exposure to contaminants via groundwater discharge to the Barge Canal, the nearest surface water body, is unlikely. The Barge Canal is located hydraulically upgradient and there is no analytical data available to demonstrate that contaminants are migrating to the Canal.
- Nearby businesses utilize a public drinking water supply. Discussions with Mr. Joe
 Albert at MCDOH and the MCWA indicate there are no known drinking water wells in the
 vicinity of the Site. Exposure to chemicals through ingestion of, or dermal contact with,
 groundwater used as a water supply is therefore not a concern at the Site or in the
 surrounding area.
- Surface soil contamination is not a concern at the Site. The absence of accessible surface soil is attributable to the presence of buildings and impervious asphalt and/or concrete surfaces on top of contaminated areas. Inadvertent ingestion or dermal exposure through direct contact with chemicals at the undisturbed surface therefore is not a concern at the Site.
- Inhalation of suspended particles in air is not considered a significant risk unless subsurface soils are excavated and exposed to dispersion mechanisms. Mandatory measures would be adopted to control soil tracking, soil erosion and dispersion of dust during excavation and remediation work.
- No residential buildings are situated within or near the area affected by soil, groundwater
 or soil vapor impacts. Therefore, exposure through soil vapor intrusion into residential
 buildings is not a concern.

6.1.3 Human Health Exposure Assessment Summary

Results of the interior boring, soil sampling and groundwater sampling program suggests the potential presence of a vapor inhalation exposure pathway for occupational workers. However, TCE continues to be used at the Site, therefore, potential TCE exposure would be subject to OSHA regulations. Exposure pathways involving inhalation of contaminants suspended in air in soil particles or volatilized from subsurface soils and groundwater during remediation work would be expected to be temporary and would be controlled through good engineering practices.

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

It is understood that the Site Management Plan for post-remedial-action monitoring of the Site will include a provision for annual reporting on the continued use, or discontinuation of the use, of TCE and petroleum solvents at the site and a provision for assessment of the need for performance of a vapor intrusion assessment of the Buell facility should the use of these materials be significantly reduced (less than 5 gallons maintained on-Site) or eliminated.

At the adjacent, off-Site Five Star Tool facility, the RI results indicate that vapor intrusion is not currently causing an adverse impact on conditions in the Five Star Tool building. However, the concentration of TCE detected in the sub-slab sample is above the NYSDOH guidance value that suggests the need for mitigation to protect against potential vapor intrusion.

Direct on-site exposure by way of ingestion, inhalation or dermal contact with contaminated soils or groundwater will also be transient in nature and will be restricted to periods of remediation work. Remediation of on-Site contamination will allow continued industrial use of the property in accordance with institutional controls and a Site Management Plan.

Source removal and control of contaminant migration through implementation of groundwater remediation measures will mitigate the off-Site migration of the contaminated groundwater plume.

6.2 QUALITATIVE ON-SITE AND OFF-SITE FISH AND WILDLIFE EXPOSURE ASSESSMENT

6.2.1 Fish & Wildlife Exposure Setting

6.2.1.1 Fish and Wildlife Conceptual Site Model

The Fish and Wildlife Conceptual Site Model (CSM) developed and relied upon for this assessment is provided in Figure 16. This model was prepared based on the current and proposed urban industrial use of the Site and incorporates information on Site characteristics and environmental conditions outlined in previous sections. The Ecological CSM is a graphical representation of the exposure pathways considered for this qualitative fish and wildlife exposure assessment.

A Fish and Wildlife Resources Impact Analysis Decision Key for the Site is presented in Appendix M.

6.2.1.2 General Exposure Considerations

Please refer to Section 6.1.1.2 for general on- and off-site exposure considerations.

As per the human health qualitative exposure assessment, the primary ecological concern at the Site stems from the two identified areas of chlorinated VOC impacts in subsurface soil and groundwater originating in the vicinity of The Former Trench Drain Area and the Former Loading Dock Area.

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

6.2.1.3 Receptor Characteristics

Since the Site is located in an industrial urban environment, only known sensitive ecological receptors are to be considered in this fish and wildlife exposure assessment. Requests were sent to the New York Natural Heritage Program and the US Fish and Wildlife Service (USFWS) to determine any known occurrence of rare, endangered and/or threatened species in the vicinity of the Site.

The New York Natural Heritage Program reports no State listed or proposed endangered or threatened species under their jurisdiction that exist within the project impact area (Appendix J).

In accordance with the current USFWS policy for information on threatened and endangered species, Stantec has reviewed the USFWS web page for federally listed threatened and endangered species in Monroe County. The federal listing identifies the bog turtle (Clemmys muhlenbergii) in the Towns of Riga and Sweden as the only federally threatened or endangered species occurring in Monroe County. There were no threatened/endangered species identified in the vicinity of Buell Road in the Town of Gates. According to USFWS policy, if a subject site contains no habitat suitable for the subject species, no further investigation is required. Given that the subject site is located in an industrial area with no marsh cover/edge wetlands that are the preferred habitat of the bog turtle, no further investigation is needed.

6.2.2 Exposure Pathway Analysis

The pathway analysis identifies the possible exposure routes through which on-Site and off-Site identified sensitive receptors may come into contact with the contaminants of concern present on the Site. Based on the Fish and Wildlife CSM (Figure 17), the only exposure routes include ingestion, inhalation or dermal contact with substances present in the subsurface by terrestrial fauna living or burrowing below ground (e.g. invertebrate receptors).

Because of the specific conditions encountered at and near the Site, the following pathways have been reviewed, but do not represent important pathways of exposure:

- Sensitive ecological receptors have not been identified as being present on or adjacent to the Site. Hence, on-Site exposure pathways to fish and wildlife are not considered in this assessment;
- Inhalation and contact by sensitive ecological receptors with suspended particles in air is
 not considered a significant risk unless subsurface soils are excavated and exposed to
 dispersion mechanisms. Mandatory measures would be adopted to control soil tracking,
 soil erosion and dispersion of dust during excavation and remediation work in order to
 protect any sensitive ecological receptors that could potentially be present in the vicinity
 of the Site; and
- The potential discharge of water resulting from remediation efforts at the Site to the
 existing sanitary sewer system is not anticipated to have any effect on the possible
 presence of endangered species in the vicinity of the Site. A potential remediation

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

project would not involve the construction or relocation of any storm sewer discharge locations. The Department and the Monroe County Department of Environmental Services would determine the disposal route and associated permits required for discharge of water generated by a remedial program, however it is anticipated that any effluent would be discharged to the Monroe County sanitary sewer to eliminate potential contact with contaminants.

6.2.3 Fish & Wildlife Exposure Assessment Summary

As mentioned previously, there is no analytical data available to demonstrate that contaminants are migrating to the nearest water body, the Barge Canal. Source removal and control of contaminant migration will best address potential off-Site exposure potentials to any potential sensitive ecological receptors in the area.

7.0 INTERPRETATIONS AND CONCLUSIONS

On behalf of Buell Automatics, Inc. (Buell), Stantec Consulting Services Inc. (Stantec) has performed a Remedial Investigation (RI) on the Buell Site (Site) located at 381 Buell Road in the Town of Gates, NY (Figure 1). This RI was completed pursuant to Buell's Brownfield Cleanup Agreement (BCA) for the Site (Index #B8-0576-00-04A) that was executed by the New York State Department of Environmental Conservation (Department) on December 22, 2003, and a preceding Voluntary Cleanup Agreement (VCA) executed on February 22, 2002.

Results of the RI indicate that there are three source areas of subsurface contamination at the Site. The three areas are located under or adjacent to the western half of the older (southern) section of the facility manufacturing building. Source-area impacts are predominantly from chlorinated VOCs in two areas and petroleum solvent compounds and oil in the third area. No other areas or types of soil contamination were identified at the Site. No PCB, pesticide or metal impacts were observed in soil or groundwater. Groundwater impacts by chlorinated VOCs extend off-Site to the southwest.

7.1 SOURCE AREAS

7.1.1 Former Trench Drain Area

This area is located inside the southwest portion of the building and is adjacent to the area of a former trench drain that was located outside the south wall of the building. Interior borings completed in the vicinity of the former trench drain revealed elevated concentrations of the chlorinated volatile organic compound (VOC) trichloroethene (TCE) and related chlorinated VOCs in soil. Based on these findings, 123.4 tons of grossly-impacted soil and associated concrete were removed from a 20 ft. by 25 ft. by 6- to 7- ft. deep excavation inside the building and disposed off-site as part of an Interim Remedial Measure (IRM) performed in December 2003-2004.

Structural considerations prevented the removal of additional soil; however, the RI data indicate that the extent of significant remaining soil contamination is relatively minor. The RI data indicates that the most highly contaminated material was removed and that the contaminated soil that remains in place is found primarily on the south and east sides of the IRM area. Significant contamination was not detected in floor, sidewall, or boring samples collected in and around the north half of the excavation. In the south half of the excavated area, contaminated soil extends 2 to 3 feet below the bottom of the excavation backfill (from 7 to 10 feet below grade). Along the south and southeast walls of the excavation, contaminated soil was left in place where it was inaccessible beneath foundation grade beams; however, RI data indicates that significant levels of contamination do not extend laterally more than a few feet beyond the excavation limits. Borings located 3 to 5 feet to the south of the excavation limits did not encounter significant contamination. At borings located 2 to 5 feet from the east and west sides of the southern end of the IRM area, relatively low levels of contamination are present in soil in the interval from 5 to 6.5 feet below grade. Relatively low concentrations of contaminants were

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

also detected in the interval from 6 to 8 feet below grade at a boring located approximately 20 feet to the east of the southeast corner of the excavated area.

Indications of petroleum impacts, including observations of staining or sheen in the samples, the presence of ethylbenzene, toluene, and xylene, and relatively high levels of tentatively-identified non-target VOCs and SVOCs (TICs), were noted in boring and sidewall and bottom samples from along the south wall and on the west side of the IRM area. These indications correlate fairly strongly with levels of chlorinated VOCs. It is suspected that the presence of petroleum constituents in the IRM area is a consequence of past releases from the Former Trench Drain Area rather than an overlap of impacts from the Petroleum Impacts Area (see below) located to the northeast of the IRM area.

7.1.2 Former Loading Dock Area

This area is located outside the former loading dock area on the west side of the facility. This source area is estimated to cover an area of approximately 45 ft. by 65 ft. and extends approximately 8 feet deep. Contaminants in this area include TCE and related chlorinated VOCs. The most highly contaminated soil is found in the top 2 feet of soil in center of the area. Impacted soil extends less than 20 feet off-site to the west onto the adjacent Five Star Tool Co. (Five Star Tool) parcel at 383 Buell Road.

In the southeast part of the Former Loading Dock Area, the area of chlorinated VOC impacts is overlapped by an adjacent area of impacts from release of petroleum. As described below, an oily product was observed at the water table in monitoring well MW-10, which is located in the area of overlap.

7.1.3 Petroleum Impacts Area

This area is located under the manufacturing building northeast of the Former Trench Drain Area and east of the Former Loading Dock Area. Low levels of petroleum-related VOCs and higher concentrations of tentatively identified VOCs are present. The contamination in this area is believed to have originated from petroleum solvent use. Cutting oil, as evidenced by the presence of total petroleum hydrocarbons (TPH) and tentatively identified semi-volatile organic compounds (SVOCs) and observations of petroleum sheen or, at a few locations, thin horizons of oil-saturated soil, is also present in this area of the facility. An oily light non-aqueous phase liquid (LNAPL) layer was detected at the water table in the groundwater monitoring well (MW-10) located immediately downgradient of this area, but is not present at other Site wells. TCE contamination was detected in soil at a relatively low level at one location (B-19) in the petroleum impacts area.

7.2 DOWNGRADIENT GROUNDWATER PLUME

To investigate the extent of chlorinated VOC impacts in groundwater from the Former Trench Drain and Former Loading Dock areas, a series of monitoring wells were completed to evaluate soil and groundwater downgradient from the site. The RI data indicates that the extent of petroleum and oil impacts is restricted to the Site. However, groundwater impacts from the

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chlorinated VOC contamination at the Site extend off-Site approximately 120 to 200 feet to the southwest from the southwest corner of the Site.

South of the Former Trench Drain Area, chlorinated VOCs that exceed groundwater standards extend downgradient onto the adjacent 385 Buell Road property (former All-Around Travel). Buell is in the process of acquiring title to this property. West of the Former Loading Dock Area, low-level chlorinated VOC impacts were found to extend from the former loading dock source area onto the 383 Buell Road property. A limit to the extent of downgradient impacts was established by the absence of impacts in groundwater observed at monitoring well MW-17, which is located on the 1166 Brooks Avenue property.

7.3 SUB-SLAB SOIL VAPOR

A building survey of the former All-Around Travel building, located south of the subject property at 385 Buell Road, was completed under the VCA work plan. As a result of a leaking underground storage tank beneath the building, this structure has been vacant since March 2003 and indoor and sub-slab air sampling was deferred pending re-occupation of the building. Following completion of their on-going acquisition of the 385 Buell Road property, Buell intends to raze this building and replace it with an asphalt parking surface. Assuming this scenario occurs, it is understood that the sub-slab soil vapor and indoor air sampling program will not be needed.

Three additional building surveys, including indoor and sub-slab air sampling, were conducted in adjacent and/or downgradient structures:

- Comfort Inn, 395 Buell Road, where no further action was required by Buell but a separate BCA was executed by the owners of that property to address separate tetrachloroethene (PCE) impacts.
- Five Star Tool, 383 Buell Road, where Site related chlorinated VOCs were reported beneath the slab and one compound was reported at a trace concentration within the building. The RI results indicate that vapor intrusion is not currently causing an adverse impact on conditions in the Five Star Tool building. However, the concentration of TCE detected in the sub-slab sample is above the NYSDOH guidance value that suggests the need for mitigation to protect against potential vapor intrusion.
- Marketing Squad Inc., 1166 Brooks Avenue, where no Site-related impacts were reported. Low level PCE impacts were reported on the west side of the building (the far side of the building away from the Buell Site); these appear to be unrelated to the Buell Automatics Site.

7.4 CONCLUSIONS

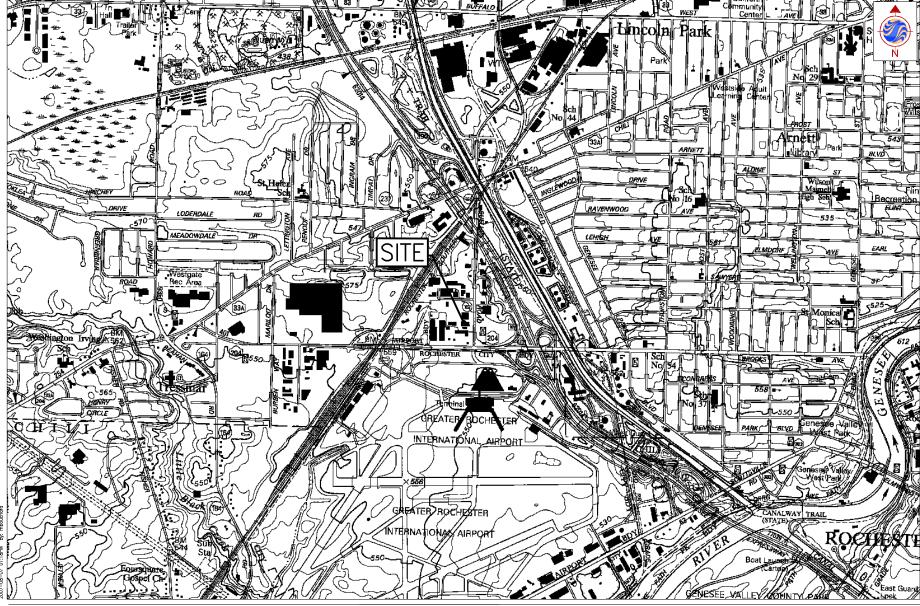
The findings of the RI indicate that soil impacts exceeding applicable standards are present on Site, site-related groundwater impacts exceeding applicable standards are present on and downgradient of the Site, and potential Site-related soil-vapor impacts are present off-Site on

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

the adjacent Five Star Tool property located at 383 Buell Rd. and at the adjacent 385 Buell Rd. property. Remedial measures are needed to address the identified Site-related impacts.

An Alternatives Analysis Report will be prepared to evaluate remedial alternatives for addressing the Site-related impacts. The AA Report will take into account the current industrial use and zoning of the Site, the proposed continued industrial use of the Site, current industrial and commercial uses and future uses in the surrounding area, the pending acquisition of the adjacent downgradient property (385 Buell Road), and the presence of other unrelated off-Site soil and groundwater impacts that exist in the area.

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Stantec Counsulting Services, Inc.

2250 Brighton-Henrietta Townline Rd. Rochester NY U.S.A.

14623-2706

Tel. 585.475.1440 Fax. 585.424.5951

www.stantec.com

Client/Project

BUELL AUTOMATICS REMEDIAL INVESTIGATION Rochester, NY U.S.A.

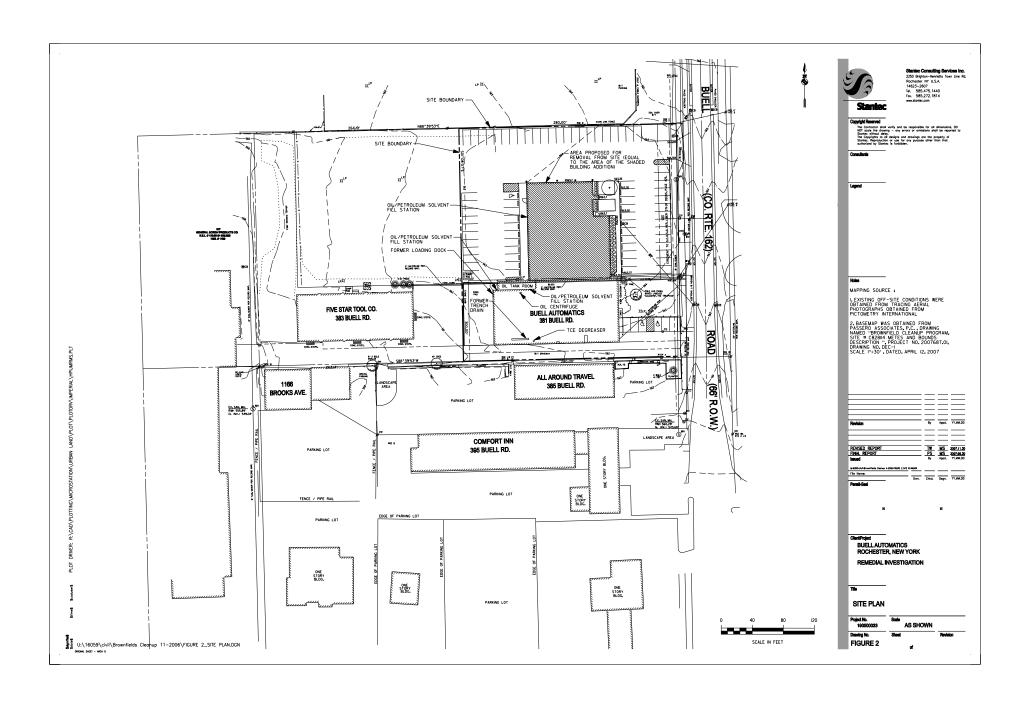
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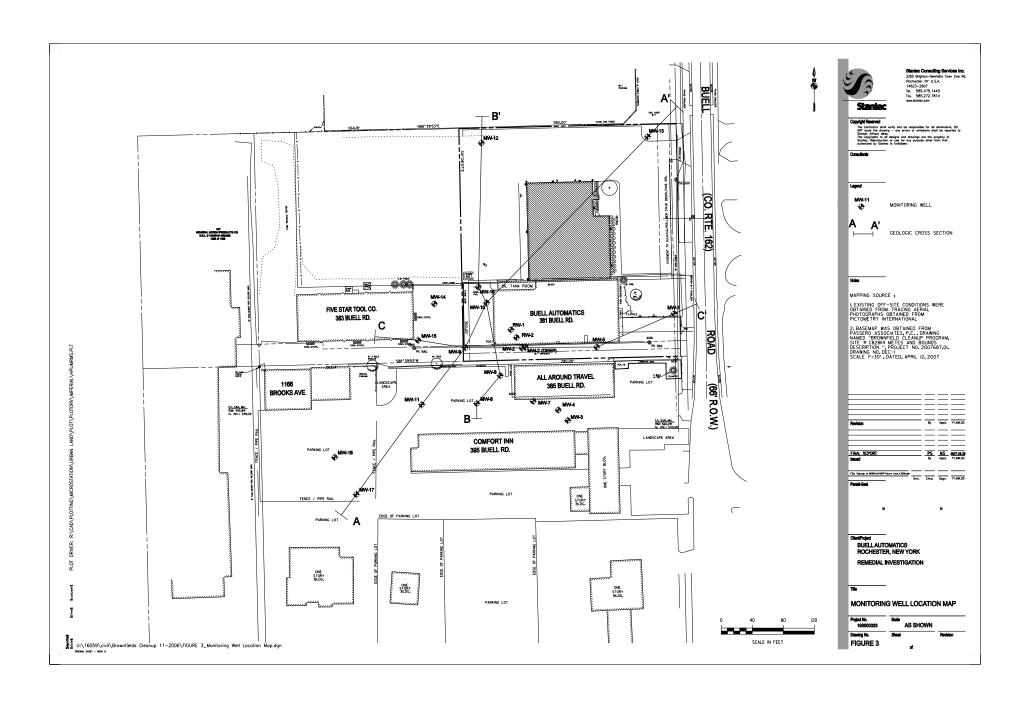
FIGURE 1

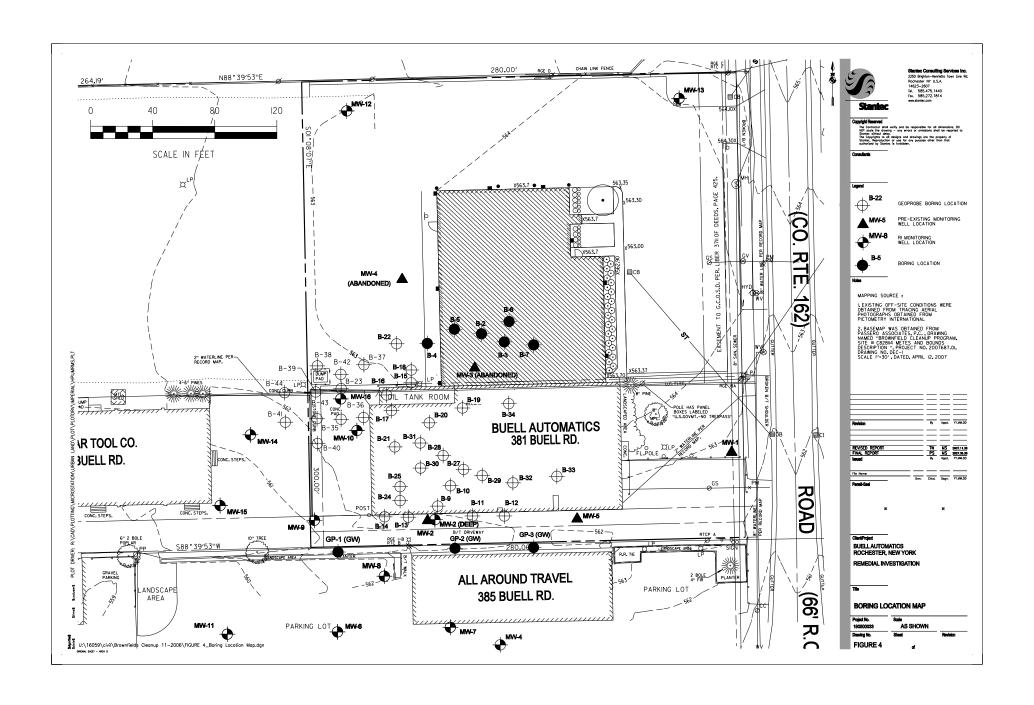
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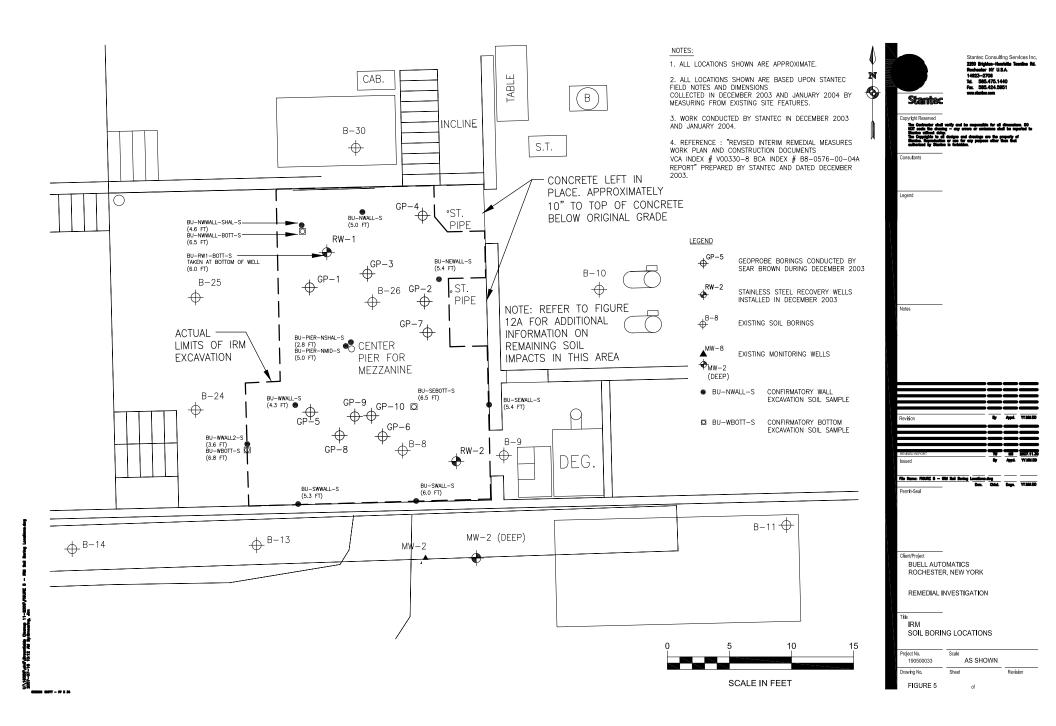
SITE LOCATION MAP

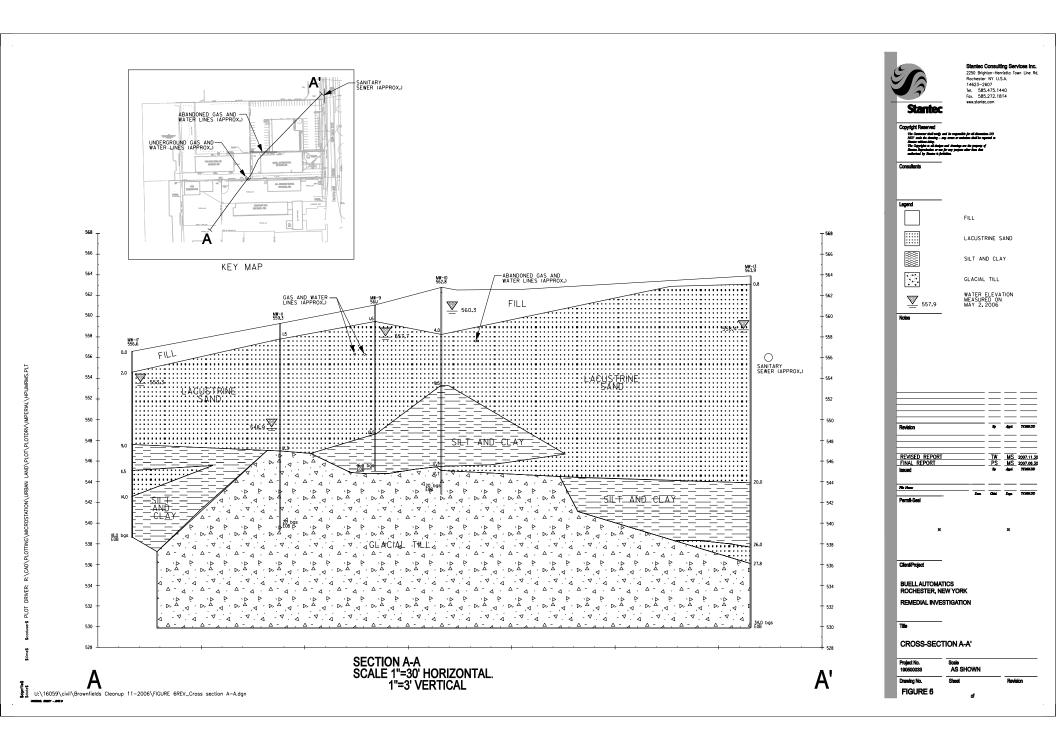
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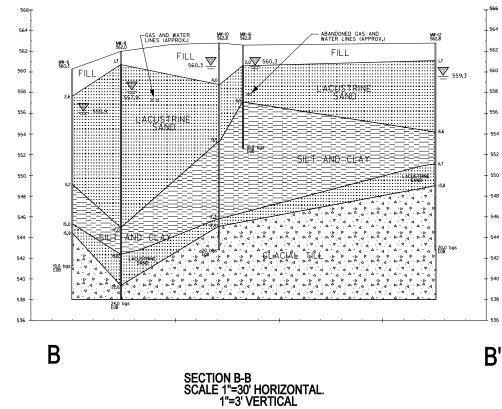








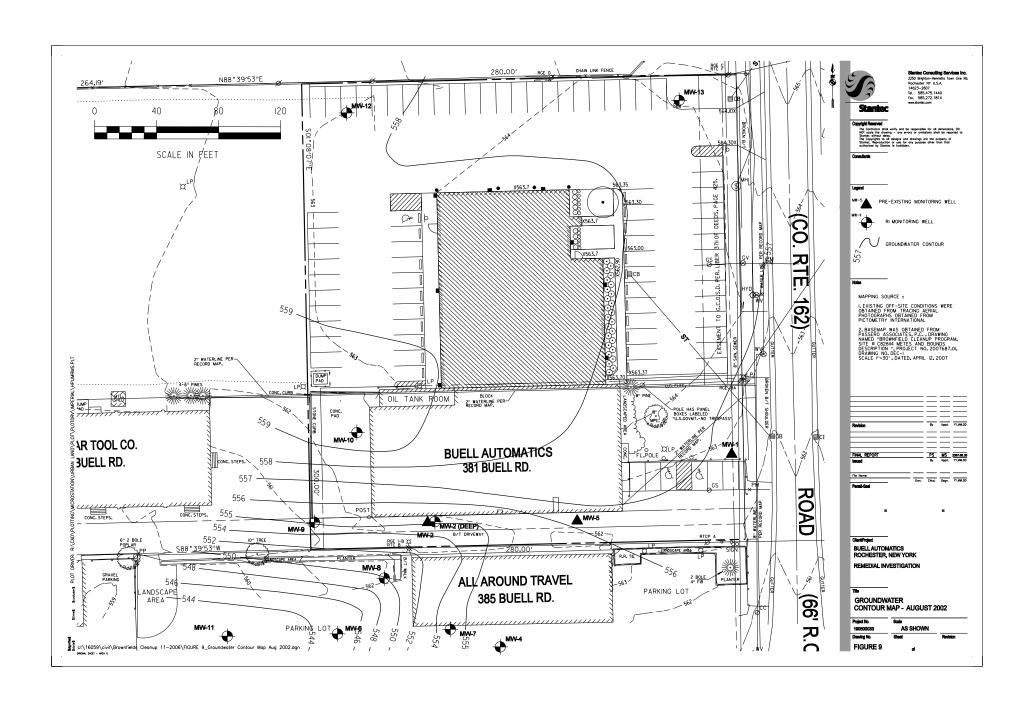
KEY MAP

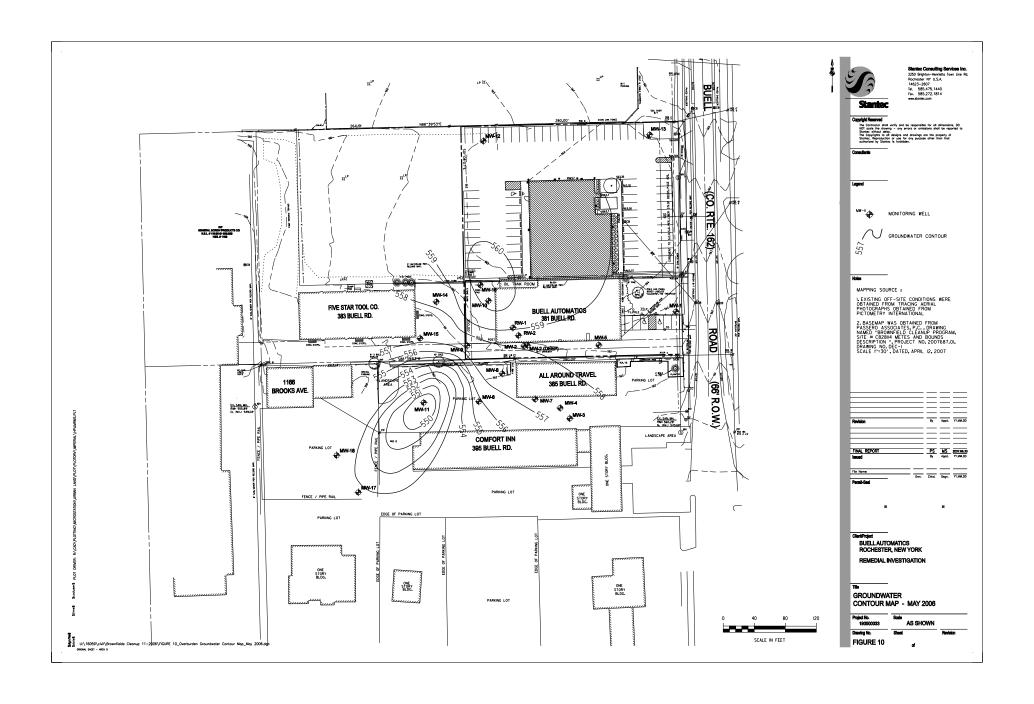


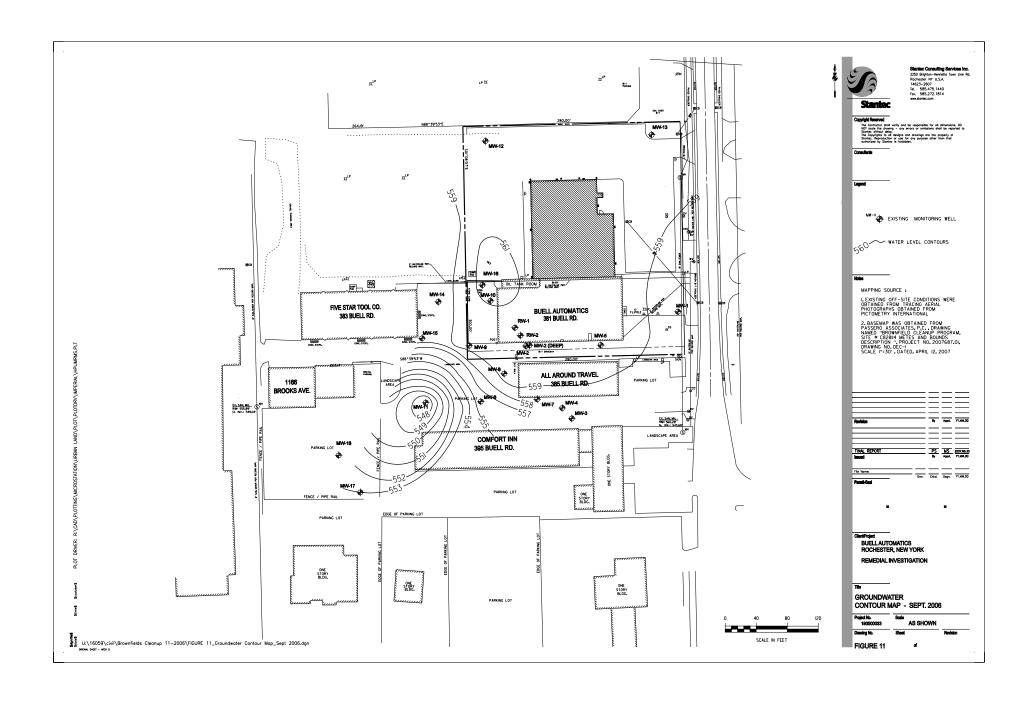


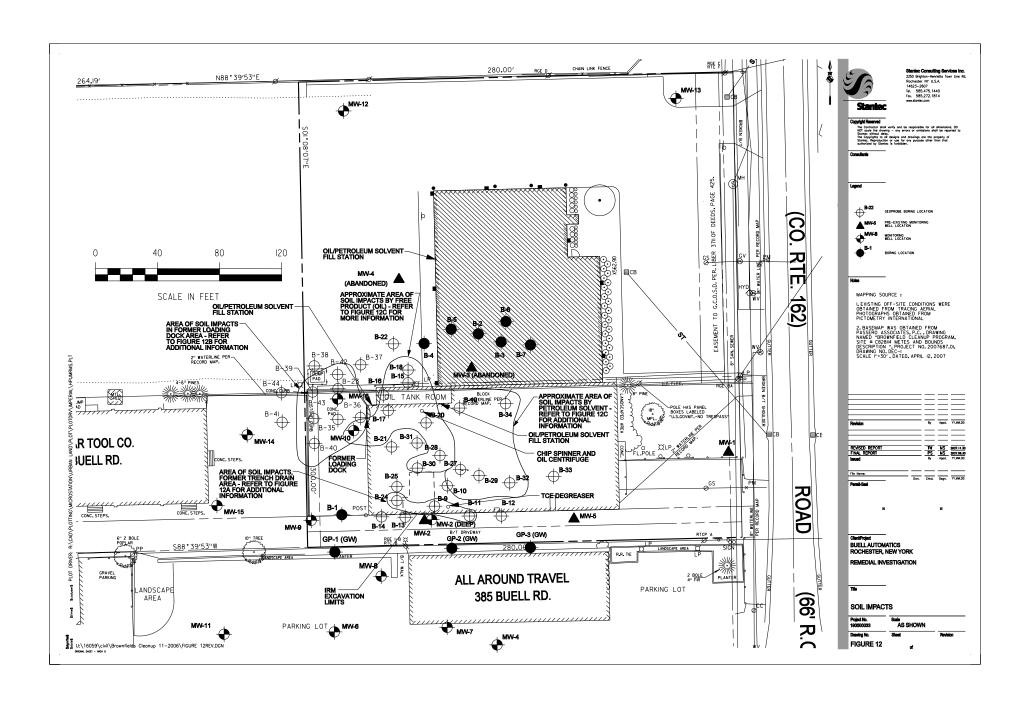
U:\16059\civil\Brownfields Cleanup 11-2006\FIGURE 7REV_Cross section B-B.dgn

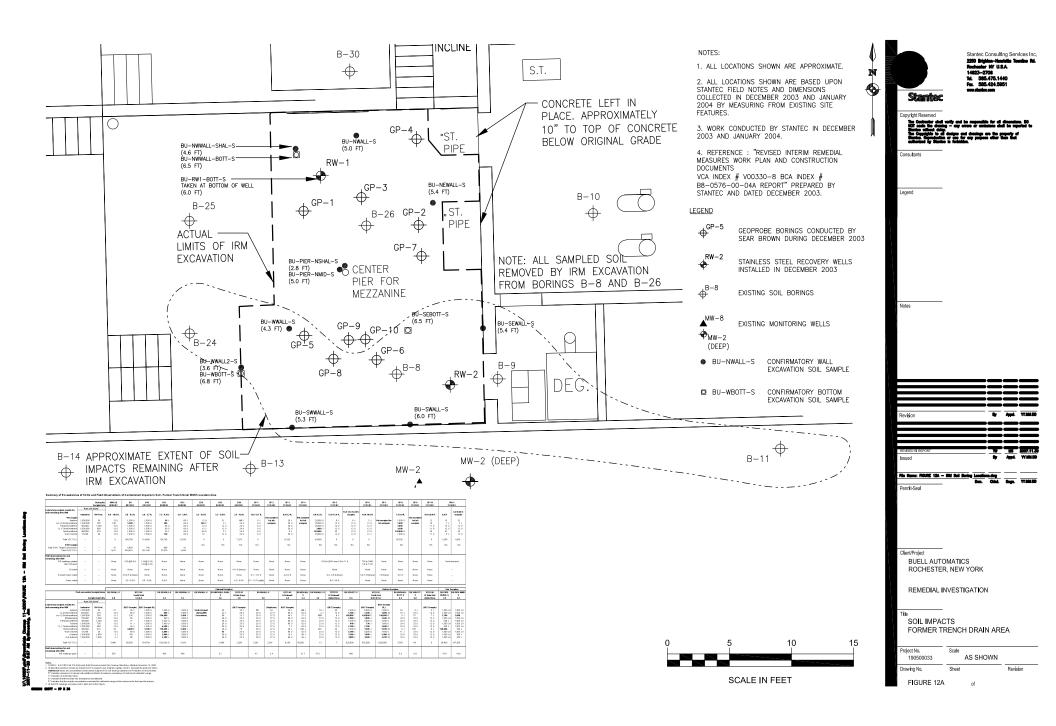
U:\16059\civil\Brownfields Cleanup 11-2006\FIGURE 8REV_Cross section C-C.dgn

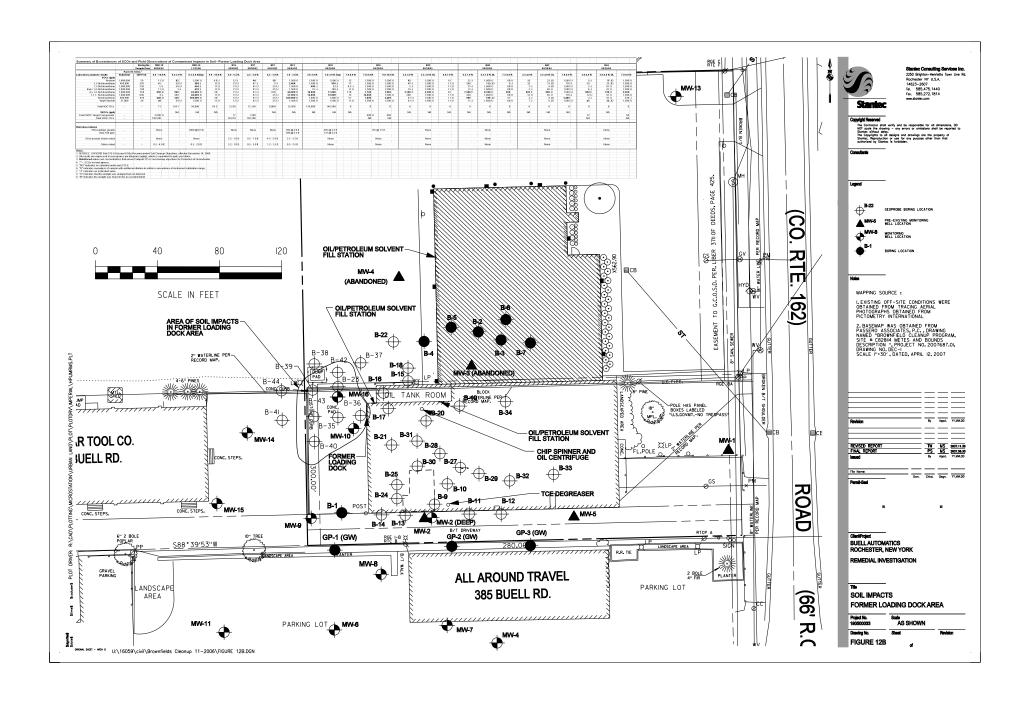


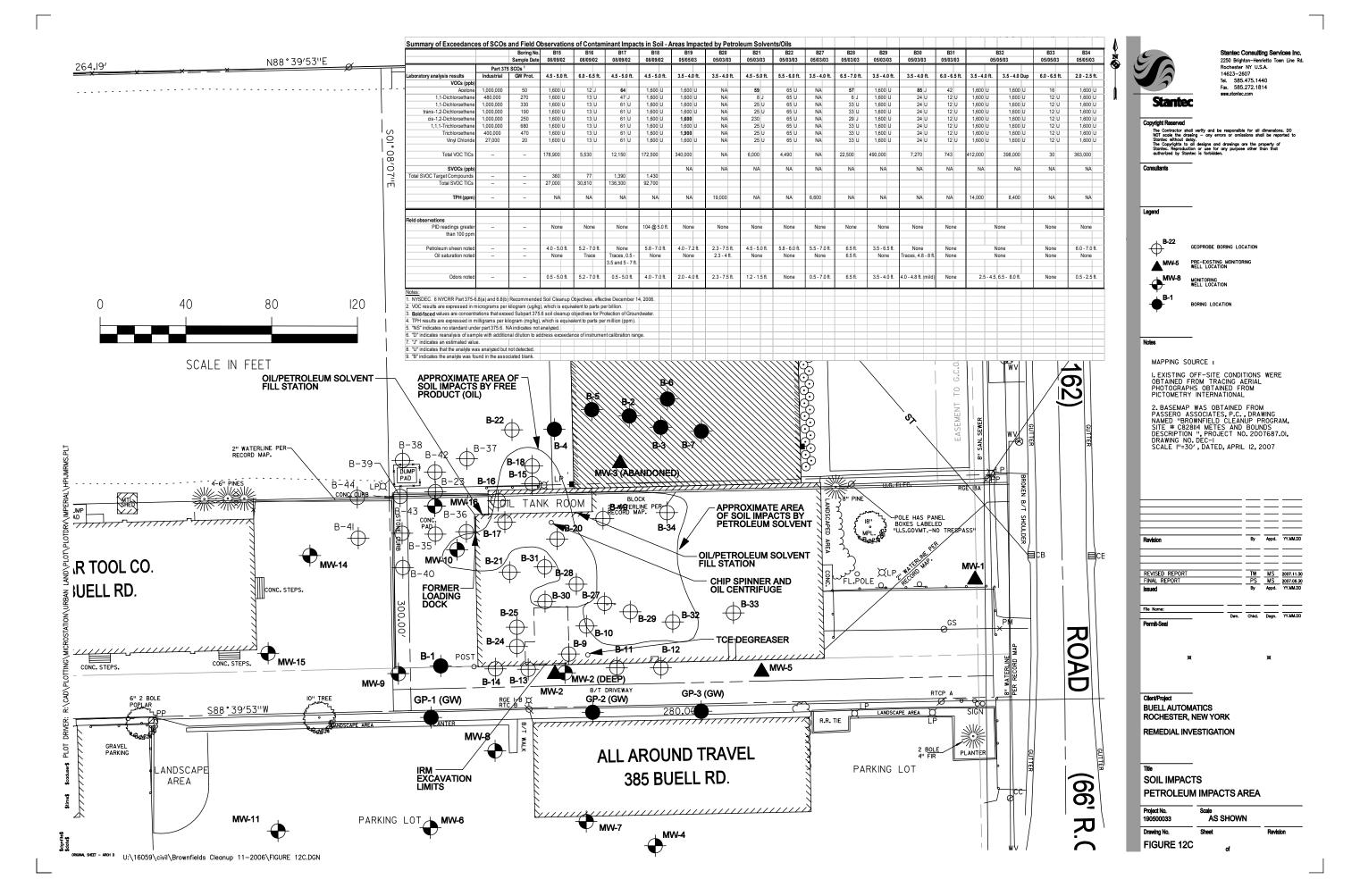


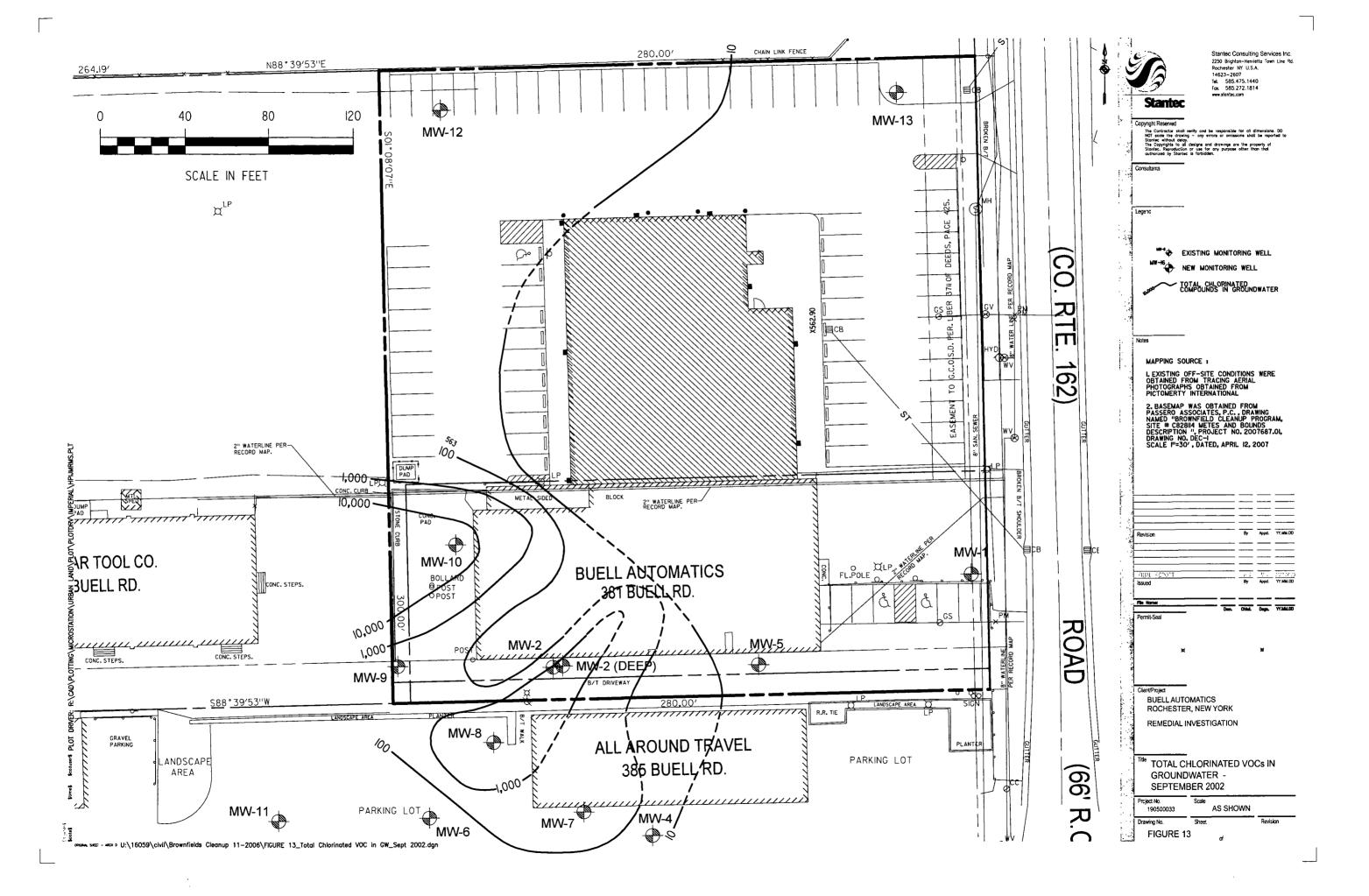


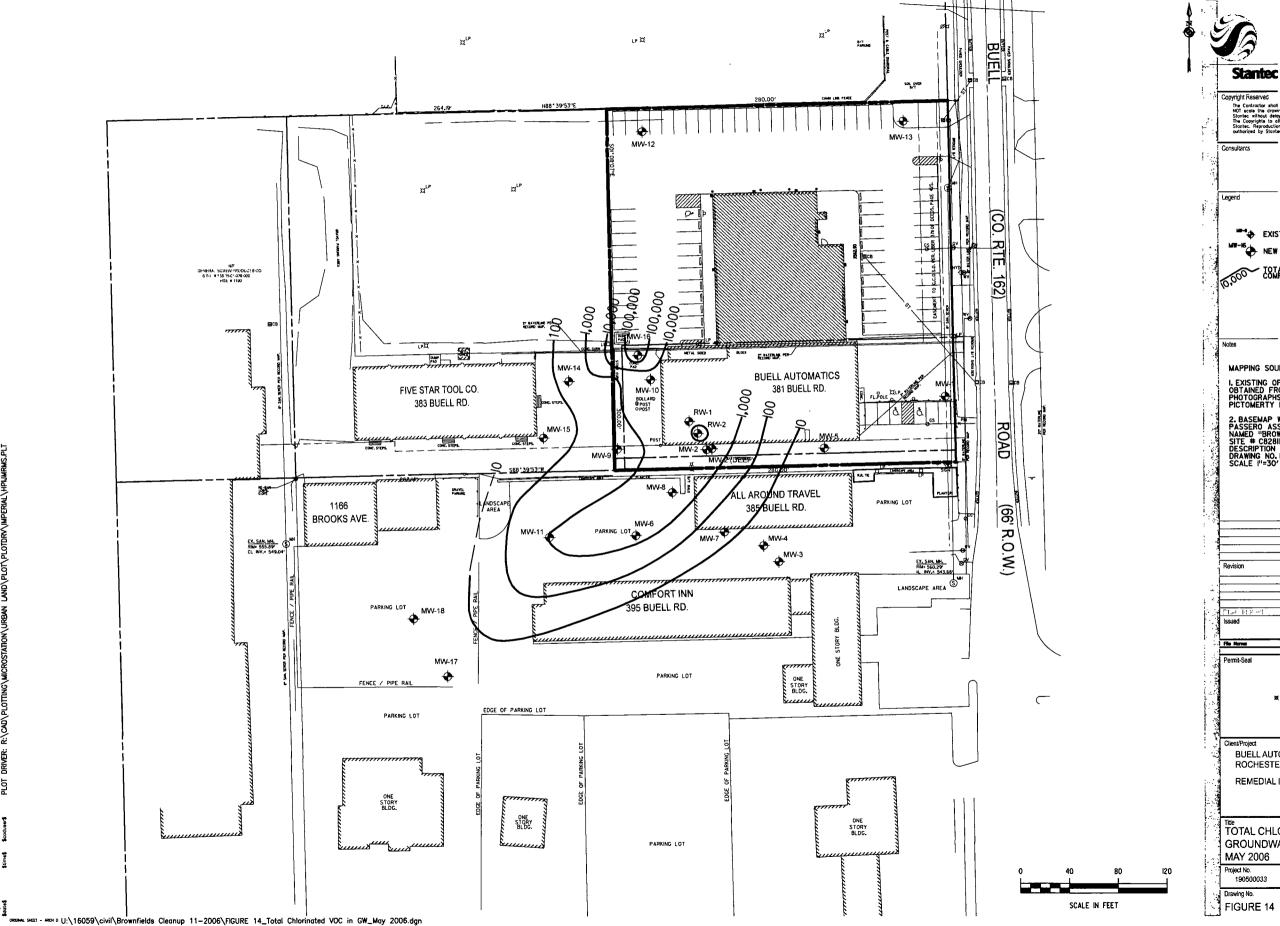














Scatter Constituting Services Inc.
2250 Brighton-Henrietta Town Line Rd.
Rochester NY U.S.A.
14623-2507
Tel. 585.475.1440
Fax. 585.272.1814
www.stontec.com

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The Contractor shall verify and be responsible for all dimensions. DO MOT access the drawing – any errors or omissions shall be reported to Shall be reported to the contract of the contr

EXISTING MONITORING WELL

NEW MONITORING WELL

TOTAL CHLORINATED COMPOUNDS IN GROUNDWATER

MAPPING SOURCE :

I. EXISTING OFF-SITE CONDITIONS WERE OBTAINED FROM TRACING AERIAL PHOTOGRAPHS OBTAINED FROM PICTOMERTY INTERNATIONAL

2. BASEMAP WAS OBTAINED FROM PASSERO ASSOCIATES, P.C., DRAWING NAMED "BROWNFIELD CLEANUP PROGRAM, SITE # C628114 METES AND BOUNDS DESCRIPTION ", PROJECT NO. 2007687.01, DRAWING NO. DEC-1 SCALE I"=30', DATED, APRIL 12, 2007

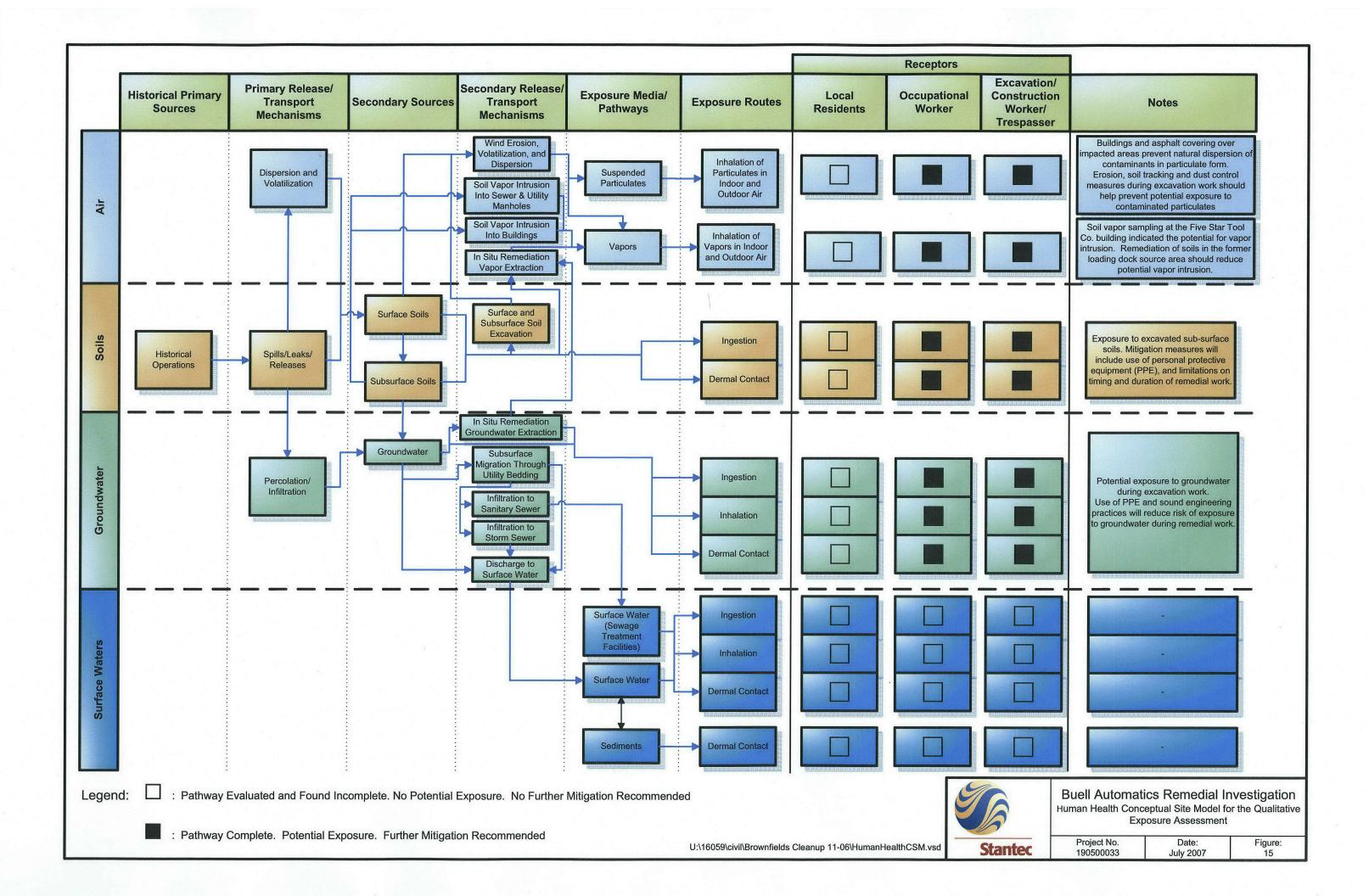
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BUELL AUTOMATICS

ROCHESTER, NEW YORK REMEDIAL INVESTIGATION

TOTAL CHLORINATED VOCs IN GROUNDWATER -MAY 2006

Project No. 190500033 AS SHOWN Drawing No. Sheet



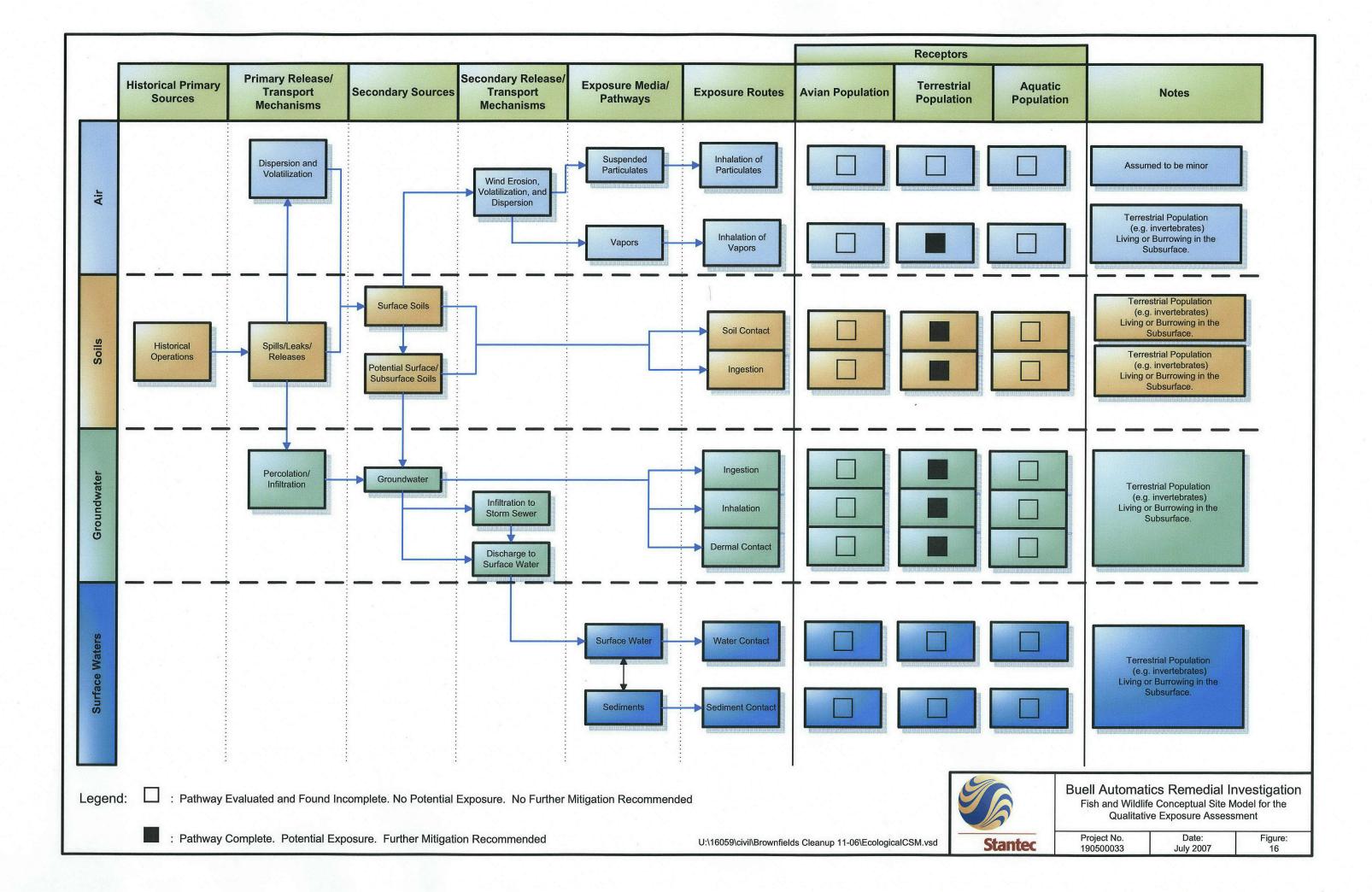


TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

MW-13	MW-12	MW-8	MW-7	Well Installations - May 2002	Borehole
0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18	0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18-20	0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18-20 20-22 22-24	0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18-20	ay 2002	Depth (ft. bgs)
0.0000000000000000000000000000000000000	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 2.8 2.5 18.5	0.0 0.0 0.0 0.0 0.0		PID Re Peak (ppm)
0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		PID Readings Background (ppm)

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

MW-9	MW-6	MW-2D	Well Installations - August 2002	MW-13, cont.	borenoie	
0-2 2-4 4-6 6-8 8-10	0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-16.3 17-19	0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18-20 20-22 22-24 24-26 26-28 29-31 31-33 33-35 35-37	ugust 2002	18-20 20-22 22-24 24-26 26-28 28-30 30-32 32-34	(ft. bgs)	J>>>
0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	177 2.9 0.0 3.5 23.3 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0 0.0 0.0 0.0	(ppm)	
0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0000000000000000000000000000000000000		0.0 0.0 0.0 0.0	(ppm)	PID Readings

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

		PID Readings	adings
Borehole	Depth (ft. bgs)	Peak (ppm)	Background (ppm)
MW-9, cont.	10-12 12-14	0.0	0.0 0.0
	14-16 16-18 18-20	0.0 0.0	0.0 0.0
	20-22 22-24	0.0	0.0
MW-10	0.5-2 2-4 4-6	0.0 0.0	0.0 0.0
	6-8 8-10 10-12 12-14 14-16 16-18 18-20	1.7 13.5 1.7 0.0 0.0 0.0	0.0
MW-11	0-2 2-4 6-8	0.0 0.0 0.0	0.000
	10-12 12-14 14-16 16-18 18-20	0.0 0.0 0.0	0.0 0.0 0.0
Interior and Exterior	Interior and Exterior Geoprobe Borings - August 2002	l lust 2002	
B-8	1.8-2.5 3.2-4.5 5-6.5	3,400 3,000 2,200	0.0 0.0
B-9	1.5-2.5 3.5-4.5 5-6.5	17.0 83 223	0.0 0.0
B-10	1.5-2.5 3-3.7 3.7-4.5 5-6	118 163 91 36	0.0 0.0 0.0
B-11	1.5-2 3.5-4	0.0 10.1	0.0 0.0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

	PID Re	adings
Depth (ft. bgs)	Peak (ppm)	Background (ppm)
7 .5-6 5.5-6	37	0.0
7.3-6 9.5-10 11.5-12	0.0 3.5	0.0
1.8-2 3.5-4	0.0	0.0
4.8-5.1 7.5-8 10.5-11	0.0 0.0	0.0
1.5-2 3-3.8 4 5-5	0.0 15.0 0.0	0.0
6.5-7 9.5-10	0.0	0.0
1.5-2 3.5-4 7.5-8 9.5-10	0.0 0.0 0.0	0.0 0.0 0.0
3-3.5 3.5.4 4.5-5 6.5-7	1.2 54 75 3.8	0.0 0.0 0.0
2.5-3 6-6.5 7.5-8	2.5 3.1 2.5	0.0 0.0 0.0
1 5-2	10 8	0
1.5-2 3.5-4 4.5-5 6.5-7	10.8 12.7 18.4 14.6	0.0 0.0 0.0
0.0	<u>.</u>	Ċ
3.5-4 4 ภ-ภ	4.1 104	0.0
6.5-7 9.2-10	23 0.0	0.0
February 2003		
1.5-2	0.0	0.0
	Depth (ft. bgs) 5.5-6 7.5-8 9.5-10 11.5-12 1.8-2 3.5-4 4.8-5.1 7.5-8 10.5-11 1.5-2 3-3.8 4.5-5 6.5-7 9.5-10 1.5-2 3.5-4 4.5-5 6.5-7 9.5-10 3.5-4 4.5-5 6.5-7 8.5-9 3.5-4 4.5-5 6.5-7 9.2-10 3.5-4 1.5-2 3.5-4 1.5-2 3.5-4 1.5-2 3.5-4 1.5-5 6.5-7 9.2-10 3.5-4 1.5-5 6.5-7 9.2-10	Peak (ppm) 37 88 42 10 0.0 11 0.0 0.1 12 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

Borehole B-25, cont. B-26	Depth (ft. bgs) 5.5-6 7.5-8 1.5-2 2.5-3 3.5-4 5-6 7-8	PID Readings Peak Bac (ppm) 1.3 0.9 600 101 60 16.8 12.2	
B-27 B-28	3.5-4 6-6.5 7.5-8 9.5-10 11.5-12 3.5-4 6.5-7 9.5-10	4.0 1.3 3.1 0.9 0.4 0.9 1.3	
B-29	3.5.4 5.5-6 7.5-8	1.8 0.4	
B-30	3.5-4.0 4-4.8 7.5-8 11.5-12	1.3 0.9 2.2 0.4	
B-31	2.5-3 6-6.5 7.5-8	0.9 2.2 0.9	
B-32	3.5.4 6-6.5 7.5-8 11.5-12 14.5-15	9.9 8.1 4.0 0.9 0.9	
B-33	1.5-2 3.5-4 6-6.5 7.5-8 9.5-10 11-11.5	1.9 1.3 0.9 0.9 0.9	
B-34	2-2.5	4.5	

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

GP-7	GP-6	GP-5	GP-4	GP-3	GP-2	GP-1	IRM Geopobe Borings - December 2003	B-34, cont.	Borehole
6-6.5 9.5-10 10-10.5	6-6.5 7-7.5 9.5-10 10-10.5 12-12.5	0.6 - 2.6 5-6 6-6.6 9-9.5 10-10.6 12-12.6 12.6-14.6	0.8-4.8 4.8-8.5	1.3-2.3 2.3-3.3 3.3-5.3 5.3-8.3 8.3-9.3 9.3-12	1-2.5 2.5-5 5-7 7-9 9-10.5 10.5-12.7	1.7-4.9 4.9-5.7 5.7-7.7 7.7-9.7 9.7-11 11-13.7	zs - December 2003	3.5-4 6-7 7.5-8	Depth (ft. bgs)
1.5 42 1.7	755 2,480 1.7 22 6	0.0 193 29 8,000 945 4.0 3.0	2.0 2.0	250 33 19.0 9.0 13.0 2.0	17.0 22 30 14.0 10.0 3.0	7.0 14.0 24 15.0 5.0		1.3 1.8	PID Re Peak (ppm)
0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0		0.0 0.0	PID Readings Background (ppm)

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Buell Automatics RI
Rochester, NY

Borehole	Depth	Peak	PID Readings Background
GP-8	7.5-8 10-10.5	77 22	0.0
GP-9	9.5-10 12-12.5	0.1 0.0	0.0 0.0
GP-10	19.8-20 23-24	0.0	0.0 0.0
B-23 Geoprobe Borir	B-23 Geoprobe Borings - September 2005		
B-35	2-3 3-4 7-8	405 115 37 18	0.0 0.0 0.0
B-36	5-6 7-8 9-10	37 125 35	0.0 0.0 0.0
B-37	2-3 3-4 7-8	0.0 4.5 4.1	0.0 0.0 0.0
B-38	3-3.5 3.5-4 5-6	0.0	0.0 0.0 0.0
B-39	2.5-3 3.5-4 6-7	31 23 13.8	0.0 0.0 0.0
B-40	2-2.5 3.5-4 6.5-7 7.5-8	9.4 7.8 50 22	0.0 0.0 0.0
B-41	1.9-2.3 3.5-4 7.5-8	5.8 5.8	0.0 0.0 0.0
B-42	1.5-2 3.5-4 6-7 7-8	8.6 7.6 24 93	0.0 0.0 0.0
B-43	2-3	2.4	0.0

SUMMARY OF PID HEADSPACE READINGS (ppm) TABLE 1

		PID Re	PID Readings
Borehole	Depth (ft. bgs)	Peak (ppm)	Background (ppm)
B-43, cont.	3-4 7-8	36 36	0.0
B-44	2-2.5 3-4 7-8	0.0 0.0 0.8	0.0 0.0 0.0
Well Installations - N	November 2005		
MW-16	0.5-2 2-4 4-6 6-8	1,600 39 23 88	0.0 0.0 0.0
MW-17	0.5-2 2-4 4-6 6-8	0.0 0.0 0.4 3.4	0.0 0.0
	8-10 10-12 12-14 14-16 16-18	1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0
MW-18	0-2 2-4 4-6 6-8 8-10 10-12 12-14 14-16 16-18 18-20 20-22	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0

- Notes:
 1. ft. bgs = feet below ground surface.
 2. ppm = parts per million.
 3. PID data collected with Thermo Env Model 580B equipped with an 11.7 eV lamp.

TABLE 2 SOIL SAMPLE SUMMARY Buell Automatics RI Rochester, NY

BL BL	BU BU	BU		BU-B16	BU	BU	BU	BU	BU	BU	BU-	BU-I	BU-	BU-I	August 2002 BU-MW2D-S	BU->	BU-I	BU-MW8	BU-	BU->	BU-	May 2002	Sar
	BU-B9-S	BU-B8-S	BU-B17-S	BU-B16-S-MS/MSD	BU-B15-S	BU-B18-S	BU-B14-S	BU-B13-S	BU-B12-S	BU-B11-S	BU-MW6-S	BU-MW11-S	BU-MW9-S	BU-MW10-S	<u>02</u> ЛW2D-S	BU-XX-S-DU	BU-MW12-S	BU-MW8-S-MS/MSD	BU-MW7-S	BU-XX-S-DU	BU-MW13-S		Sample ID
,	B-9	B-8	B-17	B-16	B-15	B-18	B-14	B-13	B-12	B-11	MW-6	MW-11	MW-9	MW-10	MW-2D	MW-12	MW-12	MW-8	MW-7	MW-13	MW-13		Location
	8/12/02	8/12/02	8/9/02	8/9/02	8/9/02	8/8/02	8/8/02	8/8/02	8/8/02	8/8/02	8/8/02	8/7/02	8/6/02	8/5/02	8/5/02	5/22/02	5/22/02	5/21/02	5/21/02	5/20/02	5/20/02		Date
	5 - 6.5	1.8 - 2.5	4.5 - 5	6 - 6.5	4.5 - 5	4.5 - 5	3.5 - 4	3 - 3.8	4 - 5.3	7.5 - 8	15 - 15.9	10 - 12	4 - 6	2 - 4 8 - 10	8 - 10	12 - 14	12 - 14	16 - 18 18 - 20	16 - 18 14 - 16	10 - 12	6 - 8 8 - 10 10 - 12		Depth (ft. bgs)
	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		*		TCL VOCs by ASP 95-1
																							TCL VOCs by OLM 4.2
	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		×		TCL SVOCs by ASP 95-2
																							TCL SVOCs by OLM 4.2
1			×	×	×	×	×							×				×		×	×		TCL Pest/PCBs by ASP 95-3
{			×			×	×	×						×		×	×	*	×		×		TAL Metals
																							TPH by DOH 310.13

TABLE 2 SOIL SAMPLE SUMMARY Buell Automatics RI Rochester, NY

BU-B34-S	BU-B33-S	BU-DUP-S	BU-B32-S	BU-B31-S-MS/MSD	BU-B30-S	BU-29-S	BU-B28-S	BU-B27-S	BU-B26-S	BU-B25-S	BU-B24-S	BU-B23-S	BU-B22-S	BU-B21-S	BU-B20-S	<u>May 2003</u> BU-B19-S	BU-S-DUP	BU-MW15-S	February 2003 BU-MW14-S-MS/MSD		Sample ID
B-34	B-33	B-32	B-32	B-31	B-30	B-29	B-28	B-27	B-26	B-25	B-24	B-23	B-22	B-21	B-20	B-19	MW-15	MW-15	MW-14		Location
5/5/03	5/5/03	5/5/03	5/5/03	5/5/03	5/3/03	5/3/03	5/3/03	5/3/03	5/3/03	5/3/03	5/3/03	5/3/03	5/5/03	5/3/03	5/5/03	5/5/03	2/26/03	2/26/03	2/26/03		Date
2-2.5	6-6.5	3.5-4	3.5-4	6-6.5	3.5-4	3.5-4	6.5-7	3.5-4	2.5-3	5.5-6	5.5-6	1-2	5.5-6	4.5-5	3.5-4	3.5-4	11.5-12	11.5-12	15.2-16	(ft. bgs)	Depth
×	×	×	×	×	×	×	×		×	×	×	×	×	×		×	×	×	×		L VOCs by P 95-1
																					L VOCs by M 4.2
																					L SVOCs ASP 95-2
																					L SVOCs OLM 4.2
																					L st/PCBs by P 95-3
																				TA	L Metals
		×	×					×							×						H by DOH

TABLE 2 SOIL SAMPLE SUMMARY Buell Automatics RI Rochester, NY

Sample ID	Location	Date	Depth (ft. bgs)	TCL VOCs by ASP 95-1	TCL VOCs by OLM 4.2	TCL SVOCs by ASP 95-2	TCL SVOCs by OLM 4.2	TCL Pest/PCBs by ASP 95-3	TAL Metals	TPH by DOH 310.13
<u>September 2005</u> BU-B35-S	B-35	9/20/05	2-3		×					
BU-XX-S	B-35	9/20/05	2-3		×					
BU-B35-S	B-35	9/20/05	7-8		×					
BU-B36-S	B-36	9/20/05	7-8		×		×			
BU-B36-S	B-36	9/20/05	9-10		×		×			
BU-B37-S	B-37	9/20/05	3-4		×					
BU-B39-S	B-39	9/20/05	2.5-3		×					
BU-B39-S	B-39	9/20/05	6-7		×					
BU-B40-S	B-40	9/20/05	6.5-7		×					
BU-B40-S	B-40	9/20/05	7.5-8		×					
BU-B41-S	B-41	9/20/05	3.5-4		×					
BU-B42-S	B-42	9/20/05	3.5-4		×					
BU-B42-S	B-42	9/20/05	7-8		×					
BU-B43-S	B-43	9/20/05	3-4		×		×			
BU-B43-S	B-43	9/20/05	7-8		×		×			
November 2005 MW16 (0.2-2)	MW-16	11/22/05	0.5-2		×					
MW-DUP	MW-16	11/22/05	0.5-2		×					
MW16 (9-10)	MW-16	11/22/05	9-10		×					
MW17 (7.5-8)	MW-17	11/22/05	7.5-8		×					
MW18 (18-20)	MW-18	11/21/05	18-20		×					

TABLE 3 WELL COMPLETION SUMMARY

Buell Automatics RI Rochester, NY

Well Designation	Completion Date	Horiz. Co			(ft. AMSL) /D 29)	Bentonite Seal	Sandpack Interval	Screened Interval	Lower Seal	Total Depth	,	AD 83 UTM Zone in meters)		(ft. AMSL) /D 88)
		Northing	Easting	Ground	Reference	(ft. bgs)	(ft. bgs)	(ft. bgs)	(ft. bgs)	(ft. bgs)	Northing	Easting	Ground	Reference
Phase II Well In														
MW-1	5/26/99	1142537.57	744790.33	562.9	562.7	8.0-10.0	10.0-22.0	12.0-22.0		22.0	283156.900	4778940.184	562.31	562.13
MW-2	5/26/99	1142493.48	744594.42	561.9	561.71	7.0-9.0	9.0-21.0	11.0-21.0		21.0	283096.656	4778929.309	561.30	561.14
MW-5	5/26/99	1142494.61	744690.77	562.1	561.76	7.0-9.0	9.0-21.0	11.5-21.5		21.5	283126.017	4778928.397	561.55	561.19
RI Well Installat	ions_													
MW-2D	8/8/02	1142494.16	744598.95	562.0	561.56	20.8 - 31.3	31.3 - 42.3	32.3 - 42.3		42.3	283098.045	4778929.456	561.42	560.99
MW-6	8/8/02	1142421.82	744536.23	560.3	559.78	2.0-4.0	4.0-19.0	5.0-19.0		19.0	283077.999	4778908.241	559.76	559.21
MW-7	5/21/02	1142424.79	744608.88	561.4	560.83	2.0-4.0	4.0-20.0	5.0-20.0		20.0	283100.165	4778908.199	560.79	560.26
MW-8	5/21/02	1142457.74	744566.35	562.0	561.48	2.0-4.0	4.0-19.5	5.0-19.0	19.5 - 24.0	24.0	283087.641	4778918.789	561.39	560.91
MW-9	8/6/02	1142493.78	744521.28	561.1	560.36	2.0-4.0	4.0-16.0	5.0 - 15.0		16.0	283074.383	4778930.353	560.50	559.79
MW-10	8/5/02	1142551.60	744548.68	562.8	562.37	2.0-4.0	4.0-20.0	5.0-20.0		20.0	283083.482	4778947.607	562.18	561.80
MW-11	8/7/02	1142420.37	744465.16	559.3	559.05	2.0-4.0	4.0-20.0	5.0-20.0		20.0	283056.334	4778908.726	558.75	558.48
MW-12	5/22/02	1142757.58	744542.13	562.8	562.3	2.0-4.0	4.0-20.0	5.0-20.0		20.0	283084.172	4779010.429	562.27	561.73
MW-13	5/20/02	1142765.66	744756.32	563.9	563.42	2.0-4.0	4.0-21.0	5.2-20.2	21.0 - 34.0	34.0	283149.514	4779010.098	563.34	562.85
MW-14	2/25/03	1142550.30	744481.45	561.2	560.9	1.5 - 3.0	3.0 - 13.0	4.0 - 13.0	13.0 - 16.0	16.0	283062.989	4778948.087	560.61	560.33
MW-15	2/25/03	1142501.30	744461.37	560.4	560.1	1.5 - 3.0	3.0 - 10.0	4.0 - 10.0	10.0 - 12.0	12.0	283056.234	4778933.424	559.86	559.53
MW-16	11/22/05	1142571.98	744538.31	562.60	561.97	1.0-3.0	3.0-8.0	4.0-8.0	8.0-10.0	10.0	283080.589	4778953.949	562.03	561.40
MW-17	11/22/05	1142304.73	744380.94	556.60	556.16	3.0-6.0	6.0-18.0	7.0-17.0		18.0	283029.175	4778874.602	556.03	555.59
MW-18	11/22/05	1142352.47	744353.02	557.00	556.48	10.6-13.2	13.2-20.5	15.5-20.5	20.5-21.0	21.0	283021.294	4778889.506	556.43	555.91
RW-1	12/30/03	NS	NS	563.7	563.27	0.5-1.5	1.5-12.0	2.0-6.0		12.0	NS	NS	563.13	562.70
RW-2	12/30/03	NS	NS	563.8	563.25	0.5-1.0	1.0-12.0	1.5-6.5		12.0	NS	NS	563.23	562.68

Notes:

- NS = Not Surveyed
 the bgs = all depths feet below ground surface.
- 3. All wells completed with flush-mount protective casings.

TABLE 4 WATER LEVEL SUMMARY

Monitoring Well	Ground Elevation	Reference Elevation	Water		Water		Water	20, 2002 Level	Water	31, 2003 Level	Water	13, 2004 Level	Water	24, 2004 Level	Water	2, 2006 r Level	Water	er 15, 2006 Level
			(ft. btoc)	(elevation)	(ft. btoc)	(elevation)	(ft. btoc)	(elevation)	(ft. btoc)	(elevation)	(ft. btoc)	(elevation)	(ft. btoc)	(elevation)	(ft. btoc)	(elevation)	(ft. btoc)	(elevation)
MW-1	563.9	562.70	3.32	559.38	3.86	558.84	5.79	556.91	3.08	559.62					4.38	558.32	4.13	558.57
MW-2	561.9	561.71	2.17	559.54	3.59	558.12	6.31	555.40	2.26	559.45					3.68	558.03	1.98	559.73
MW-2 D	562.0	561.56					dry		dry								dry	
MW-5	562.1	561.76	1.69	560.07	2.58	559.18	4.77	556.99	1.81	559.95	3.05	558.71			3.21	558.55	2.16	559.60
MW-6	560.3	559.78					15.40	544.38	10.30	549.48			10.01	549.77	3.91	555.87	3.57	556.21
MW-7	561.4	560.83	2.08	558.75	3.24	557.59	5.88	554.95	2.21	558.62			4.45	556.38	3.45	557.38	2.02	558.81
MW-8	562.0	561.48	6.88	554.60	7.21	554.27	11.05	550.43	3.24	558.24	4.92	556.56			3.59	557.89	2.31	559.17
MW-9	561.1	560.36					5.26	555.10	0.96	559.40	4.08	556.28			2.65	557.71	0.94	559.42
MW-10	562.8	562.37					2.98	559.39	1.55 *	560.82					2.11*	560.26	1.26*	561.11
MW-11	559.3	559.05					15.99	543.06	10.21	548.84			15.33	543.72	10.15	548.90	11.96	547.09
MW-12	562.8	562.30	1.60	560.70	2.28	560.02	4.11	558.19	1.50	560.80					2.99	559.31	2.49	559.81
MW-13	563.9	563.42	3.30	560.12	4.05	559.37	5.91	557.51	4.02	559.40					4.99	558.43	3.88	559.54
MW-14	561.3	560.90							1.16	559.74	2.66	558.24	2.73	558.17	2.85	558.05	2.88	558.02
MW-15	560.5	560.10							2.97	557.13	3.57	556.53	4.28	555.82	2.45	557.65	1.63	558.47
MW-16	562.6	561.97													1.66	560.31	0.34	561.63
MW-17	556.6	556.16													2.82	553.34	3.13	553.03
MW-18	556.6	556.48													dry		dry	
RW-1	563.7	563.27									4.96	558.31			4.21	559.06		
RW-2	563.8	563.25									5.74	557.51			5.20	558.05		

Notes:

1. Reference elevation based upon vertical datum NGVD 29.

2. ft. btoc = feet below top of casing.

3. * = oily floating product

4. (---) = not measured.

TABLE 5 FIELD PARAMETER SUMMARY

MW-7	MW-6	MW-5	MW-4 (All-Around)	MW-3 (All-Around)		MW-2	MW-1	Well
09/11/02	09/11/02 08/24/04 05/01/06	09/10/02 09/12/02 (low flow)	08/24/04	08/24/04 05/01/06	09/12/02 (low flow) 05/01/06	09/10/02	09/11/02 09/12/02	Date
11:22 11:29 11:34 11:14 11:20 11:26	10:47 10:51 10:55 10:59 12:00 12:04 12:08 -	12:53 13:00 13:08 12:12 12:17 12:22	10:26 10:38 10:50	9:46 9:58 10:10 - 12:00	11:49 11:02 11:07 11:12 - - 15:15	11:38 11:44	13:28 13:32 9:25	Time
2.0 4.0 6.0 2.4 4.8 7.2	0.1 0.3 0.5 0.7 1 1 2 2.4 4.8	2.0 4.0 6.0 141 ml/min 150 ml/min 141 ml/min	0.2 0.4 0.6	0.1 0.2 0.3 0.2 0.4 dry	4.2 126 ml/min 126 ml/min 141 ml/min 2.2 4.4 6.6	1.4 2.8	2.4 3.6 0.3	Volume (gal)
6.85 6.80 6.73 6.67 6.68 6.68	7.36 7.14 7.07 7.17 6.95 9.84 6.84 7.07 7.19	6.93 6.92 6.90 6.75 6.70 6.65	6.50 6.63 6.63	6.08 6.28 6.33 7.05 6.97	6.96 6.96 6.85 6.84 7.08 7.04 6.92	7.19 6.95	7.24 1,404 -dry after 1.5 volumes 6.92 1,430	pH (SU)
1,153 1,256 1,238 1,069 1,119 1,247	1,038 1,030 1,033 1,034 821 821 832 836 2,048 2,176	1,856 1,803 1,824 1,788 1,792 1,776	1,306 1,120 1,123	615 778 788 2,352 2,298	1,428 1,351 1,313 1,310 1,971 2,038 2,098	1,372 1,445	1,404 5 volumes 1,430	Conductivity (umhos/cm)
19.9 18.8 18.9 18.1 17.5 16.7	23.0 22.4 22.2 22.2 21.5 20.9 20.9 14.6 12.9	19.2 18.1 18.6 19.7 19.7 19.9	20.7 19.9 19.7	19.4 19.7 20.2 11.8 11.7	18.2 19.2 19.2 19.5 15.7 13.8	19.4 18.3	17.2 16.0	Temperature (°C)
152 >200 192 - - -	>200 >200 >200 >200 >200 >200 >200 >1000 >1000	>200 >200 >200 >200 34.1 40.5 21.7	>200 >200 >200	>200 >200 >200 >200 >1000 >1000	>200 13.1 12.3 10.5 187 479 >1000	>200 >200	>200	Turbidity (NT∪)

TABLE 5 FIELD PARAMETER SUMMARY

Well	Date	Time	Volume (gal)	pH (S∪)	Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-7	05/01/06	- - 14:40	2.5 5.0 7.5	6.92 6.95		14.3 13.6 12.4	
NAV 0	00/40/00	2.00	<u>,</u>	7	71 20	3	/ 22 25 26 26 27
NI W	09/10/02	14:13	. 2 - 1 4 a	8.10 8.14	544 544	19.6 19.7	98.0 98.0
	09/12/02 (low flow)	13:13	114 ml/min 120 ml/min	8.09 8.07	554 554	20.7 20.7	6.7 3.2
		i		1 (· !	
	05/01/06	13:00	2.4 4.8 7.2	7.25 7.36 7.58	1,538 1,789 1,781	14.0 13.6 13.2	261 337 >1000
MW-9	09/11/02	13:50 13:54	1.3 2.6	6.70 6.78	1,105 1,150	21.3 20.3	>200 >200
	05/01/06	14:00 - - 15:45	3.9 1.9 3.8 5.7	6.65 6.78 6.61 6.79	1,155 2,384 2,448 2,507	19.8 13.2 12.4 12.2	>200 268 121 266
MW-10	09/11/02	14:28 14:37	2.5 5	6.56 6.52	1,430 1,418	19.3 17.0	120.0 144.0
	05/01/06	14:44 - - 11:30	7.5 2.8 5.6 8.4	6.44 7.29 6.80 6.55	1,422 1,321 1,361 1,372	16.8 14.2 12.9 12.8	>200 >1000 >1000 >1000
MW-11	09/11/02	10:16	0.1 dry	6.77	1,554	20.1	>200
	03/13/03	11:56 12:01 12:05 12:12	0.9 1.8 2.7 3.6	7.17 7.25 7.24 7.16	1,541 1,507 1,492 1,490	6.8 6.5 6.4	77.1 66.3 49.8 28.6
	08/24/04	12:30 12:34 12:37	1.2 1.8	6.76 6.68 6.70	1,293 1,297 1.292	20.1 19.4 19.1	1 1 1
	05/01/06	13:30	1.4 2.8 4.2	7.09 7.03 6.84	2,629 2,732 2,696	14.1 12.6 12.8	231 708 >1000
MW-12	09/11/02	11:58 12:05 12:14	2.3 6.9	6.67 6.75 6.76	1,044 1,032 1,038	21.1 20.8 20.4	82.0 >200 >200
MW-13	09/10/02	10:34 10:41 10:47	2.1 4.2 6.3	6.69 6.74 6.83	1,951 1,945 1,959	19.1 17.8 16.0	>200 >200 >200

TABLE 5 FIELD PARAMETER SUMMARY

Well	Date	Time	Volume (gal)	pH (S∪)	Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-13	09/12/02	9:59 10:04	120 ml/min	6.85 6.80	1,865 1,871	16.8	15.3 15.0
	(IOW IIOW)	10:09	104 ml/min	6.74	1,869	16.7	16.0
MW-14	03/13/03	10:27	1.7	7.55	2,609	4.7	50.0
		10:33	3.4	6.91	2,804	4.8	66.8
		10:42	5 . J	6.82	2,174	o o o N	35.5 5
		11:05	о О л О	0.90 000	2,244 3,650	o 0	20.0 128 1
	08/24/04	13:52	<u>ა</u> ი	ი . გა	1.962	20.7	
	1	13:56	3.2	6.74	1.911	19.6	ı
		14:00	4.8	6.73	1,834	18.8	ı
MW-15	03/13/03	9:30	0.7	5.95	2,577	3.3	82.2
		9:34	1.4	6.46	2,584	3.9	130.5
		9:38	2.1	6.70	2,635		125.0
		9.4-	ы О Ю Г	6.79	2,593	4	99.Z
	08/24/04	13:02	0.9	6.85 85	1,856	20.1	· 0
		13:04	1.8	6.87	1,770	20.0	
		13:06	2.7	6.91	1,716	19.4	ı
MW-16	05/01/06	9:14	0.9	6.87	2,951	12.9	>1000
		9:47	0 <u>1</u>	6.61 0.61	3,173	11.8	>1000
	09/15/06	10:20	1.7	6 0.59 6 0.59	3,183 1,670	31.7	505
	09/10/00	10:06	ა - ა -	の C の C い I	1,070	3 N	ı
		12:32	3.3	6.85	1,794	20.9	1
MW-17	05/01/06	9:06	2.2	6.85	2.405	11.4	>200
		9:11	4.4	6.92	2,439	11.1	>200
		9:16	6.6	7.20	2,431	11.5	>200
	09/15/06	9:58	2.1	6.60	1,015	20.1	>200
		10:06 10:15	6.4	7.23	1,032 1,036	19.3 18.8	>200
D) \ 1	05/03/06		0 7	D TI O) 0 0 1	171	၁ စ
χ -	05/02/06	- 10:55	1.4	6.49	2,825 2,822	17.1 17.3	387
			dry				
RW-2	05/02/06	11:25	0.5	6.97	1,300	15.3	>1000
			ary				

- Notes:

 1. ft btoc = feet below top of casing.

 2. SU = standard units.

 3. umhos/cm = micromhos per centimeter.

 4. (°C) = degrees Celcius.

 5. NTU = Nephelometric Turbidity Units.

TABLE 6 GROUNDWATER SAMPLE SUMMARY Buell Automatics RI Rochester, NY

BU-MW13-GW-MS/MSD	BU-MW8-GW	BU-MW5-GW	BU-DUP-GW	BU-MW2-GW	BU-MW1-GW	BU-MW12-GW	BU-MW10-GW	BU-MW9-GW	BU-MW7-GW	BU-MW6-GW	Trip Blanks	BU-MW13-GW-MS/MSD	BU-MW8-GW	BU-MW5-GW	BU-XX-GW-DU	<u>September 2002</u> BU-MW2-GW	Trip Blanks	BU-B17-GW	BU-B16-W-RB	BU-B16-GW	BU-B15-GW	Trip Blanks	BU-B18-GW	BU-B14-GW	BU-B13-GW	August 2002 BU-B11-GW-MS/MSD	Sample ID L
MW-13	MW-8	MW-5	MW-2	MW-2	MW-1	MW-12	MW-10	MW-9	MW-7	MW-6	,	MW-13	MW-8	MW-5	MW-2	MW-2	1	B-17	B-16	B-16	B-15	1	B-18	B-14	B-13	B-11	Location
9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/11/02	9/11/02	9/11/02	9/11/02	9/11/02	9/10/02	9/10/02	9/10/02	9/10/02	9/10/02	9/10/02	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02	8/8/02	8/8/02	8/7/02	8/7/02	8/7/02	Date
peristaltic pump	peristaltic pump	peristaltic pump	peristaltic pump	peristaltic pump	disposable bailer	•	disposable bailer	•	disposable bailer	disposable bailer	disposable bailer	disposable bailer		disposable bailer	disposable bailer	disposable bailer	disposable bailer	Method									
					×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	TCL VOCs by ASP 95-1
																											TOL 1/00- h
																											TCL VOCs by OLM 4.2
					*	*	×	*	×	*		×	*	*	×	×											OLM 4.2 TCL VOCs by
					×	×	×	×	×	×		×	×	×	×	×											TCL VOCs by EPA 8260 TCL SVOCs by ASP 95-2 TCL SVOCs by OLM 4.2
					×	×	×	×	×	*		× ×		× ×		×											TCL VOCs by EPA 8260 TCL SVOCs by ASP 95-2

TABLE 6 GROUNDWATER SAMPLE SUMMARY Buell Automatics RI Rochester, NY

BU-M10-GW	BU-MW9-GW	BU-MW8-GW	BU-MW7-GW	BU-MW6-GW	BU-MW3-GW	<u>May 2006</u> BU-MW2-GW	MW-15	MW-14	MW-11	MW-7	MW-6	(385 Buell)	August 2004 MW-3	Trip Blanks	BU-RW-2-W	January 2004 BU-RW-1-W MS/MSD	Trip Blanks	BU-B19-W	BU-DUP-W	<u>May 2003</u> BU-B27-W-MS/MSD	BU-MW11-GW	BU-MW14-GW MS/MSD	BU-DUP-GW	<u>March 2003</u> BU-MW15-GW	Trip Blanks	Sample ID
MW-10	MW-9	MW-8	MW-7	MW-6	MW-3 (385)	MW-2	MW-15	MW-14	MW-11	MW-7	MW-6	MW-4	MW-3	1	RW-2	RW-1	1	B-19	B-19	B-27	MW-11	MW-14	MW-15	MW-15		Location
5/1/06	5/1/06	5/1/06	5/1/06	5/1/06	5/1/06	5/1/06	8/24/04	8/24/04	8/24/04	8/24/04	8/24/04	8/24/04	8/24/04	1/13/04	1/13/04	1/13/04	5/5/03	5/5/03	5/3/03	5/3/03	3/13/03	3/13/03	3/13/03	3/13/03	9/12/02	Date
disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	1	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	disposable bailer	1	Method						
														×	×	×	×	×	×	×	×	×	×	×	×	TCL VOCs by ASP 95-1
×	×	×	×	×	×	×																				TCL VOCs by OLM 4.2
							×	×	×	×	×	×	×													TCL VOCs by EPA 8260
																										TCL SVOCs by ASP 95-2
×																										TCL SVOCs by OLM 4.2
																										TCL Pest/PCBs by ASP 95-3
																										TAL Metals

TABLE 6 GROUNDWATER SAMPLE SUMMARY Buell Automatics RI Rochester, NY

TRIP BLANK	BU-MW17-GW	<u>September 2006</u> BU-M16-GW	TRIP BLANK	BU-DUP-GW	BU-RW2-GW	BU-RW1-GW	BU-MW17-GW	BU-M16-GW	BU-MW11-GW	Sample ID
	MW-17	MW-16	1	MW-16	RW-2	RW-1	MW-17	MW-16	MW-11	Location
	9/15/06	9/15/06	1	5/1/06	5/2/06	5/2/06	5/1/06	5/1/06	5/1/06	Date
	disposable bailer	disposable bailer	ļ	disposable bailer	Method					
										TCL VOCs by ASP 95-1
			×	×	×	×	×	×	×	TCL VOCs by OLM 4.2
×	×	×								TCL VOCs by EPA 8260
										TCL SVOCs by ASP 95-2
				×				×		TCL SVOCs by OLM 4.2
										TCL Pest/PCBs by ASP 95-3
										TAL Metals

TABLE 7 STRATIGRAPHIC SUMMARY

Boring/	Ground		FIL	1			LACUSTRI	NE SAND			SILT and	hester, NY		1	LACHSTR	INE SAND			GL ACI	AL TILL		REDI	ROCK
Dorning/	Ground			_ _	Bottom		LACOSTRI	INE SAIND	Bottom		JILI all	UOLAI	Bottom		LACOSTR	INL SAND	Bottom		GLAGI	AL IILL	Bottom	DEDI	\\
Well	Elevation	Top (ft. bgs)	Bottom (ft. bgs)	Top Elev. (ft.AMSL)	Elev. (ft.AMSL)	Top (ft. bgs)	Bottom (ft. bgs)	Top Elev. (ft.AMSL)	Elev. (ft.AMSL)	Top (ft. bgs)	Bottom (ft. bgs)	Top Elev. (ft.AMSL)	Elev. (ft.AMSL)	Top (ft. bgs)	Bottom (ft. bgs)	Top Elev. (ft.AMSL)	Elev. (ft.AMSL)	Top (ft. bgs)	Bottom (ft. bgs)	Top Elev. (ft.AMSL)	Elev. (ft.AMSL)	Top (ft. bgs)	Top Elev. (ft.AMSL)
Phase II F	 ield Data									ļ													
MW-1	563.9	0.0	0.0	-	-	0.0	20.0	563.9	543.9	20.0	>22.0	543.9	_	-	_	_	-	-	_	_	_	_	-
MW-2	561.9	0.0	3.0	561.9	558.9	3.0	12.5	558.9	549.4	12.5	19.0	549.4	542.9	-	-	-	-	19.0	> 21	542.9	-	-	-
MW-3	562.8	0.0	5.0	562.8	557.8	3.0	> 21	559.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	562.8	0.0	3.0	562.8	559.8	3.0	19.0	559.8	543.8	19.0	29.0	543.8	533.8	-	-	-	-	29.0	30.5	533.8	532.3	-	-
MW-5 B-1	562.1 562.8	0.0 0.0	4.0 3.0	562.1 562.8	558.1 559.8	4.0	18.0	558.1 559.8	544.1	-	-	-	-	-	-	-	-	18.0	>21.5	544.1	-	-	-
B-1 B-2	562.8	0.0	1.0	562.8	561.8	3.0 1.0	> 9 5.0	561.8	- 557.8	5.0	> 7	- 557.8	-	_	-	-	-	_	-	-	-	-	-
B-3	562.8	0.0	1.0	562.8	561.8	1.0	6.0	561.8	556.8	6.0	> 7	556.8	-	_	_	_	-	-	_	_	-	_	-
B-4	562.8	0.0	1.0	562.8	561.8	1.0	6.5	561.8	556.3	6.5	> 7	556.3	-	-	-	-	-	-	-	-	-	-	-
B-5	562.8	0.0	1.0	562.8	561.8	1.0	6.5	561.8	556.3	6.5	> 7	556.3	-	-	-	-	-	-	-	-	-	-	-
B-6 B-7	562.8 562.8	0.0 0.0	3.0 3.0	562.8 562.8	559.8 559.8	3.0 3.0	> 13 > 11	559.8 559.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remedial In	 vestigation Fi	eld Data																					
MW-2D	562.0	0.0	2.0	562.0	560.0	2.0	19.5	560.0	542.5	19.5	24.0	542.5	538.0	24.0	28.0	538.0	534.0	28.0	37.3	534.0	524.7	37.3	524.7
MW-6	560.3	0.0	2.6	560.3	557.7	2.6	11.2	557.7	549.1	11.2	15.0	549.1	545.3	15.0	15.9	545.3	544.4	15.9	> 19	544.4	-	-	-
MW-7	561.4	0.0	1.5	561.4	559.9	1.5	13.4	559.9	548.0	13.4	18.3	548.0	543.1	-	-		-	18.3	> 20	543.1	-	-	-
MW-8	562.0	0.0	1.3	562.0	560.7	1.3	17.0	560.7	545.0	17.0	19.6	545.0	542.4	19.6	22.6	542.4	539.4	22.6	> 24	539.4	-	-	-
MW-9 MW-10	561.1 562.8	0.0 0.0	1.6 0.5	561.1 562.8	559.5 562.3	1.6 0.5	11.0 17.7	559.5 562.3	550.1 545.1	-	-	-	-	_	-	-	-	11.0 17.7	> 16 > 20	550.1 545.1	-	-	-
MW-11	559.3	0.0	1.5	559.3	557.8	1.5	11.2	557.8	548.1	-	-	-	-	_	-	-	-	11.2	> 20	548.1	-	-	_
MW-12	562.8	0.0	1.7	562.8	561.1	1.7	8.6	561.1	554.2	8.6	11.7	554.2	551.1	11.7	13.8	551.1	549.0	13.8	> 20	549.0	-	-	-
MW-13	563.9	0.0	8.0	563.9	563.1	8.0	20.0	563.1	543.9	20.0	26.0	543.9	537.9	26.0	27.8	537.9	536.1	27.8	> 34	536.1	-	-	-
MW-14	561.3	0.0	1.5	561.3	559.8	1.5	4.0	559.8	557.3	4.0	15.2	557.3	546.1	15.2	> 16	546.1	-	-	-	-	-	-	-
MW-15	560.5	0.0	1.5	560.5	559.0	1.5	9.0	559.0	551.5	9.0	11.5	551.5	549.0	11.5	> 12	549.0	-	-	-	-	-	-	-
MW-16	562.6	0.0	2.0	562.6	560.6	2.0	5.5	560.6	557.1	5.5	>10	557.1	-	- 44.5	-	- E4E 4	- 542.6	-	-	-	-	-	-
MW-17 MW-18	556.6 556.6	0.0 0.0	2.0 2.0	556.6 556.6	554.6 554.6	2.0	9.0	554.6 -	547.6 -	9.0 2.0	>18 21.0	547.6 554.6	- 535.6	11.5 21.0	14.0 >22	545.1 535.6	542.6	_	-	-	-	-	-
B-8	563.7	0.0	3.0	563.7	560.7	3.0	> 6.5	560.7	_	-	-	-	-	-	-	-	_	_	_	_	_	_	_
B-9	563.7	0.0	2.5	563.7	561.2	2.5	> 6.5	561.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-10	563.7	0.0	2.5	563.7	561.2	2.5	3.8	561.2	559.9	3.8	> 6	559.9	-	-	-	-	-	-	-	-	-	-	-
B-11	562.0	0.0	2.0	562.0	560.0	2.0	> 12	560.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-12	562.0	0.0	2.0	562.0	560.0	2.0	5.3	560.0	556.7	5.3	> 11	556.7	-	-	-	-	-	-	-	-	-	-	-
B-13	562.0 562.0	0.0 0.0	2.0	562.0 562.0	560.0 560.3	2.0	> 10 > 10	560.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-14 B-15	563.7	0.0	1.7 3.3	563.7	560.4	1.7 3.3	> 10	560.3 560.4	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-
B-16	563.7	0.0	3.3	563.7	560.4	3.3	7.0	560.4	556.7	7.0	> 9	556.7	-	-	-	-	-	-	-	_	-	-	-
B-17	563.7	0.0	3.5	563.7	560.2	3.5	7.0	560.2	556.7	7.0	> 9	556.7	-	-	-	-	-	-	-	-	-	-	-
B-18	562.8	0.0	3.5	562.8	559.3	3.5	9.2	559.3	553.6	9.2	> 10	553.6	-	-	-	-	-	-	-	-	-	-	-
B-19	563.7	0.0	2.0	563.7	561.7	2.0	7.2	561.7	556.5	7.2	> 10.2	556.5	-	-	-	-	-	-	-	-	-	-	-
B-20	563.7	0.0	2.3	563.7	561.4	2.3	7.5	561.4	556.2	7.5	> 10	556.2	-	-	-	-	-	-	-	-	-	-	-
B-21 B-22	562.8 562.8	0.0 0.0	2.0 2.5	562.8 562.8	560.8 560.3	2.0 2.5	5.0 6.0	560.8 560.3	557.8 556.8	5.0 6.0	> 8 > 8	557.8 556.8	-	-	-	-	-	-	-	-	-	-	-
B-23	563.7	0.0	1.0	563.7	562.7	1.0	3.5	562.7	560.2	3.5	> 8	560.2	-	_	-	-	-	_	-	-	-	-	-
B-24	563.7	0.0	0.5	563.7	563.2	0.5	> 8	563.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-25	563.7	0.0	1.5	563.7	562.2	1.5	> 8	562.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-26	563.7	0.0	2.0	563.7	561.7	2.0	> 8	561.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-27	563.7	0.0	1.0	563.7	562.7	1.0	11.2	562.7	552.5	11.2	> 12	552.5	-	-	-	-	-	-	-	-	-	-	-
B-28 B-29	563.7 563.7	0.0 0.0	0.4 0.5	563.7 563.7	563.3 563.2	0.4 0.5	11.5 7.5	563.3 563.2	552.2 556.2	11.5 7.5	> 12 > 8	552.2 556.2	-	_	-	-	-	-	-	-	-	-	-
B-29 B-30	563.7	0.0	3.0	563.7	560.7	0.5 3.0	7.5 4.8	563.2 560.7	558.9	7.5 4.8	> 6 > 12	558.9	-	- -	-	-	-	_	-	-	-	-	-
B-31	563.7	0.0	3.0	563.7	560.7	-	-	-	-	3.0	> 8	560.7	-	_	-	-	-	_	-	_	-	-	-
B-32	563.7	0.0	2.5	563.7	561.2	2.5	> 15	561.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-33	563.7	0.0	0.5	563.7	563.2	0.5	> 11.5	563.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-34	563.7	0.0	0.5	563.7	563.2	0.5	7.0	563.2	556.7	7.0	> 8	556.7	-	-	-	-	-	-	-	-	-	-	-
B-35	563.7	0.0	2.0	563.7	561.7	2.0	5.0	561.7	558.7	5.0	> 8 >10	558.7 560.7	-	-	-	-	-	-	-	-	-	-	-
B-36 B-37	563.7 563.7	0.0 0.0	3.0 2.2	563.7 563.7	560.7 561.5	2.2	6.0	- 561.5	- 557.7	3.0 6.0	>10 > 8	560.7 557.7	-	_	-	-	-	-	-	_	-	-	-
B-37 B-38	563.7	0.0	2.2 1.9	563.7 563.7	561.8	1.9	3.5	561.8	560.2	3.5	> 6 > 6	560.2	-	_	-	-	-	_	-	-	-	-	-
B-39	563.7	0.0	2.0	563.7	561.7	2.0	5.0	561.7	558.7	5.0	> 8	558.7	-	-	-	-	-	-	-	_	-	-	-
B-40	563.7	0.0	2.0	563.7	561.7	2.0	5.0	561.7	558.7	5.0	> 8	558.7	-	-	-	-	-	-	-	-	-	-	-
B-41	563.7	0.0	1.9	563.7	561.8	1.9	2.3	561.8	561.4	2.3	> 8	561.4	-	-	-	-	-	-	-	-	-	-	-
B-42	563.7	0.0	2.0	563.7	561.7	2.0	> 8	561.7	-	2.0	7.0	561.7	556.7	-	-	-	-	-	-	-	-	-	-
B-43	563.7	0.0	2.0	563.7	561.7 561.7	2.0	6.5 5.0	561.7	557.2 559.7	6.5 5.0	> 8	557.2	-	-	-	-	-	-	-	-	-	-	-
B-44	563.7	0.0	2.0	563.7	561.7	2.0	5.0	561.7	558.7	5.0	> 8	558.7	-	-	-	-	-	-	-	-	-	-	-
1	1	i												1				i					

Notes:

1. Reference elevations based upon vertical datum NGVD 29.
2. ft. bgs = feet below ground surface.

TABLE 8 GRAIN SIZE SUMMARY

Sample	Depth		ATIGRAPHIC U	INITS	Description	%gravel	%sand	%silt	%clay	K-value (Hazen)
		LACUSTRINE	SILT and							
	(ft. bgs)	SAND	CLAY	GLACIAL TILL						(cm/sec)
MW-8	10-14	x			Reddish Brown Silty Fine Sand	0.0	53.2	46.1	0.7	3.46x10 ⁻⁴
MW-8 (A)	20-22'		x		Light Brown Sandy Silt	1.6	31.5	64.9	2.0	9.22x10 ⁻⁵
MW-8 (B)	20-22'		x		Grayish Brown Clayey Silt	2.4	6.5	52.0	39.1	
MW-2D	12-16'	x			Brown Silty Fine Sand	0.0	64.9	34.0	1.1	4.93x10 ⁻⁴
MW-2D	20-24'		x		Gray Clayey Silt	1.7	7.8	63.7	26.8	
MW-2D	33-37'			x	Gray Silty Sand with Gravel	24.5	47.2	27.4	0.9	2.59x10 ⁻⁴
B-29	5.5-6'		x		Brown Sandy Silt	0.0	18.2	81.7	0.1	3.50x10 ⁻⁴
B-29	7.5-8'		x		Reddish Brown Clayey Silt	0.0	6.2	47.2	46.6	

TABLE 9 SUMMARY OF SLUG TEST RESULTS

Buell Automatics RI Rochester, NY

				ATIGRAPHC U			
MONITORING WELLS	DATE	SCREENED INTERVAL (ft. bgs.)	LACUSTRINE SAND	SILT and CLAY	GLACIAL TILL	RISING HEAD (cm/sec)	FALLING HEAD (cm/sec)
MW-2	10/30/02	11 - 21	x	x		5.70E-04	5.20E-04
MW-6	11/26/02	5 - 19	x	x	x	5.34E-04	3.56E-04
MW-7	11/26/02	5 - 20	x	x		1.13E-04	2.31E-04
MW-8	10/30/02	5 - 19	x	x		5.10E-04	7.20E-04
MW-9	10/30/02	5 - 15	x	x		5.50E-04	1.80E-04
MW-17	04/28/06	7-17	x	x		1.10E-04	1.05E-04

Notes:

- 1. ft. bgs = feet below ground surface.
- 2. cm/s = centimeter per second.

Table 10 Summary of Volatile Organic Compounds in Soil: Monitoring Wells (µg/kg) Buell Automatics RI Rochester, NY

Sample ID	Part 375 Soil Cle	anup Objectives 1	BU-MW2D-S	BU-MW6-S	BU-MW7-S	BU-MW8-S	BU-MW9-S	BU-MW10-S	BU-MW11-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-MW14-S	BU-MW15-S	BU-S-DUP	MW-16	MW-DUP	MW-16	MW-17	MW-18
Sample Depth (ft. bgs)	Industrial	Protection of	8.0 - 10.0	15.0 - 15.9	16.0 - 18.0	16.0 - 18.0	4.0 - 6.0	8.0 - 10.0	10.0 - 12.0	12.0 - 14.0	12.0 - 14.0	6.0 - 8.0	15.2 - 16.0	11.5 - 12.0	11.5 - 12.0	0.5-2.0	0.5-2.0	9-10	7.5-8	18-20
SDG#		Groundwater	R2213195	R2213195	R2212007	R2212007	R2213195	R2213195	R2213195	R2212007	R2212007	R2212007	R2315842	R2315842	R2315842	R2528921	R2528921	R2528921	R2528921	R2528921
Date			08/05/02	08/08/02	05/21/02	05/21/02	08/06/02	08/05/02	08/07/02	05/22/02	05/22/02	05/21/02	02/25/03	02/25/03	02/25/03	11/22/05	11/22/05	11/22/05	11/22/05	11/22/05
Acetone	1,000,000	50	12 U	11 U	26 B	96 B	12 U	11 U	12 U	17 B	21 B	19 B	10 U	4 J	4 J	82	1,500 U	6.0 J	6 J	14
Benzene	89,000	60	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Bromodichloromethane	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Bromoform	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Bromomethane	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
2-Butanone	1,000,000	120	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Carbon Disulfide	NS	NS	12 U	11 U	2 J	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	5 J	1,500 U	11 U	12 U	0.9 J
Carbon Tetrachloride	44,000	760	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Chlorobenzene	1,000,000	1,100	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Chloroethane	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Chloroform	700,000	370	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Chloromethane	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Dibromochloromethane	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
1,1-Dichloroethane	480,000	270	12 U	11 U	11 U	23 J	28	45	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	580 J	11 U	12 U	13 U
1,2-Dichloroethane	60,000	20	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
1,1-Dichloroethene	1,000,000	330	12 U	11 U	11 U	24 J	12 U	5 J	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	650 J	11 U	12 U	13 U
trans-1,2-Dichloroethene	1,000,000	190	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	3 J	470 J	11 U	12 U	13 U
cis-1,2-Dichloroethene	1,000,000	250	190	4 J	11 U	480	90	890 D	11 J	12 U	12 U	12 U	10 U	10 U	10 U	960	42,000 D	26	12 U	13 U
1,2-Dichloropropane	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
trans-1,3-Dichloropropene	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
cis-1,3-Dichloropropene	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Ethylbenzene	780,000	1,000	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	78 J	11 U	12 U	13 U
2-Hexanone	ŃS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Methylene Chloride	1,000,000	50	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	7 JB	1,500 U	11 U	12 U	13 U
4-Methyl-2-Pentanone	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Styrene	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
1,1,2,2-Tetrachloroethane	NS	NS	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Tetrachloroethene	300,000	1,300	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Toluene	1,000,000	700	12 U	11 U	11 U	6 J	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	3 J	1,500 U	11 U	0.5 J	13 U
1,1,1-Trichloroethane	1,000,000	680	12 U	11 U	11 U	60 U	12 U	4 J	12 U	12 U	12 U	12 U	10 U	10 U	10 U	340	48,000 D	11 U	12 U	13 U
1,1,2-Trichloroethane	NS	NS	12 U	11 U	11 U	60 U	12 U	19	12 U	12 U	12 U	12 U	10 U	10 U	10 U	15 J	1,500 U	4.5 J	12 U	13 U
Trichloroethene	400,000	470	12 U	4 J	11 U	22,000 D	9 J	440 D	12 U	12 U	12 U	12 U	10 U	10 U	10 U	530	290,000 D	29	12 U	13 U
Vinyl Chloride	27,000	20	12 U	11 U	11 U	60 U	6 J	28	4 J	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
o-Xylene ⁽⁴⁾	1,000,000	1,600	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	6 J	1,500 U	11 U	12 U	13 U
m/p-Xylenes ⁽⁴⁾	1,000,000	1,600	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	59 U	1,500 U	11 U	12 U	13 U
Total VOC TICs	NS	NS	0	11	0	0	10	71	16	0	0	0	0	0	0	1,831	39,900	65.5	0	0

- Notes:

 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.
- 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
- 3. **Bold-faced** values are concentrations that exceed Subpart 375.6 soil cleanup objectives for Protection of Groundwater.
- (4) = SCOs for total xylenes.
- 5. "NS" indicates no standard under part 375.6
- 6. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 7. "J" indicates an estimated value.
- 8. "U" indicates that the analyte was analyzed but not detected.
- 9. "B" indicates the analyte was found in the associated blank.
- 10. BU-XX-S-DU is a duplicate analysis of sample BU-MW-12-S.
- 11. BU-S-DUP is a duplicate analysis of sample BU-MW15-S.

Table 11 Sumary of Volatile Organic Compounds in Soil: Geoprobe Borings ($\mu g/kg$) Buell Automatics RI

Sample I Sample Depth (ft. bgs SDG	c) Cleanup	375 Soil Objectives ¹ Groundwater	BU-B8-S * 1.8 - 2.5 R2213195	B8 (52679) * 3.2 - 4.5 DEC sample	BU-B9-S 5.0 - 6.5 R2213195	B-9 (52678) 5.5 - 6 DEC sample	BU-B10-S 3.0 - 3.7 R2213195	BU-B11-S 7.5 - 8.0 R2213195	BU-B12-S 4.0 - 5.3 R2213195	BU-B13-S 3.0 - 3.8 R2213195	BU-B14-S 3.5 - 4.0 R2213195	BU-B15-S 4.5 - 5.0 R2213195	B-15 (52680) 4 - 6 DEC sample	BU-B16-S 6.0 - 6.5 R2213195	BU-B17-S 4.5 - 5.0 R2213195	B-17 (52681) 1.5 - 2 DEC sample	BU-B18-S 4.5 - 5.0 R2213195	BU-B19-S 3.5 - 4.0 R2316744	BU-B21-S 4.5 - 5.0 R2316744	BU-B22-S 5.5 - 6.0 R2316744	BU-B23-S 1.0 - 2.0 R2316744	BU-B24-S 5.5 - 6.0 R2316744	BU-B25-S 5.5 - 6.0 R2316744
Dat	te Industrial	Protection	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	08/08/02	08/08/02	08/08/02	08/08/02	08/09/02	08/09/02	08/09/02	08/09/02	08/09/02	08/08/02	05/05/03	05/03/03	05/05/03	05/05/03	05/03/03	05/03/03
Acetone	1,000,000	50	270,000 U	21.5 U	1,500 U	23.8 U	1,500 U	58 J	28	57 J	12 U	1,600 U	50.0 U	12 J	64	23.5 U	1,600 U	1,600 U	59	65 U	1,500 U	12 U	21
Benzene	89,000	60 NS	270,000 U	4.3 U	1,500 U	4.8 U 4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U 4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Bromobenzene Bromochloromethane	NS NS	NS NS		4.3 U 4.3 U		4.8 U							10.0 U 10.0 U			4.7 U							
Bromodichloromethane	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Bromoform	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Bromomethane	NS 4 000 000	NS 100	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
2-Butanone n-Butylbenzene	1,000,000 1,000,000	120 12,000	270,000 U	4.3 U 4.3 U	1,500 U	4.8 U 4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U 10.0 U	13 U	61 U	4.7 U 4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
sec-Butylbenzene	1,000,000	11,000		4.3 U		4.8 U							99.4			4.7 U							
tert-Butylbenzene	1,000,000	5,900		4.3 U		4.8 U							10.0 U			4.7 U							
Carbon Disulfide	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Carbon Tetrachloride Chlorobenzene	44,000 1,000,000	760 1,100	270,000 U 270,000 U	4.3 U 4.3 U	1,500 U 1,500 U	4.8 U 137.4	1,500 U 1,500 U	60 U 60 U	11 U 11 U	60 U 60 U	12 U 12 U	1,600 U 1,600 U	10.0 U 10.0 U	13 U 13 U	61 U 61 U	4.7 U 4.7 U	1,600 U 1,600 U	1,600 U 1,600 U	25 U 25 U	65 U 65 U	1,500 U 1,500 U	12 U 12 U	12 U 12 U
Chloroethane	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Chloroform	700,000	370	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Chloromethane	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
2-Chlorotoluene	NS NS	NS NC		4.3 U		4.8 U							10.0 U			4.7 U							
4-Chlorotoluene 1,2-Dibromoethane	NS NS	NS NS		4.3 U 4.3 U		4.8 U 4.8 U							10.0 U 10.0 U			4.7 U 4.7 U							
Dibromomethane	NS NS	NS NS		4.3 U		4.8 U							10.0 U			4.7 U							
Dibromochloromethane	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
1,2-Dibromo-3-chloropropane	NS	NS		4.3 U		4.8 U							10.0 U			4.7 U							
1,2-Dichlorobenzene	1,000,000	1,100		4.3 U		4.8 U							10.0 U			4.7 U							
1,3-Dichlorobenzene 1,4-Dichlorobenzene	560,000 250,000	2,400 1,800		4.3 U 4.3 U		4.8 U 4.8 U							10.0 U 10.0 U			4.7 U 4.7 U							1
Dichlorodifluoromethane	NS	NS		4.3 U		4.8 U							10.0 U			4.7 U							1
1,1-Dichloroethane	480,000	270	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	5 J	47 J	4.7 U	1,600 U	1,600 U	8 J	65 U	2,400	2 J	12 U
1,2-Dichloroethane	60,000	20	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
1,1-Dichloroethene	1,000,000	330	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 J	12 U
trans-1,2-Dichloroethene cis-1,2-Dichloroethene	1,000,000 1,000,000	190 250	270,000 U 76,000 J	4.3 U 4.3 U	1,500 U 1,200 J	4.8 U 4.8 U	1,500 U 1,500 U	60 U 480	11 U 11 U	60 U 60 U	12 U 12 U	1,600 U 1,600 U	10.0 U 10.0 U	13 U 13 U	61 U 61 U	4.7 U 4.7 U	1,600 U 1,600 U	1,600 U 1,600	25 U 230	65 U 65 U	1,500 U 84,000 D	12 U 360 D	12 U 2 J
1,2-Dichloropropane	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
1,3-Dichloropropane	NS	NS	.,	4.3 U	,	4.8 U	,					,	10.0 U			4.7 U	,	,			,,,,,,,		
2,2-Dichloropropane	NS	NS		4.3 U		4.8 U							10.0 U			4.7 U							
1,1-Dichloropropene	NS	NS NC	070 000 11	4.3 U	4 500 11	4.8 U	4.500.11	CO 11	44.11	60.11	40.11	4 000 11	10.0 U	40.11	64.11	4.7 U	4 000 11	4 000 11	25.11	CE 11	4.500.11	40.11	40.11
trans-1,3-Dichloropropene cis-1,3-Dichloropropene	NS NS	NS NS	270,000 U 270,000 U	4.3 U 4.3 U	1,500 U 1,500 U	4.8 U 4.8 U	1,500 U 1,500 U	60 U 60 U	11 U 11 U	60 U 60 U	12 U 12 U	1,600 U 1,600 U	10.0 U 10.0 U	13 U 13 U	61 U 61 U	4.7 U 4.7 U	1,600 U 1,600 U	1,600 U 1,600 U	25 U 25 U	65 U 65 U	1,500 U 1,500 U	12 U 12 U	12 U 12 U
Ethylbenzene	780,000	1,000	270,000 U	4.3 U	210 J	4.8 U	1,500 U	520	11 U	60 U	12 U	380 J	10.0 U	6 J	27 J	27.6	1,600 U	480 J	25 U	65 U	1,500 U	12 U	12 U
Hexachlorobutadiene	NS	NS	,	4.3 U		4.8 U	,						10.0 U			4.7 U	,				,		1
2-Hexanone	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Isopropylbenzene	NS NS	NS NC		51.4		4.8 U							10.0 U			4.7 U							1
4-Isopropyltoluene Methylene Chloride	NS 1,000,000	NS 50	270,000 U	4.3 U 21.5 U	1,500 U	111.8 23.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	206.3 50.0 U	13 U	61 U	120.5 23.5 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
4-Methyl-2-Pentanone	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Methyl-tert-butyl Ether	1,000,000	930	, · ·	4.3 U		4.8 U						·	10.0 U			4.7 U							
Naphthalene	1,000,000	12,000		202.1		222.1							58.4			395.3							
n-Propylbenzene	1,000,000 NS	3,900 NS	270.000 U	4.3 U 4.3 U	1.500 U	92.7 4.8 U	1.500 U	60 U	11 U	60 U	12 U	1.600 U	10.0 U 10.0 U	13 U	61 U	33.3 4.7 U	1.600 U	1.600 U	25 U	65 U	1.500 U	12 U	12 U
Styrene 1,1,1,2-Tetrachloroethane	NS NS	NS NS	210,000 U	4.3 U 4.3 U	1,500 0	4.8 U 4.8 U	1,500 0	60 U	110	60 0	12 0	1,000 U	10.0 U 10.0 U	13 0	610	4.7 U 4.7 U	1,000 U	1,000 U	25 U	05 U	1,500 0	12 0	12 0
1,1,2,2-Tetrachloroethane	NS NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Tetrachloroethene	300,000	1,300	270,000 U	571.5	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
Toluene	1,000,000	700	270,000 U	149.8	1,500 U	10.5	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene	NS NS	NS NS		4.3 U 4.3 U		4.8 U 4.8 U							10.0 U 10.0 U			4.7 U 4.7 U							,
1,1,1-Trichloroethane	1,000,000	680	150,000 J	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	16.6	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	67,000 D	12 J	12 U
1,1,2-Trichloroethane	NS	NS	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	60 U	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12	12 U
Trichloroethene	400,000	470	14,000,000 D	292,258	1,500 U	18.3	1,500 U	38 J	11 U	60 U	12 U	1,600 U	4,012.5	13 U	61 U	22.7	1,600 U	1,900	25 U	65 U	820,000 D	84 D	3 J
Trichlorofluoromethane	NS	NS		4.3 U		4.8 U							10.0 U			4.7 U							
1,2,3-Trichloropropane 1,2,4-Trimethylbenzene	NS 380,000	NS 3 600		4.3 U		4.8 U 4.8 U							10.0 U			4.7 U							
1,2,4-1 rimethylbenzene 1,3,5-Trimethylbenzene	380,000 380,000	3,600 8,400		114.8 4.3 U		4.8 U 214.2							222.2 10.0 U			411.8 117.6							
Vinyl Chloride	27,000	20	270,000 U	4.3 U	1,500 U	4.8 U	1,500 U	140	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	4.7 U	1,600 U	1,600 U	25 U	65 U	1,500 U	12	12 U
o-Xylene (4)	1,000,000	1,600	270,000 U	4.3 U	170 J	4.8 U	1,500 U	100	11 U	28 J	12 U	1,600 U	10.0 U	5 J	100	120.7	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
m/p-Xylenes (4)	1,000,000	1,600	270,000 U	8.6 U	270 J	9.5 U	620 J	580	11 U	60 U	12 U	1,600 U	10.0 U	13 U	61 U	75.9	1,600 U	1,600 U	25 U	65 U	1,500 U	12 U	12 U
L																							,
Total VOC TICs	NS	NS	3,820,000		198,700		114,600	128,700	87	12,530	13	178,900		5,530	12,150		172,500	340,000	6,000	4,490	12,500	0	0
ii .	1	i e				i l		1		1				1			1						

- Notes:

 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.
- 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
- 3. **Bold-faced** values are analytes that exceed Subpart 375.6 soil cleanup objective for Protection of Groundwater.
- 4. (4) = SCOs for total xylenes.
- 5. "NS" indicates no standard under part 375.6
- 6. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 7. "J" indicates an estimated value.

- 8. "U" indicates that the analyte was analyzed but not detected.
- 9. "B" indicates the analyte was found in the associated blank.
- 10. BU-DUP-S is a duplicate analysis of sample BU-B32-S.
- 11. BU-XX-S is a duplicate analysis of sample BU-B35-S.
- 12. * = Excavated during IRM.
- 13. Blank cell indicates no analysis for this parameter.

Table 11 Sumary of Volatile Organic Compounds in Soil: Geoprobe Borings ($\mu g/kg$) Buell Automatics RI

Sa Sample Depth			375 Soil Objectives ¹	BU-B26-S * 2.5 - 3.0	BU-B28-S 6.5 - 7.0	BU-B29-S 3.5 - 4.0	BU-B30-S 3.5 - 4.0	BU-B31-S 6.0 - 6.5	BU-B32-S 3.5 - 4.0	BU-DUP-S 3.5 - 4.0	BU-B33-S 6.0 - 6.5	BU-B34-S 2.0 - 2.5	BU-B35-S 2.0-3.0	BU-XX-S 2.0-3.0	BU-35-S 7.0-8.0	BU-B36-S 7.0-8.0	BU-B36-S 9.0-10.0	BU-B37-S 3.0-4.0	BU-B39-S 2.5-3.0	BU-B39-S 2.5-3.0DL
	SDG# Date	Industrial	Groundwater Protection	R2316744 05/03/03	R2316744 05/03/03	R2316744 05/03/03	R2316744 05/03/03	R2316744 05/05/03	R2316744 05/05/03	R2316744 05/05/03	R2316744 05/05/03	R2316744 05/05/03	R2527877 09/20/05							
Acetone		1,000,000	50	1,400 U	57	1,600 U	85 J	42	1,600 U	1,600 U	16	1,600 U	1,500 U	1,500 U	13	1,500 U	1,500 U	19	62	1,500 U
Benzene		89,000	60	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
Bromobenzene		NS	NS																	
Bromochloromethane		NS	NS	4 400 11		4 000 11		40.11		4 000 11	40.11		4 500 11	4 500 11	44.11	4 =00	4 500 11	40.11		4 500 11
Bromodichloromethane		NS NS	NS NS	1,400 U 1,400 U	33 U 33 U	1,600 U 1,600 U	24 U 24 U	12 U 12 U	1,600 U 1,600 U	1,600 U 1,600 U	12 U 12 U	1,600 U 1,600 U	1,500 U 1,500 U	1,500 U 1,500 U	11 U 11 U	1,500 U 1,500 U	1,500 U 1,500 U	12 U 12 U	61 U 61 U	1,500 U 1,500 U
Bromoform Bromomethane		NS NS	NS NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
2-Butanone		1,000,000	120	1,400 U	33 U	1,600 U	13 J	4 J	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
n-Butylbenzene		1,000,000	12,000	1,100 0	33 2	.,000 0		. 0	.,000 0	1,000 0	0	.,000 0	.,000 0	1,000 0		.,000	.,000 0	0	0.0	1,000 0
sec-Butylbenzene		1,000,000	11,000																	
tert-Butylbenzene		1,000,000	5,900																	
Carbon Disulfide		NS	NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	3 J	1,500 U
Carbon Tetrachloride		44,000	760	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
Chlorobenzene		1,000,000	1,100	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
Chloroethane		NS 700,000	NS 270	1,400 U	33 U 33 U	1,600 U	24 U	12 U 12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U 61 U	1,500 U
Chloroform Chloromethane		700,000 NS	370 NS	1,400 U 1,400 U	33 U	1,600 U 1,600 U	24 U 24 U	12 U	1,600 U 1,600 U	1,600 U 1,600 U	12 U 12 U	1,600 U 1,600 U	1,500 U 1,500 U	1,500 U 1,500 U	11 U 11 U	1,500 U 1,500 U	1,500 U 1,500 U	12 U 12 U	61 U	1,500 U 1,500 U
2-Chlorotoluene		NS NS	NS NS	1,400 0	33 0	1,000 0	24 0	12 0	1,000 0	1,000 0	12 0	1,000 0	1,500 0	1,500 0	11.0	1,500 0	1,500 0	12 0	010	1,300 0
4-Chlorotoluene		NS	NS																	
1,2-Dibromoethane		NS	NS																	
Dibromomethane		NS	NS																	
Dibromochloromethane		NS	NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
1,2-Dibromo-3-chloroprop	pane	NS	NS																	
1,2-Dichlorobenzene		1,000,000	1,100																	
1,3-Dichlorobenzene		560,000	2,400																	
1,4-Dichlorobenzene		250,000	1,800																	
Dichlorodifluoromethane 1,1-Dichloroethane		NS 480,000	NS 270	1,400 U	6 J	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	930 J	17	1,500 U	1,500 U	12 U	48 J	1,500 U
1,2-Dichloroethane		60,000	20	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	17 11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
1,1-Dichloroethene		1,000,000	330	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	480 J	82 J	0.5 J	1,500 U	1,500 U	12 U	5 J	1,500 U
trans-1,2-Dichloroethene	:	1,000,000	190	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	81 J	160 J	11 U	1,500 U	1,500 U	12 U	14 J	1,500 U
cis-1,2-Dichloroethene		1,000,000	250	2,000	29 J	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	10,000	17,000	170	1,700	1,900	130	3,100 E	3,300 D
1,2-Dichloropropane		NS	NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
1,3-Dichloropropane		NS	NS																	
2,2-Dichloropropane		NS	NS																	
1,1-Dichloropropene		NS	NS	4 400 11		4 000 11		40.11		4 000 11	40.11		4 500 11	4 500 11	44.11	4 =00	4 500 11	40.11		4 =00 !!
trans-1,3-Dichloropropen	ie	NS	NS NG	1,400 U 1.400 U	33 U 33 U	1,600 U	24 U 24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U 11 U	1,500 U	1,500 U	12 U 12 U	61 U	1,500 U
cis-1,3-Dichloropropene Ethylbenzene		NS 780,000	NS 1,000	1,400 U	61	1,600 U 740 J	13 J	12 U 12 U	1,600 U 500 J	1,600 U 490 J	12 U 12 U	1,600 U 890 J	1,500 U 1,500 U	1,500 U 1,500 U	11 U	1,500 U 1,500 U	1,500 U 1,500 U	12 U	61 U 61 U	1,500 U 1,500 U
Hexachlorobutadiene		750,000 NS	NS	1,400 0	01	740 3	13 3	12 0	300 3	430 3	12 0	090 3	1,500 0	1,500 0	11 0	1,300 0	1,300 0	12 0	010	1,500 0
2-Hexanone		NS	NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
Isopropylbenzene		NS	NS	1,100 0	33 2	.,000 0	2.0	0	.,000 0	1,000 0	0	.,000 0	.,000 0	.,000 0		.,000	.,000 0	0	0.0	.,000
4-Isopropyltoluene		NS	NS																	
Methylene Chloride		1,000,000	50	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	3 J	1,500 U
4-Methyl-2-Pentanone		NS	NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
Methyl-tert-butyl Ether		1,000,000	930																	
Naphthalene		1,000,000	12,000																	
n-Propylbenzene		1,000,000 NS	3,900 NS	1 400 11	22.11	1 600 11	24.11	40.11	1 600 11	1 600 11	40.11	1 600 11	1 500 11	1 500 11	44 11	1 500 11	1 500 11	40.11	64 11	1,500 U
Styrene 1,1,1,2-Tetrachloroethan	٩	NS NS	NS NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 0
1,1,2,2-Tetrachloroethan		NS	NS NS	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
Tetrachloroethene	-	300,000	1,300	1,400 U	20 J	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
Toluene		1,000,000	700	1,400 U	29 J	1,600 U	6 J	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
1,2,3-Trichlorobenzene		NS	NS									•			, i					
1,2,4-Trichlorobenzene		NS	NS																	
1,1,1-Trichloroethane		1,000,000	680	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	16,000	19,000	12	16,000	1,500 U	12 U	200	1,500 U
1,1,2-Trichloroethane		NS 400,000	NS 170	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	3 J	1,500 U	1,500 U	12 U	61 U	1,500 U
Trichloroethene		400,000	470	18,000	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,400 U	1,400 U	51	1,800	3,400	13	61 U	1,500 U
Trichlorofluoromethane		NS NS	NS NS																	
1,2,3-Trichloropropane 1,2,4-Trimethylbenzene		NS 380,000	NS 3,600																	
1,3,5-Trimethylbenzene		380,000	8,400																	
Vinyl Chloride		27,000	20	1,400 U	33 U	1,600 U	24 U	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
o-Xylene ⁽⁴⁾		1,000,000	1,600	1,400 U	130	1,600 U	47	12 U	1,600 U	1,600 U	12 U	1,600 U	240 J	200 J	11 U	240 J	1,500 J	12 U	61 U	1,500 U
m/p-Xylenes (4)		1,000,000	1,600	1,400 U	250	1,600 U	34	12 U	1,600 U	1,600 U	12 U	1,600 U	1,500 U	1,500 U	11 U	1,500 U	1,500 U	12 U	61 U	1,500 U
, , 		, . , . ,	.,==#	.,.50 5		.,550 0			.,000 0	.,555 0		.,555 5	.,550 0	.,555 0		.,555 0	.,550 0			.,550 5
		NS	NS	7,630	22,500	490,000	7,270	743	412,000	398,000	30	363,000	170,600	148,500	0	0	0	0	0	0

- Notes:

 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.
- 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
- 3. **Bold-faced** values are analytes that exceed Subpart 375.6 soil cleanup objective for Protection of Groundwater.
- 4. (4) = SCOs for total xylenes.
- 5. "NS" indicates no standard under part 375.6
- 6. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 7. "J" indicates an estimated value.

- 8. "U" indicates that the analyte was analyzed but not detected.
- 9. "B" indicates the analyte was found in the associated blank.
- 10. BU-DUP-S is a duplicate analysis of sample BU-B32-S.
- 11. BU-XX-S is a duplicate analysis of sample BU-B35-S.
- 12. * = Excavated during IRM.
- 13. Blank cell indicates no analysis for this parameter.

Table 11 Sumary of Volatile Organic Compounds in Soil: Geoprobe Borings ($\mu g/kg$) Buell Automatics RI

Sample ID Sample Depth (ft. bgs)		375 Soil Objectives 1	BU-B39-S 6.0-7.0	BU-B40-S 6.5-7.0	BU-B40-S 6.5-7.0DL	BU-B40-S 7.5-8.0	BU-B41-S 3.5-4.0	BU-B42-S 3.5-4.0	BU-B42-S 3.5-4.0DL	BU-B42-S 7.0-8.0	BU-B43-S 3.0-4.0	BU-B43-S 3.0-4.0DL	BU-B43-S 7.0-8.0
SDG# Date	Industrial	Groundwater Protection	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05	R2527877 09/20/05
Acctor	4 000 000		40	05.1	4 000 11	00.11	0.1	40	00 ID	4.500.11	0.1	40 ID	4 500 11
Acetone Benzene	1,000,000 89,000	50 60	18 11 U	25 J 58 U	1,600 U 1,600 U	60 U 60 U	3 J 12 U	19 12 U	23 JD 62 U	1,500 U 1,500 U	8 J 12 U	16 JD 61 U	1,500 U 1,500 U
Bromobenzene	NS	NS	""	30 0	1,000 0	00 0	12 0	12 0	02 0	1,300 0	12 0	010	1,300 0
Bromochloromethane	NS	NS											
Bromodichloromethane	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Bromoform	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Bromomethane	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
2-Butanone	1,000,000	120	3 J	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
n-Butylbenzene	1,000,000	12,000											
sec-Butylbenzene	1,000,000	11,000											
tert-Butylbenzene Carbon Disulfide	1,000,000 NS	5,900 NS	11 U	58 U	1,600 U	60 U	12 U	1 J	62 U	1,500 U	12 U	61 U	1,500 U
Carbon Distillide Carbon Tetrachloride	44,000	760	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Chlorobenzene	1,000,000	1,100	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Chloroethane	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Chloroform	700,000	370	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Chloromethane	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
2-Chlorotoluene	NS	NS										1	
4-Chlorotoluene	NS	NS										1	
1,2-Dibromoethane	NS	NS											
Dibromomethane	NS	NS											
Dibromochloromethane	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
1,2-Dibromo-3-chloropropane	NS 4 000 000	NS											
1,2-Dichlorobenzene	1,000,000	1,100											
1,3-Dichlorobenzene 1,4-Dichlorobenzene	560,000	2,400											
Dichlorodifluoromethane	250,000 NS	1,800 NS											
1,1-Dichloroethane	480,000	270	2 J	240	190 JD	8 J	2 J	32	37 JD	170 J	28	25 JD	1,500 U
1,2-Dichloroethane	60,000	20	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
1,1-Dichloroethene	1,000,000	330	0.5 J	33 J	1,600 U	60 U	12 U	3 J	4 JD	1,500 U	2 J	61 U	1,500 U
trans-1,2-Dichloroethene	1,000,000	190	11 U	13 J	1,600 U	60 U	12 U	3 J	62 U	1,500 U	4 J	61 U	1,500 U
cis-1,2-Dichloroethene	1,000,000	250	22	7,500 ⊟	8,300 D	580	44	820 E	980 D	1,500 U	800 E	790 D	2,200
1,2-Dichloropropane	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
1,3-Dichloropropane	NS	NS											
2,2-Dichloropropane	NS	NS											
1,1-Dichloropropene	NS	NS											
trans-1,3-Dichloropropene	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
cis-1,3-Dichloropropene	NS 780,000	NS 1,000	11 U 11 U	58 U 58 U	1,600 U 1,600 U	60 U 60 U	12 U 12 U	12 U 12 U	62 U 62 U	1,500 U 1,500 U	12 U 12 U	61 U 61 U	1,500 U 1,500 U
Ethylbenzene Hexachlorobutadiene	760,000 NS	1,000 NS	110	56 U	1,600 0	60 0	12 0	12 0	62 0	1,500 0	12 0	610	1,500 0
2-Hexanone	NS NS	NS NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Isopropylbenzene	NS	NS NS	"	30 0	1,000 0	00 0	12 0	12 0	02 0	1,500 0	12 0	010	1,500 0
4-Isopropyltoluene	NS	NS											
Methylene Chloride	1,000,000	50	11 U	4 J	1,600 U	60 U	12 U	0.6 J	62 U	1,500 U	0.6 J	61 U	1,500 U
4-Methyl-2-Pentanone	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
Methyl-tert-butyl Ether	1,000,000	930											
Naphthalene	1,000,000	12,000											
n-Propylbenzene	1,000,000	3,900											
Styrene	NS	NS	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
1,1,1,2-Tetrachloroethane	NS	NS	44.1.	50.11	4 000 11	00.11	40.11	40.11	20.11	4.500.11	40.11	04.11	4 500
1,1,2,2-Tetrachloroethane Tetrachloroethene	NS	NS 1 200	11 U	58 U 58 U	1,600 U	60 U 60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U 1,500 U
Toluene	300,000 1,000,000	1,300 700	11 U 11 U	58 U	1,600 U 1,600 U	60 U	12 U 12 U	12 U 12 U	62 U 62 U	1,500 U 1,500 U	12 U 12 U	61 U 61 U	1,500 U
1,2,3-Trichlorobenzene	1,000,000 NS	NS	'''	36 0	1,000 0	00 0	12 0	12 0	02 0	1,300 0	12 0	310	1,500 0
1.2.4-Trichlorobenzene	NS NS	NS NS										1	
1,1,1-Trichloroethane	1,000,000	680	2 J	220	1,600 U	60 U	12 U	12 U	62 U	170 J	12 U	61 U	1,500 U
1,1,2-Trichloroethane	NS	NS	1 J	16 J	1,600 U	7 J	1 J	3 J	3 JD	49 J	12 U	61 U	1,500 U
Trichloroethene	400,000	470	11 U	900	590 JD	81	19	3 J	4 JD	3,400	2 J	61 U	230 J
Trichlorofluoromethane	NS	NS										1	
1,2,3-Trichloropropane	NS	NS										1	
1,2,4-Trimethylbenzene	380,000	3,600										1	
1,3,5-Trimethylbenzene	380,000	8,400											
Vinyl Chloride	27,000	20	11 U	11 J	1,600 U	60 U	12 U	7 J	6 JD	1,500 U	45	25 JD	1,500 U
o-Xylene (4)	1,000,000	1,600	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
m/p-Xylenes ⁽⁴⁾	1,000,000	1,600	11 U	58 U	1,600 U	60 U	12 U	12 U	62 U	1,500 U	12 U	61 U	1,500 U
T. (.) VOO TIO		No.	_	_		_		_	_	_	_		_
Total VOC TICs	NS	NS	0	0	0	0	0	0	0	0	0	0	0
	<u> </u>			Notos:								1	<u> </u>

- 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.
- 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
- 3. **Bold-faced** values are analytes that exceed Subpart 375.6 soil cleanup objective for Protection of Groundwater.
- 4. (4) = SCOs for total xylenes.
- 5. "NS" indicates no standard under part 375.6
- 6. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 7. "J" indicates an estimated value.

- 8. "U" indicates that the analyte was analyzed but not detected.
- 9. "B" indicates the analyte was found in the associated blank.
- 10. BU-DUP-S is a duplicate analysis of sample BU-B32-S.
- 11. BU-XX-S is a duplicate analysis of sample BU-B35-S.
- 12. * = Excavated during IRM.
- 13. Blank cell indicates no analysis for this parameter.

Table 12 Summary of Semi-Volatile Organic Compounds in Soil (μg/kg) Buell Automatics Rochester, NY

	Part 3	375 Soil					Monitor	ng Wells												Geo	oprobe Soil Bo	rings							
	ple ID Cleanup (Objectives 1	BU-MW2D-S	BU-MW6-S	BU-MW7-S	BU-MW8-S	BU-MW9-S	BU-MW10-S	BU-MW11-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-B8-S	BU-B9-S	BU-B10-S	BU-B11-S	BU-B12-S	BU-B13-S		BU-B15-S	B-15 (52680)	BU-B16-S	B-17 (52681)	·	BU-B18-S	BU-B36-S	BU-B36-S		BU-B43-S
Sample Depth (ft		Groundwater	8.0 - 10.0 R2213195	15.0 - 15.9 R2213195	16.0 - 18.0 B2242007	16.0 - 18.0 R2212007	4.0 - 6.0 R2213195	8.0 - 10.0 R2213195	10.0 - 12.0 R2213195	12.0 - 14.0 B2242007	12.0 - 14.0 R2212007	6.0 - 8.0 R2212007	1.8 - 2.5 R2213195	5.0 - 6.5 R2213195	3.0 - 3.7 R2213195	7.5 - 8.0 R2213195	4.0 - 5.3	3.0 - 3.8	3.5 - 4.0	4.5 - 5.0 R2213195	4 - 6	6.0 - 6.5	1.5 - 2	4.5 - 5.0 R2213195	4.5 - 5.0 R2213195	7.0-8.0	9.0-10.0	3.0-4.0	7.0-8.0
	SDG# Industrial Date	Protection	08/05/02	08/08/02	R2212007 05/21/02	05/21/02	08/06/02	08/05/02	08/07/02	R2212007 05/22/02	05/22/02	05/21/02	08/12/02	08/12/02	08/12/02	08/08/02	R2213195 08/08/02	R2213195 08/08/02	R2213195 08/08/02	08/09/02	DEC sample 08/09/02	R2213195 08/09/02	DEC sample 08/09/02	08/09/02	08/08/02	9/20/05	9/20/05	9/20/05	9/20/05
	4 000 000	00.000	440.11	070 11	070.11	100 11	400.11	0.000.11	070 11	400.11	400 11	400.11	0.000.11	0.000.11	0.000.11	400.11	000 11	400.11	400 11	0.400.11	200 11	450.11	100 11	4.400.11	0.400.11	400 11	400.11	440.11	440.11
Acenaphthene Acenaphthylene	1,000,000 1,000,000	98,000 107,000	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	3,600 U 820 J	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	380 U 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
Anthracene	1,000,000	1,000,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	1,700 J	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Benzo(a)anthracene	11,000	1,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	7,900	3,900 U	3,900 U	400 U	71 J	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Benzo(a)pyrene Benzo(b)fluoranthene	1,100 11,000	22,000 1,700	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	8,000 5,700	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	79 J 60 J	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
Benzo(g,h,i)perylene	1,000,000	1,000,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	4,600	3,900 U	3,900 U	400 U	57 J	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Benzo(k)fluoranthene	110,000	1,700	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	6,400	3,900 U	3,900 U	400 U	63 J	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Butyl benzyl phthalate	NS NS	NS NS	410 U 410 U	370 U	370 U 80 JB	400 U 81 JB	400 U	3,800 U 3,800 U	370 U	400 U 79 JB	420 U	400 U	3,600 U 3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U 51 J	2,100 U 2,100 U	208 U	450 U	196 U 196 U	4,100 U	2,100 U	400 U	400 U	410 U 410 U	410 U 410 U
Di-n-butylphthalate Carbazole	NS NS	NS NS	410 U	43 J 370 U	370 U	400 U	400 U 400 U	3,800 U	370 U 370 U	400 U	78 JB 420 U	64 JB 400 U	3,600 U	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	39 J 380 U	400 U 400 U	400 U	2,100 U	208 U 208 U	450 U 450 U	196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U	410 U
Indeno(1,2,3-cd)pyrene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	5,200	3,900 U	3,900 U	400 U	58 J	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
4-chloroaniline	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Bis(-2-chloroethoxy)methane Bis(-2-chloroethyl)ether	NS NS	NS NS	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	3,600 U 3,600 U	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	380 U 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
2-chloronaphthalene	NS	NS NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
2-chlorophenol	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
2,2'-oxybis(1-chloropropane)	NS	NS 1,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Chrysene Dibenz(a,h)anthracene	110,000 1,100	1,000 1,000,000	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	7,300 2,000 J	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	89 J 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
Dibenzofuran	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
1,3-dichlorobenzene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
1,2-dichlorobenzene	NS NS	NS NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
1,4-dichlorobenzene 3,3'-dichlorobenzidine	NS NS	NS NS	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	3,600 U 3,600 U	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	380 U 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
2,4-dichlorophenol	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Diethylphthalate	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Dimethyl phthalate	NS NS	NS NS	410 U 410 U	370 U	370 U 370 U	400 U	400 U	3,800 U 3,800 U	370 U	400 U 400 U	420 U	400 U 400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U 2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U 410 U
2,4-dimethylphenol 2,4-dinitrophenol	NS NS	NS NS	1,000 U	370 U 930 U	890 U	400 U 990 U	400 U 990 U	9,500 U	370 U 930 U	1,000 U	420 U 420 U	1,000 U	3,600 U 9,000 U	3,900 U 9,800 U	3,900 U 9,300 U	400 U 1,000 U	380 U 950 U	400 U 1,000 U	400 U 1,000 U	5,300 U	208 U 208 U	450 U 1,100 U	196 U 196 U	4,100 U 10,000 U	2,100 U 5,200 U	400 U 1,000 U	400 U 1,000 U	410 U 1,000 U	1,000 U
2,4-dinitrotoluene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
2,6-dinitrotoluene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Bis(2-ethylhexyl)phthalate	NS 1,000,000	NS 1,000,000	47 J 410 U	46 J 370 U	370 U 370 U	400 U 400 U	98 J 400 U	3,800 U 3,800 U	39 J 370 U	400 U	63 J 420 U	400 U 400 U	800 J 15,000	3,900 U	3,900 U 3,900 U	60 J 400 U	70 J	41 J 400 U	56 J 400 U	2,100 U 2,100 U	208 U	77 J	196 U 196 U	4,100 U 450 J	2,100 U 420 J	400 U 400 U	490 400 U	72 J 410 U	46 J 410 U
Fluoranthene Fluorene	1,000,000	386,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U 400 U	420 U	400 U	500 J	3,900 U 510 J	3,900 U	400 U	250 J 380 U	400 U	400 U	2,100 U	208 U 208 U	450 U 450 U	196 U	4,100 U	250 J	400 U	400 U	410 U	410 U
Hexachlorobenzene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Hexachlorobutadiene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Hexachlorocyclopentadiene Hexachloroethane	NS NS	NS NS	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	3,600 U 3,600 U	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	380 U 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
Isophorone	NS NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
2-methylnaphthalene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	1,700 J	3,500 J	740 J	630	380 U	400 U	400 U	360 J	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
4,6-dinitro-2-methylphenol	NS	NS	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	208 U	1,100 U	196 U	10,000 U	5,200 U	1,000 U	1,000 U	1,000 U	1,000 U
4-chloro-3-methylphenol 2-methylphenol	NS NS	NS NS	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	3,600 U 3,600 U	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	380 U 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
4-methylphenol	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Naphthalene	1,000,000	12,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	650 J	1,100 J	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	217	4,100 U	2,100 U	400 U	400 U	410 U	410 U
2-nitroaniline	NS NS	NS NS	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	420 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	208 U	1,100 U	196 U	10,000 U	5,200 U	1,000 U	1,000 U	1,000 U	1,000 U
3-nitroaniline 4-nitroaniline	NS NS	NS NS	1,000 U 1,000 U	930 U 930 U	890 U 890 U	990 U 990 U	990 U 990 U	9,500 U 9,500 U	930 U 930 U	1,000 U 1,000 U	1,000 U 1,000 U	1,000 U 1,000 U	9,000 U 9,000 U	9,800 U 9,800 U	9,700 U 9,700 U	1,000 U 1,000 U	950 U 950 U	1,000 U 1,000 U	1,000 U 1,000 U	5,300 U 5,300 U	208 U 208 U	1,100 U 1,100 U	196 U 196 U	10,000 U 10,000 U	5,200 U 5,200 U	1,000 U 1,000 U	1,000 U 1,000 U	1,000 U 1,000 U	1,000 U 1,000 U
Nitrobenzene	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	1,000 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
2-nitrophenol	NS	NS	410 U	370 U	370 U	990 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
4-nitrophenol N-nitrosodiphenylamine	NS NS	NS NS	1,000 U 410 U	930 U 370 U	890 U 370 U	990 U 400 U	990 U 400 U	9,500 U 3,800 U	930 U 370 U	1,000 U 400 U	1,000 U 420 U	1,000 U 400 U	9,000 U 3,600 U	9,800 U 3,900 U	9,700 U 3,900 U	1,000 U 400 U	950 U 380 U	1,000 U 400 U	1,000 U 400 U	5,300 U 2,100 U	208 U 208 U	1,100 U 450 U	196 U 196 U	10,000 U 4,100 U	5,200 U 2,100 U	1,000 U 400 U	1,000 U 400 U	1,000 U 410 U	1,000 U 410 U
Di-n-octyl phthalate	NS NS	NS NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U 420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U 2,100 U	400 U	400 U	410 U	410 U
Pentachlorophenol	55,000	800	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U	1,000 U	1,000 U	5,300 U	208 U	1,100 U	196 U	10,000 U	5,200 U	400 U	400 U	410 U	410 U
Phenanthrene	1,000,000	1,000,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,500 J	540 J	3,900 U	170 J	180 J	400 U	400 U	2,100 U	208 U	450 U	196 U	940 J	480 J	400 U	400 U	410 U	410 U
Phenol 4-bromophenyl-phenylether	1,000,000 NS	330 NS	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	3,600 U 3,600 U	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	380 U 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	1,000 U 400 U	1,000 U 400 U	1,000 U 410 U	1,000 U 410 U
4-chlorophenyl-phenylether	NS NS	NS NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
N-nitroso-di-n-propylamine	NS	NS	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	410 U	400 U	3,600 U	3,900 U	3,900 U	400 U	380 U	400 U	400 U	2,100 U	208 U	450 U	196 U	4,100 U	2,100 U	400 U	400 U	410 U	410 U
Pyrene	1,000,000	1,000,000	410 U	370 U	370 U	400 U	400 U	3,800 U	370 U	400 U	420 U	400 U	8,200	3,900 U	3,900 U	400 U	120 J	400 U	400 U	2,100 U	208 U	450 U		4,100 U	280 J	400 U	400 U	410 U	410 U
1,2,4-trichlorobenzene 2,4,6-trichlorophenol	NS NS	NS NS	410 U 410 U	370 U 370 U	370 U 370 U	400 U 400 U	400 U 400 U	3,800 U 3,800 U	370 U 370 U	400 U 400 U	420 U 420 U	400 U 400 U	3,600 U 3,600 U	3,900 U 3,900 U	3,900 U 3,900 U	400 U 400 U	380 U 380 U	400 U 400 U	400 U 400 U	2,100 U 2,100 U	208 U 208 U	450 U 450 U	196 U 196 U	4,100 U 4,100 U	2,100 U 2,100 U	400 U 400 U	400 U 400 U	410 U 410 U	410 U 410 U
2,4,5-trichlorophenol	NS NS	NS NS	1,000 U	930 U	890 U	990 U	990 U	9,500 U	930 U	1,000 U	1,000 U	1,000 U	9,000 U	9,800 U	9,700 U	1,000 U	950 U		1,000 U	5,300 U	208 U	1,100 U		10,000 U	5,200 U	1,000 U	1,000 U	1,000 U	1,000 U
Benzoic acid	NS	NS																			208 U		196 U						
Benzyl alcohol	NS NS	NS NC																			208 U		196 U						
Pyridine	NS	NS																			208 U		196 U						
Total SVOC TICs	NS	NS	1,617	1,656	174	2,206	0	139,500	2,241	3,005	3,695	2,545	271,640	345,810	191,100	37,870	5,260	2,830	2,490	27,000		30,810		136,300	92,700				
Notes:																													

- Notes:

 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.

 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.

 3. Bold-faced values are analytes that exceed Subpart 375.6 soil cleanup objective for Protection of Groundwater.

- 4. "NS" indicates no standard under part 375.6
- 5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 6. "J" indicates an estimated value.
- 7. "U" indicates that the analyte was analyzed but not detected.
- 8. "B" indicates the analyte was found in the associated blank.

 9. BU-XX-S-DUP is a duplicate analysis of sample BU-MW12-S.

Table 13 Summary of PCBs and Pesticides in Soil (μg/kg) Buell Automatics RI

Sample I	D Part 375 Soil Cle	anup Objectives T	BU-MW8-S	BU-MW-10-S	BU-MW13-S	BU-XX-S-DU	BU-B10-S	BU-B13-S	BU-B14-S	BU-B15-S	BU-B16-S	BU-B17-S	BU-B18-S
Sample Depth (ft. bgs	;)	Protection of	16.0-18.0	2.0-4.0	10.0 - 12.0	10.0 - 12.0	3.0-3.7	10.0 - 12.0	3.5 - 4.0	4.5 - 5.0	6.0 - 6.5	4.5 - 5.0	4.5 - 5.0
SDG	# Industrial	Groundwater	R2212007	R2213195	R2212007	R2212007	R2213195	R2213195	R2213195	R2213195	R2213195	R2213195	R2213195
Dat	е		05/21/02	08/05/02	05/22/02	05/22/02	08/12/02	08/08/02	08/08/02	08/09/02	08/09/02	08/09/02	08/08/02
PCBs	NO	NO			40.11		20.11	40.11	40.11	40.11		40.11	40.11
Aroclor-1016	NS	NS	40 U	38 U	40 U	41 U	39 U	40 U	40 U	42 U	44 U	40 U	42 U
Aroclor-1221	NS	NS	80 U	76 U	80 U	83 U	77 U	80 U	80 U	85 U	89 U	81 U	84 U
Aroclor-1232	NS	NS	40 U	38 U	40 U	41 U	39 U	40 U	40 U	42 U	44 U	40 U	42 U
Aroclor-1242	NS	NS	40 U	38 U	40 U	41 U	39 U	40 U	40 U	42 U	44 U	40 U	42 U
Aroclor-1248	NS	NS	40 U	38 U	40 U	41 U	39 U	40 U	40 U	42 U	44 U	40 U	42 U
Aroclor-1254	NS	NS	40 U	38 U	40 U	41 U	39 U	40 U	40 U	42 U	44 U	40 U	42 U
Aroclor-1260	NS	NS	40 U	38 U	40 U	41 U	39 U	40 U	40 U	42 U	44 U	40 U	42 U
Total PCBs	25,000	3,200											
Pesticides													
Aldrin	1,400	190	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	-	-	-	-
Alpha-BHC	6,800	20	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	_	-	-	-
Beta-BHC	14,000	90	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	_	-	-	-
Delta-BHC	1,000,000	250	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	-	-	-	-
Gamma-BHC (lindane)	23,000	100	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	-	-	-	-
Alpha-chlordane	47,000	2,900	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	-	-	-	-
Gamma-chlordane	NS	NS	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	_	_	-	_
4,4'-ddd	180,000	14,000	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	-	-	-	-
4,4'-dde	120,000	17,000	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	_	_	_	_
4,4'-ddt	94,000	136,000	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	-	-	-	-
Dieldrin	2,800	100	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	_	_	_	_
Endosulfan I	920,000	102,000	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	_	_	_	_
Endosulfan II	920,000	102,000	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	_	_	_	-
Endosulfan sulfate	920,000	1,000,000	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	-	-	-	-
Endrin	410,000	60	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	_	_	-	-
Endrin aldehyde	NS	NS	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	_	_	-	-
Endrin ketone	NS	NS	4.0 U	3.8 U	4.0 U	4.1 U	3.9 U	4.0 U	-	-	-	-	-
Heptachlor	29,000	380	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	-	-	-	-
Heptachlor epoxide	NS	NS	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	-	-	-	-	-
Methoxychlor	NS	NS	20.0 U	19.0 U	20.0 U	21.0 U	19.0 U	20.0 U	-	-	-	-	-
Toxaphene	NS	NS	200.0 U	190.0 U	200.0 U	210.0 U	190.0 U	200.0 U	-	-	-	-	_

- 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.
- 2. All results are expressed in micrograms per kilogram (µg/kg), which is equivalent to parts per billion.
- 3. N/A = not available.
- 4. B-14, B-15, B-16, B-17 and B-18 analyzed for PCBs only.
- 5. "U" indicates that the analyte was analyzed but not detected.
- 6. "NS" indicates no standard under part 375.6
- 7. BU-XX-S-DU is a duplicate sample of BU-MW13-S.

Table 14 Sumary of TAL Metals in Soil (mg/kg)

Buell Automatics RI Rochester, NY

Sample ID	Eastern	Part 375 Soil Clea	anup Objectives ¹	BU-MW7-S	BU-MW8-S	BU-MW10-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-B10-S	BU-B13-S	BU-B14-S	BU-B17-S	BU-B18-S
Sample Depth (ft. bgs)	USA		Protection of	14.0-16.0	18.0-20.0	2.0-4.0	12.0 - 14.0	12.0 - 14.0	6.0 - 8.0	3.0 - 3.7	3.0 - 3.8	3.5 - 4.0	4.5 - 5.0	4.5 - 5.0
SDG#	Background	Industrial	Groundwater	R2212007	R2212007	R2213195	R2212007	R2212007	R2212007	R2213195	R2213195	R2213195	R2213195	R2213195
Date	Levels			05/21/02	05/21/02	08/05/02	05/22/02	05/22/02	05/21/02	08/12/02	08/08/02	08/08/02	08/09/02	08/08/02
Silver	NA	6,800	8.3	0.97 U	1.10 U	0.20 U	1.10 U	1.10 U	1.10 U	0.22 U	0.22 U	0.22 U	0.18 U	0.23 U
Aluminum	33,000	NS	NS	4,410	7,050	4,240	1,820	1,980	1,970	6,930	5,310	3,670	2,930	2,960
Arsenic	3 - 12	16	16	1.60 B	2.10 B	2.00 B	0.66 B	0.56 U	2.80	2.40	1.00 B	2.20 B	1.20 B	1.40 B
Barium	15 - 600	10,000	820	43.10	59.80	20.60 B	9.90 B	10.60 B	57.70	48.50	21.60 B	16.60 B	16.90 B	17.80 B
Beryllium	0 - 1.75	2,700	47	0.30 B	0.26 B	0.08 B	0.24 U	0.26 U	0.24 U	0.15 B	0.08 B	0.04 U	0.05 B	0.06 B
Calcium	130 - 35,000	NS	NS	47,100	48,700	1,240	18,800	22,200	21,700	1,450	1,490	1,390	3,300	2,270
Cadmium	0.1 - 1	60	7.5	0.38 U	0.42 U	0.45 B	0.41 U	0.43 U	0.41 U	0.06 U	0.43 B	0.42 B	0.30 B	0.33 B
Cobalt	2.5 - 60	NS	NS	4.50 B	8.20 B	3.50 B	2.50 U	2.70 U	2.90 B	5.30 B	3.40 B	4.10 B	3.00 B	3.20 B
Chromium	1.5 - 40	800	19	7.4	12.7	6.1	3.1	3.1	4.1	9.1	13.5	4.3	5.2	5.2
Copper	1 - 50	10,000	1720	10.10	9.50	6.90	3.40 B	3.90 B	6.30	8.60	10.40	7.10	4.90	6.60
Iron	2,000 - 550,000	NS	NS	10,200	13,800	8,550	4,280	4,980	5,780	15,100	8,210	7,280	6,240	7,300
Mercury	0.001 - 0.2	5.7	0.73	0.01 U	0.01 U	0.01 B	0.01 U	0.01 U	0.01 U	0.02 B	0.01 B	0.01 U	0.01 B	0.01 U
Potassium	8,500 - 43,000	NS	NS	797 B	1,130 B	345 B	263 B	319 B	288 B	270 B	358 B	380 B	274 B	255 B
Magnesium	100 - 5,000	NS	NS	12,100	12,400	1,380	4,400	5,490	5,930	1,480	1,520	1,320	1,710	1,530
Manganese	50 - 5,000	10,000	2,000	316 N	393 N	430	183 N	207 N	622 N	237	267	197	103	97
Sodium	6,000 - 8,000	NS	NS	44.0 U	48.8 U	86.7 U	48.4 U	50.7 U	48.3 U	92.7 U	111.0 B	96.4 U	110.0 B	123.0 B
Nickel	0.5 - 25	10,000	130	10.2	14.7	5.8 B	4.0 B	5.2 B	5.1 B	8.8 B	7.7 B	6.8 B	6.1 B	7.1 B
Lead	200 - 500	3,900	450	4.30	3.50	2.40	0.88	0.98	1.80	4.00	2.20	2.30	2.00	2.50
Antimony	NA	NS	NS	1.80 UN	2.00 UN	0.60 U	2.00 UN	2.10 UN	2.00 UN	0.64 U	0.65 U	0.67 U	0.53 U	0.69 U
Selenium	0.1 - 3.9	6,800	4	0.33 UW	0.36 UW	0.44 U	0.36 UW	0.37 UW	0.37 U	0.47 U	0.47 U	0.49 U	0.39 U	0.50 U
Thallium	NA	NS	NS	0.56 UW	0.61 UW	0.32 U	0.61 UW	0.62 UW	0.62 UW	0.34 U	0.34 U	0.35 U	0.28 U	0.36 U
Vanadium	1 - 300	NS	NS	12.7	18.0	12.6	5.0 B	6.0 B	5.4 B	24.1	11.6	9.3 B	9.5	9.7 B
Zinc	9 - 50	10,000	2,480	26.2	34.7	18.1	13.2	12.0	14.0	20.8	17.9	28.7	14.7	17.2
Total Cyanide	NA	10,000	40	1.11 U	1.20 U	1.14 U	1.21 U	1.24 U	1.21 U	1.16 U	1.20 U	1.21 U	1.22 U	1.26 U

- 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.
- 2. All data reported in milligrams per kilogram (mg/kg) which is equivalent to parts per million.
- 3. NA = not available.
- 4. **Bold-faced** values are analytes that exceed Subpart 375.6 soil cleanup objective for Protection of Groundwater.
- 5. BU-XX-S-DU is a duplicate analysis of sample BU-MW12-S.
- 6. "B" indicates the analyte was found in the associated blank.
- 7. "U" indicates that the analyte was analyzed but not detected.
- 8. "W" indicates that post-digestion spike for Furnace AA is out of control limits.
- 9. "N" indicates presumptive evidence of a compound.
- 10. "SB" indicates site background.
- 11. Part 375 has separate criteria for hexavalent and trivalent chromium. Total chromium concentrations are compared with the more stringent criteria for hexavalent chromium.
- 12. "NS" indicates no standard under part 375.6

Table 15 Summary of Total Petroleum Hydrocarbons in Soil

Buell Automatics RI Rochester, NY

Sample ID	Part 375 Soil Clea	anup Objectives ¹	BU-B20-S	BU-B27-S	BU-B32-S	BU-DUP-S
Sample Depth (ft. bgs)		Protection of	3.5-4	3.5-4	3.5-4	3.5-4
SDG#	Industrial	Groundwater	R2213195	R2316744	R2316744	R2316744
Date			05/03/03	05/03/03	05/05/03	05/05/03
<u>TPH</u>						
As N-Dodecane	NS	NS	19,000	6,600	14,000	8,400
Fuel Oil #2/ Diesel Fuel	NS	NS	2,400 U	1,200 U	2,500 U	1,300 U
Gasoline	NS	NS	2,400 U	1,200 U	2,500 U	1,300 U
Kerosene	NS	NS	2,400 U	1,200 U	2,500 U	1,300 U
Lube Oil	NS	NS	2,400 U	1,200 U	2,500 U	1,300 U

- 1. NYSDEC. 6 NYCRR Part 375-6.8(a) and 6.8(b) Recommended Soil Cleanup Objectives, effective December 14, 2006.
- 2. All results are expressed in milligrams per kilogram (mg/kg), which is equivalent to parts per million.
- 3. "U" indicates that the analyte was analyzed but not detected.
- 4. "NS" indicates no standard under part 375.6
- 5. BU-DUP-S is a duplicate of BU-B32-S

Buell Automatics RI Rochester, NY

						Monitor	ing Wells				
Sample ID	NYSDEC Groundwater	BU-MW1-GW	BU-M	W2-GW	MW3	BU-MW3-GW	MW4	BU-MW5-GW		BU-MW6-GW	
SDG#	Standards and Guidance	R2213646	R2213646	R2631499	R2422723	R2631499	R2422723	R2213646	R2213646	R2422723	R2631499
Sample Date	Values ⁽¹⁾	09/12/02	09/10/02	05/01/06	08/24/04	05/01/06	08/24/04	09/10/02	09/11/02	08/24/04	05/01/06
Acetone	50 (G)	10 U	10 U	200 U	20 U	10 U	20 U	10 U	10 U	400 U	200 U
Benzene	1	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Bromodichloromethane	50 (G)	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Bromoform	50 (G)	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Bromomethane	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
2-Butanone	NS	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	200 U	200 U
Carbon Disulfide	60 (G)	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	200 U	200 U
Carbon Tetrachloride	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Chlorobenzene	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Chloroethane	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Chloroform	7	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Chloromethane	NS	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Dibromochloromethane	50 (G)	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
1.1-Dichloroethane	5	10 U	19	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
1,2-Dichloroethane	1	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
1,1-Dichloroethene	5	10 U	4 J	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
trans-1,2-Dichloroethene	5	10 U	6 J	26 J	5 U	10 U	5 U	10 U	10 U	100 U	200 U
cis-1,2-Dichloroethene	5	10 U	4,200 D	3,800	5 U	10 U	5 U	10 U	10 U	1,000	720
1,2-Dichloropropane	1	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
trans-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
cis-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	10 U	200 U	5 U	10 U	5 U	10 U	21	100 U	200 U
Ethylbenzene	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
2-Hexanone	50 (G)	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	200 U	200 U
Methylene Chloride	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
4-Methyl-2-Pentanone	NA	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	200 U	200 U
Styrene	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
1,1,2,2-Tetrachloroethane	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Tetrachloroethene	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Toluene	5	10 U	1 J	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
1,1,1-Trichloroethane	5	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	25 J
1,1,2-Trichloroethane	1	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
Trichloroethene	5	10 U	8 J	240	5 U	10 U	5 U	10 U	66	3,300	2400
Vinyl Chloride	2	10 U	470 D	560	5 U	10 U	5 U	10 U	10 U	100 U	50
o-Xylene	5 (total xylenes)	10 U	2 J	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
m/p-Xylenes	5 (total xylenes)	10 U	10 U	200 U	5 U	10 U	5 U	10 U	10 U	100 U	200 U
	, ,										
Total VOC TICs	NS	7	0		41 J		0	0	0		

- 1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division
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- 5. (G) indicates guidance value.
- 6. NA indicates the POC groundwater standard is Not Applicable.
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- 8. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 9. NS = No Standard.

Buell Automatics RI Rochester, NY

							Monit	oring Wells					
Sample ID	NYSDEC Groundwater		BU-MW7-GW		BU-MV	V8-GW	_	N9-GW	BU-MW	10-GW		BU-MW11-GW	
SDG#	Standards and Guidance	R2213646	R2422723	R2631499	R2213646	R2631499	R2213646	R2631499	R2213646	R2631499	R2316048	R2422723	R2631499
Sample Date	Values (1)	09/11/02	08/24/04	05/01/06	09/10/02	05/01/06	09/11/02	05/01/06	09/11/02	05/01/06	03/13/03	08/24/04	05/01/06
Acetone	50 (G)	10 U	20 U	10 U	200 U	200 U	10 U	8.9 J	500 U	200 U	20 U	20 U	40 U
Benzene	1	10 U	5 U	10 U	200 U	200 U	1 J	20 U	500 U	200 U	20 U	5 U	40 U
Bromodichloromethane	50 (G)	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Bromoform	50 (G)	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Bromomethane	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
2-Butanone	NS	10 U	10 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	10 U	40 U
Carbon Disulfide	60 (G)	44	10 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	10 U	40 U
Carbon Tetrachloride	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Chlorobenzene	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Chloroethane	5	10 U	5 U	10 U	200 U	200 U	9 J	5.4 J	500 U	200 U	20 U	5 U	40 U
Chloroform	7	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Chloromethane	NS	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Dibromochloromethane	50 (G)	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
1,1-Dichloroethane	5	10 U	5 U	10 U	200 U	14 J	140	170	490 J	330	58	24	87
1,2-Dichloroethane	1	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
1.1-Dichloroethene	5	3 J	5 U	10 U	200 U	200 U	2 J	20 U	500 U	200 U	20 U	5 U	6 J
trans-1.2-Dichloroethene	5	2 J	5 U	10 U	200 U	200 U	2 J	1.9 J	61 J	200 U	20 U	5 U	4 J
cis-1,2-Dichloroethene	5	170	8.3	20	200 U	3,300	220 D	250	8,300	3,000	310	200	740
1,2-Dichloropropane	1	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
trans-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
cis-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	5 U	10 U	510	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Ethylbenzene	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
2-Hexanone	50 (G)	10 U	10 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	10 U	40 U
Methylene Chloride	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
4-Methyl-2-Pentanone	NA	10 U	10 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	10 U	40 U
Styrene	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
1,1,2,2-Tetrachloroethane	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Tetrachloroethene	5	10 U	8.4	2 J	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
Toluene	5	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
1.1.1-Trichloroethane	5	10 U	5 U	10 U	200 U	200 U	13	9 J	500 U	200 U	15 J	8.6	21 J
1.1.2-Trichloroethane	1	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	2 J
Trichloroethene	5	97	5.8	10 0	2,300	1,700	160	20 0	1,100	160 J	65	61	110
Vinyl Chloride	2	25	5.0	2 J	2,300 33 J	1,700 150 J	36	53	2,000	910	29	19	45
o-Xylene	5 (total xylenes)	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	29 20 U	5 U	40 U
m/p-Xylenes	5 (total xylenes) 5 (total xylenes)	10 U	5 U	10 U	200 U	200 U	10 U	20 U	500 U	200 U	20 U	5 U	40 U
III/p-Aylettes	o (total xylenes)	10 0		10 0	200 0	200 0	10 0	200	500 0	200 0	20 0		40 0
Total VOC TICs	NS	0			0		0		0		0		

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- 4. "J" indicates an estimated value.
- 5. (G) indicates guidance value.
- 6. NA indicates the POC groundwater standard is Not Applicable.
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- 8. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 9. NS = No Standard.

Buell Automatics RI Rochester, NY

							Monitoring We	lls				
Sample ID	NYSDEC Groundwater	BU-MW12-GW	BU-MW13-GW	BU-MW	14-GW		BU-MW15-GW			BU-MW	I6-GW	
SDG#	Standards and Guidance	R2213646	R2213646	R2316048	R2422723	R2316048	R2316048	R2422723	R2631499	BU-DUP-GW	DEC MW-16	R2633662
Sample Date	Values (1)	09/11/02	09/10/02	03/13/03	08/24/04	03/13/03	BU-DUP	08/24/04	05/01/06	05/01/06	05/01/06	09/15/06
Acetone	50 (G)	10 U	10 U	10 U	20 U	10 U	10 U	20 U	4,000 U	200 U	25 U	10,000 U
Benzene	1	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5.6	1,000 U
Bromodichloromethane	50 (G)	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Bromoform	50 (G)	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Bromomethane	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	2,000 U
2-Butanone	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4,000 U	200 U	25 U	5,000 U
Carbon Disulfide	60 (G)	3 J	10 U	10 U	10 U	10 U	10 U	10 U	4,000 U	200 U	5 U	1,000 U
Carbon Tetrachloride	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Chlorobenzene	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Chloroethane	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	2,000 U
Chloroform	7	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Chloromethane	NS	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	2,000 U
Dibromochloromethane	50 (G)	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	2,000 U
1.1-Dichloroethane	5	10 U	10 U	12	22	10 U	10 U	5 U	2,800 J	340	3,300 D	3,600
1,2-Dichloroethane	1	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	4.5 J	1,000 U
1.1-Dichloroethene	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	780 J	200 U	670 E	1,600
trans-1,2-Dichloroethene	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	31 J	900 E	1,000 U
cis-1.2-Dichloroethene	5	10 U	10 U	100	120	6.1 J	5.0 J	22	120,000 D	2,800	160,000 D	150,000
1,2-Dichloropropane	1	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
trans-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
cis-1,3-Dichloropropene	0.4 (-cis and -trans)	6 J	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Ethylbenzene	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
2-Hexanone	50 (G)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4,000 U	200 U	25 U	5,000 U
Methylene Chloride	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
4-Methyl-2-Pentanone	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4,000 U	200 U	25 U	1,000 U
Styrene	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Tetrachloroethene	5	18	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
Toluene	5	10 U	10 U	10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	5 U	1,000 U
1.1.1-Trichloroethane	5	10 U	10 U	2.8 J	5 U	10 U	10 U	5 U	4,000	200 U	3,900 D	5,800
1,1,2-Trichloroethane	J 1	10 U	10 U	2.6 J 10 U	5 U	10 U	10 U	5 U	4,000 U	200 U	3,900 D 65	1,000 U
Trichloroethene	1 5	7 J	10 U	3.4 J	8	10 U	10 U	5 U	8,200	170 J	7,800 D	15,000 O
	5 2	7 J 10 U	10 U	3.4 J 10 U	5 U	10 U	10 U	5 U	640 J	890	7,800 D 520 E	15,000 1,000 U
Vinyl Chloride	-				5 U				4,000 U	200 U		1,000 U
o-Xylene	5 (total xylenes)	10 U	10 U	10 U	5 U	10 U	10 U	5 U			15 U	
m/p-Xylenes	5 (total xylenes)	10 U	10 U	10 U	5 0	10 U	10 U	5 U	4,000 U	200 U	15 U	1,000 U
Total VOC TICs	NS	0	0	0		0	0					

Note

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- 3. **Bold-faced** values are samples that exceed Class GA groundwater standards and guidance values.
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- 5. (G) indicates guidance value.
- 6. NA indicates the POC groundwater standard is Not Applicable.
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- 9. NS = No Standard.

Buell Automatics RI Rochester, NY

					Monitoring Wel	ls		
Sample ID	NYSDEC Groundwater		BU-MW17-GW			V-1	RV	V-2
SDG#	Standards and Guidance	R2631499	DEC MW-17	R2633662	R2419875	R2631499	R2419875	R2631499
Sample Date	Values ⁽¹⁾	05/01/06	05/01/06	09/15/06	01/13/04	05/02/06	01/13/04	05/02/06
Acetone	50 (G)	10 U	1 U	10 U	14	200 U	10 U	2,000 U
Benzene	1	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Bromodichloromethane	50 (G)	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Bromoform	50 (G)	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Bromomethane	5	10 U	1 U	2 U	10 U	200 U	10 U	2,000 U
2-Butanone	NS	10 U	1 U	5 U	7 J	200 U	10 U	2,000 U
Carbon Disulfide	60 (G)	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Carbon Tetrachloride	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Chlorobenzene	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Chloroethane	5	10 U	1 U	2 U	10 U	200 U	10 U	2,000 U
Chloroform	7	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Chloromethane	NS	10 U	1 U	2 U	10 U	200 U	10 U	2,000 U
Dibromochloromethane	50 (G)	10 U	1 U	2 U	10 U	200 U	10 U	2,000 U
1,1-Dichloroethane	5	10 U	1 U	1 U	8 J	250	10 U	160 J
1,2-Dichloroethane	1	10 U	1 U	1 U	10 U	200 U	120 J	2,000 U
1,1-Dichloroethene	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
trans-1,2-Dichloroethene	5	10 U	1 U	1 U	10 U	27 J	10 U	2,000 U
cis-1,2-Dichloroethene	5	10 U	1 U	1 U	33	4,600 D	15,000	27,000
1,2-Dichloropropane	1	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
trans-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
cis-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Ethylbenzene	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
2-Hexanone	50 (G)	10 U	1 U	5 U	10 U	200 U	10 U	2,000 U
Methylene Chloride	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
4-Methyl-2-Pentanone	NA	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Styrene	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
1,1,2,2-Tetrachloroethane	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Tetrachloroethene	5	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Toluene	5	10 U	1 U	1 U	8 J	200 U	10 U	2,000 U
1,1,1-Trichloroethane	5	10 U	1 U	1 U	10 U	200 U	200 J	230 J
1,1,2-Trichloroethane	1	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
Trichloroethene	5	10 U	1 U	1 U	10 U	400	8,100	13,000
Vinyl Chloride	2	10 U	1 U	1 U	14	1,200	440 J	2,000 U
o-Xylene	5 (total xylenes)	10 U	1 U	1 U	10 U	200 U	10 U	2,000 U
m/p-Xylenes	5 (total xylenes)	10 U	1 U	1 U	1 J	200 U	10 U	2,000 U
Total VOC TICs	NS							

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- 6. NA indicates the POC groundwater standard is Not Applicable.
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- 8. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 9. NS = No Standard.

TABLE 17 SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER: GEOPROBE BORINGS

Buell Automatics Rochester, New York

					GR		SAMPLES - GEO	PROBE BORIN	IGS			
Sample ID	NYSDEC Groundwater	BU-B11-GW	BU-B13-GW	BU-B14-GW	BU-B15-GW	BU-B16-GW	BU-B16-W-RB	BU-B17-GW	BU-B18-GW	BU-B	19-W	BU-B27-W
SDG#	Standards and Guidance	R2213195	R2213195	R2213195	R2213195	R2213195	R2213195	R2213195	R2213195	R2316744	DUP	R2316744
Date	Values ⁽¹⁾	08/08/02	08/08/02	08/08/02	08/09/02	08/09/02	08/09/02	08/09/02	08/08/02	05/05/03	05/05/03	05/03/03
Acetone	50 (G)	10 U	10 U	10 U	10 U	10 U	10 U	11	10 U	10 U	10 U	13
Benzene	1	10 U	10 U	10 U	3 J	4 J	10 U	10 J	2 J	10 U	10 U	10 U
Bromodichloromethane	50 (G)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50 (G)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	60 (G)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	3 J	10 U	2 J	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50 (G)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	5	4 J	10 U	10 U	10 U	24	10 U	240 D	10 U	10 U	10 U	10 U
1,2-Dichloroethane	1	10 U	10 U	10 U	10 U	10 U	10 U	6 J	10 U	10 U	10 U	10 U
1,1-Dichloroethene	5	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	2 J	10 U	10 U	10 U	2 J	10 U	12	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	5	280 D	38	6 J	3 J	3 J	10 U	700 D	10 U	10 U	10 U	10 U
1,2-Dichloropropane	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	0.4 (-cis and -trans)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	2 J	10 U	10 U	5 J	5 J	4 J	4 J	10 U
2-Hexanone	50 (G)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	66 D	23	33	10 U	10 U	10 U	2 J	10 U	4 J	4 J	10 U
Vinyl Chloride	2	64 D	10 U	10 U	10 U	3 J	10 U	1,300 D	10 U	10 U	10 U	10 U
o-Xylene	5 (total xylenes)	10 U	10 U	10 U	10 U	10 U	10 U	18	10 U	10 U	10 U	10 U
m/p-Xylenes	5 (total xylenes)	10 U	10 U	10 U	10 U	10 U	10 U	6 J	10 U	10 U	10 U	10 U
	No.	4=-			40.1			0.001	4.000	4=-	4	050
Total VOC TICs	NS	172	0	0	421	65	0	2,304	4,990	176	170	250

- 1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
- 2. All results are expressed in micrograms per liter (ug/L), which is equivalent to parts per billion.
- 3. **Bold-faced** values are samples that exceed Class GA groundwater standards and guidance values.
- 4. "J" indicates an estimated value.
- 5. (G) indicates guidance value.
- 6. NA indicates the POC groundwater standard is Not Applicable.
- 7. "U" indicates that the analyte was analyzed but not detected.
- 8. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 9. NS = No Standard.

TABLE 18 SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

Buell Automatics Rochester, NY

								GROUNDWA	TER SAMPLES						
Sample I	NYSDEC Groundwater	BU-MW1-GW	BU-MW2-GW	BU-XX-GW-DU	BU-MW5-GW	BU-MW6-GW	BU-MW7-GW	BU-MW8-GW	BU-MW9-GW	BU-MW	/10-GW	BU-MW12-GW	BU-MW13-GW	BU-MW16-GW	BU-DUP-GW
SDG		R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2631499	R2213646	R2213646	R2631499	R2631499
Dat	e Values ⁽¹⁾	09/12/02	09/10/02	09/10/02	09/10/02	09/11/02	09/11/02	09/10/02	09/11/02	09/11/02	05/01/06	09/11/02	09/10/02	05/01/06	05/01/06
Acenaphthene	20	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	1 J	210 U
Acenaphthylene	NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Anthracene	50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Benzo(a)anthracene	0.002	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Benzo(a)pyrene	0.002	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Benzo(b)fluoranthene	0.002	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Benzo(g,h,i)perylene	NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Benzo(k)fluoranthene	0.002	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Butyl benzyl phthalate	50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Di-n-butylphthalate	NS	3 JB	1 JB	2 JB	3 JB	1 JB	1 JB	1 JB	2 JB	2 JB	500 U	5 JB	2 JB	9 U	210 U
Carbazole	NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	2 J	210 U
Indeno(1,2,3-cd)pyrene	0.002	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
4-chloroaniline	5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Bis(-2-chloroethoxy)methane	5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Bis(-2-chloroethyl)ether	1	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2-chloronaphthalene	10	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2-chlorophenol	2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2,2'-oxybis(1-chloropropane)	NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Chrysene	0.002	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Dibenz(a,h)anthracene	NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Dibenzofuran	NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
1,3-dichlorobenzene	3	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
1,2-dichlorobenzene	3	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
1,4-dichlorobenzene	3	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
3,3'-dichlorobenzidine	5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2,4-dichlorophenol	2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Diethylphthalate	50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Dimethyl phthalate	50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2,4-dimethylphenol	2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2,4-dinitrophenol	2	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
2,4-dinitrotoluene	5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2,6-dinitrotoluene	5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Bis(2-ethylhexyl)phthalate	5	1 J	10 U	9 U	2 J	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	1 J	210 U
Fluoranthene	50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	1 J	210 U
Fluorene	50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Hexachlorobenzene	0.04	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Hexachlorobutadiene	0.5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Hexachlorocyclopentadiene	5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Hexachloroethane	5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Isophorone	50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2-methylnaphthalene	4.7	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
4,6-dinitro-2-methylphenol	2	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
4-chloro-3-methylphenol	2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2-methylphenol	2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U 2 J	210 U
4-methylphenol	2	9 U	10 U	9 U	10 U	12 U	10 U	10 U		9 U	500 U	9 U	9 U	2 J 3 J	210 U 210 U
	10								9 U						
Naphthalene	10	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	27	210 U

TABLE 18 SUMMARY OF SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

Buell Automatics Rochester, NY

									GROUNDWA	TER SAMPLES						
	Sample ID	NYSDEC Groundwater	BU-MW1-GW	BU-MW2-GW	BU-XX-GW-DU	BU-MW5-GW	BU-MW6-GW	BU-MW7-GW	BU-MW8-GW	BU-MW9-GW	BU-MV	V10-GW	BU-MW12-GW	BU-MW13-GW	BU-MW16-GW	BU-DUP-GW
	SDG#	Standards and Guidance	R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2213646	R2631499	R2213646	R2213646	R2631499	R2631499
	Date	Values ⁽¹⁾	09/12/02	09/10/02	09/10/02	09/10/02	09/11/02	09/11/02	09/10/02	09/11/02	09/11/02	05/01/06	09/11/02	09/10/02	05/01/06	05/01/06
2-nitroaniline		5	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
3-nitroaniline		5	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
4-nitroaniline		5	6 J	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
Nitrobenzene		0.4	3 J	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2-nitrophenol		2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
4-nitrophenol		2	1 J	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
N-nitrosodiphenylamine		NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Di-n-octyl phthalate		50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Pentachlorophenol		2	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
Phenanthrene		50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
Phenol		2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	2 J	9 U	9 U	210 U
4-bromophenyl-phenylether		NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
4-chlorophenyl-phenylether		NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
N-nitroso-di-n-propylamine		NS	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	59 J
Pyrene		50	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
1,2,4-trichlorobenzene		5	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2,4,6-trichlorophenol		2	9 U	10 U	9 U	10 U	12 U	10 U	10 U	9 U	9 U	500 U	9 U	9 U	9 U	210 U
2,4,5-trichlorophenol		2	23 U	24 U	24 U	26 U	31 U	24 U	24 U	24 U	23 U	1200 U	24 U	24 U	23 U	520 U
Total SVOC TICs		NS	55	120	194	41	61	99	167	289	252	8980	93	68	24	9150

- 1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
- 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
- 3. NS indicates no standard is available.
- 4. **Bolded** values are samples that exceed Class GA groundwater standards and guidance values.
- 5. "J" indicates an estimated value.
- 6. "B" indicates analyte found in the associated blank.
- 7. "U" indicates that the analyte was analyzed but not detected.
- 8. BU-XX-GW-DU is a duplicate analysis of sample MW-2.

TABLE 19 SUMMARY OF PCBs AND PESTICIDES IN GROUNDWATER

Buell Automatics Rochester, NY

		GRO	UNDWATER SAME	PLES		NYSDEC Groundwater
Sample ID	BU-MW2-GW	BU-DUP-GW	BU-MW5-GW	BU-MW8-GW	BU-MW13-GW	
SDG#	R2213646	R2213646	R2213646	R2213646	R2213646	Standards and Guidance
Date	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02	Values (1)
Aroclor-1016	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
Aroclor-1016 Aroclor-1221	2.00 U	0.95 U 1.90 U	1.90 U	0.93 U 1.90 U	1.90 U	0.09
		0.95 U		0.93 U		
Aroclor-1232	0.98 U		0.94 U		0.95 U	0.09
Aroclor-1242	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
Aroclor-1248	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
Aroclor-1254	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
Aroclor-1260	0.98 U	0.95 U	0.94 U	0.93 U	0.95 U	0.09
Aldrin	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.002
Alpha-bhc	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
Beta-bhc	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
Delta-bhc	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
Gamma-bhc (lindane)	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	N/A
Alpha-chlordane	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.05
Gamma-chlordane	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.05
4,4'-ddd	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.3
4,4'-dde	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.2
4,4'-ddt	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.2
Dieldrin	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.004
Endosulfan i	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.22
Endosulfan ii	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.22
Endosulfan sulfate	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	N/A
Endrin	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	0.2
Endrin aldehyde	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	5
Endrin ketone	0.098 U	0.095 U	0.094 U	0.093 U	0.095 U	5
Heptachlor	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.04
Heptachlor epoxide	0.049 U	0.048 U	0.047 U	0.047 U	0.048 U	0.03
Methoxychlor	0.49 U	0.48 U	0.47 U	0.47 U	0.48 U	35
Toxaphene	4.90 U	4.80 U	4.70 U	4.70 U	4.80 U	0.06

- NYSDEC. October 22, 1993. Ambient Water Quality Standards Guidance Series (TOGS). Reissued June 1998. April 2000 Addendum.
- 2. All results are expressed in milligrams per liter (mg/L) which is equivalent to parts per million.
- 3. N/A = not available.
- 4. **Bolded** values are samples that exceed Class GA groundwater standards.
- 6. "U" indicates that the analyte was analyzed but not detected.
- 7. BU-XX-GW-DU is a duplicate analysis of sample MW-2.

TABLE 20 SUMMARY OF TAL METALS IN GROUNDWATER

Buell Automatics Rochester, NY

				GRO	UNDWATER SAME	PLES	
	Sample ID	NYSDEC Groundwater	BU-MW2-GW	BU-DUP-GW	BU-MW5-GW	BU-MW8-GW	BU-MW13-GW
	SDG#	Standards and Guidance	R2213646	R2213646	R2213646	R2213646	R2213646
	Date	Values (1)	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02
0.1		50	0.04.11	0.04.11	0.04.11	0.04.11	0.04.11
Silver		50	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U
Aluminum		100	221	208	856	25 B	607
Arsenic		50	3.8 B	5.7 B	1.8 U	11.3	1.8 U
Barium		1,000	226	228	42.5 B	16.0 B	39.9 B
Beryllium		11	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Calcium		N/A	99,600	99,800	190,000	39,500	149,000
Cadmium		5	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Cobalt		5	2.7 U	2.7 U	2.8 B	2.7 U	2.7 U
Chromium		50	3.1 B	2.9 B	3.8 B	0.8 B	3.9 B
Copper		200	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U
Iron		300	796	809	936	27 B	694
Mercury		0.7	0.06 B	0.01 U	0.02 B	0.01 U	0.01 U
Potassium		N/A	2,310 B	2,410 B	2,770 B	583 B	3,260 B
Magnesium		35,000	39,500	39,500	42,200	8,850	43,400
Manganese		30	880	863	1,610	64	380
Sodium		N/A	155,000	156,000	183,000	73,700	255,000
Nickel		100	7.0 B	7.7 B	7.4 B	3.2 B	2.8 B
Lead		50	1.1 U	1.1 U	2.6 B	1.1 U	1.1 U
Antimony		3	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Selenium		10	1.8 UW	1.8 UW	3.5 U	1.8 UW	3.5 UW
Thallium		8	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Vanadium		14	1.9 U	1.9 U	2.0 B	7.9 B	1.9 U
Zinc		2,000	8.6 B	7.0 B	11.8 B	6.9 U	6.9 U
Total Cyanide		N/A	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

- 1. NYSDEC. October 22, 1993. Ambient Water Quality Standards Guidance Series (TOGS). Reissued June 1998. April 2000 Addendum.
- 2. All results are expressed in milligrams per liter (mg/L) which is equivalent to parts per million.
- 3. N/A = not available.
- ${\bf 4.} \ \ \textbf{Bolded} \ \ \text{values are analytes that exceed Class GA groundwater standards}.$
- 6. "U" indicates that the analyte was analyzed but not detected.
- 7. "W" indicates that post-digestion spike for Furnace AA is out of control limits.
- 8. BU-DUP-GW is a duplicate analysis of sample MW-2.
- 9. "B" indicates analyte found in the associated blank.

Summary of Air and Sump Water Sampling Results - Comfort Inn Buell Automatics RI Rochester, NY Table 21

Sample area		Room 122	122			Basemen	nent		Outdoor		Soil Vapor / Indoor	Recommended
Sample number	SG-1		BA-1	7	SG-2A	_	BA-2A	Ä	BK-1	<u>.</u>	Air Matrix (4)	Action (5,6)
Sample date	1/28/2004)04	1/28/2004	004	2/6/2004	4	2/6/2004)04	1/28/2004	004		
	Result	MRL	MRL Result MRL	MRL	Result MRL Result MRL Result MRL	MRL	Result	MRL	Result	MRL		
VOC Compounds	µg/m³	µg/m³	μg/m³	μg/m³	µg/m³ µg/m³ µg/m³ µg/m³ µg/m³ µg/m³ µg/m³ µg/m³ µg/m³ µg/m³	µg/m³	µg/m³	µg/m³	μg/m³	µg/m³		
Vinyl Chloride	ND	0.71	ND	0.74	DN	130	ND	ND 0.68	ND	0.63	Matrix 1	No Further Action
1,1-Dichloroethane	ND	0.71	ND	0.74	ND	130	ND	0.68	ND	0.63	0.63 No Applicable Matrix	NA
cis-1,2-Dichloroethene	ND	0.71	ND	0.74	5,200	130	ND	0.68	ND	0.63	Matrix 2	Mitigate
Trichloroethene	4.3	0.71	ND	0.74	9,900	130	ND	0.68	ND	0.63	Matrix 1	Mitigate
trans-1,2-Dichloroethene	ND	0.71	ND	0.74	160	130	ND	0.68	ND	0.63	0.63 No Applicable Matrix	NA
Tetrachloroethene	0.79	0.71	ND	0.74	ND 0.74 21,000	130 1.1		0.68	ND	0.63	Matrix 2	Mitigate

- Notes:

 1. ND = Compound was analyzed for, but not detected above the method reporting limit. SG = soil gas. BA = building air.

 2. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.

 3. Samples analyzed by EPA Method TO-15.

 4. Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

 4. Guidance for Evaluating Soil Vapor New York State Department of Health (NYSDOH), Ce
- Environmental Health, Bureau of Environmental Exposure. Final Guidance, October 2006. New York State Department of Health (NYSDOH), Center for
- Ģ
- 6 Soil Vapor / Indoor Air Matrix 1; Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Final Guidance, October 2006. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure
- Soil Vapor / Indoor Air Matrix 2; Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Final Guidance, October 2006. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- .7 Bold-faced values are concentrations that have been reported above the method reporting limits.

SUMP	WATER S/	MPLES	
BU-SW1	BU-SW2	Trip Blank	NYSDEC GW
1/26/2004	1/26/2004	1/26/2004	Standards and
			Guidance Values (1)
69	68	5.0 U	σ
100	120	5.0 U	51
67	100	5.0 U	ហ
	SUMP BU-SW1 1/26/2004 1/26/2004 69 100 67	SUMP WATER SJ BU-SW1 BU-SW2 1/26/2004 1/26/2004 1/26/2004 1/26/2004 69 89 100 120 67 100	SUMP WATER SAN SW1 BU-SW2 T /2004 1/26/2004 89 120 100

- Notes:

 1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.

 2. All results are expressed in micrograms per liter (ug/L), which is equivalent to parts per billion (ppb).

Summary of Air Sampling Results - Five Star Tool Company Table 22

Buell Automatics RI Rochester, NY

Sample medium Sub-Slab Vapor	Sub-Slat	ว Vapor	Soil Vapor /	Recommended
Sample number	32905-1	5-1	Indoor Air	Action (4)
Sample date	3/29/2005	2005	Matrix ⁽⁴⁾	
	Result	MRL		
VOC Compound	(µg/m³)	(µg/m³)		
Vinyl Chloride	ND	1.4	Matrix 1	No further action
1,1-Dichloroethane	4.2	1.4	Not assigned	NA
cis-1,2-Dichloroethene	9.1	1.4	Matrix 2	No further action
Trichloroethene	340	1.4	Matrix 1	Mitigate

Notes:

- ND = Compound was analyzed for, but not detected above the method reporting limit.
- Ы MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- ω, 4, Samples analyzed by EPA Method TO-15.
- Final Guidance, October 2006. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure. Guidance for Evaluating Soil Vapor Intrusion in the State of New York.
- Ò **Bold-faced** values are concentrations that have been reported above the method reporting limits.

Sample medium Sample number	Indoor Air 32905-2	r Air 5-2	USEPA BASE ⁽⁴⁾ Data (indoor	NYSDOH Air Guideline	USEPA Target Indoor Ain Concentration ⁽⁶⁾	et Indoor Air ration ⁽⁶⁾	Outdoor Air 32905-3	or Air 5-3
Sample date	3/29/2005	2005	background)	Value ⁽⁵⁾			3/29/2005	005
	Result	MRL	Indoor	Indoor	Indoor- 1×10^{-5} Indoor - $1 \times$	Indoor - 1 x 10 ⁻⁶	Result	MRL
VOC Compound	(µg/m³) (µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)
Vinyl Chloride	N D	1.5	<0.6 - 7.5	5 (9)	Not applicable	Not applicable	N D	1 .8
1,1-Dichloroethane	N	1.5	<0.2 - <0.9	N A	500	50	N	1.8
cis-1,2-Dichloroethene	1.6	1.5	<0.6 - <2.3	100 (10)	Not applicable	Not applicable	N	1.8
Trichloroethene	ND	1.5	<0.6 - 88.5	Ŋ	Not applicable	Not applicable	N	1.8

- ND = Compound was analyzed for, but not detected above the method reporting limit.
 MRL = Method Reporting Limit The minimum quantity of a target analyte that can be determined by the referenced method.
 Samples analyzed by EPA Method TO-15.
- 9 4 5
- <u>ი</u> Building Assessment and Survey Evaluation (BASE 2001); USEPA.

 Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Final Guidance, October 2006.

 NYSDOH, Center for Environmental Health, Bureau of Environmental Exposure.

 Draft Guidance For Evaluating The Vapor Intrusion To Indoor Air Pathway From Groundwater And Soils.

 United States Environmental Protection Agency, Office of Solid Waste and Emergency Response, November 2002.
- NA = not available.
- φ **Bold-faced** values are concentrations that have been reported above the method reporting limits.
- ဖွ Assumes the same value as the NYSDOH Air Guideline for TCE.
- Assumes the same value as the NYSDOH Air Guideline for PCE.

Summary of Air Sampling Results - 1166 Brooks Avenue Table 23

Buell Automatics RI Rochester, NY

Sample medium	Sub-Slah Vanor	Vanor	Sub-Slab Vapor	Vanor	Soil Vapor / Indoor	Recommended
Sample number	BU-1166-SS-1	-SS-1	BU-1166-SS-2	3-SS-2	Air Matrix (4)	Action (5,6)
Sample date	3/23/2006	006	3/23/2006	906		
	Result	MRL	Result	MRL		
VOC Compound	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)		
Vinyl Chloride	ND	0.72	ND	0.71	Matrix 1	No Further Action
1,1-Dichloroethane	N D	0.72	1.6	0.71	No Applicable Matrix	NA
cis-1,2-Dichloroethene	ND	0.72	1.2	0.71	Matrix 2	No Further Action
Trichloroethene	N D	0.72	13	0.71	Matrix 1	No Further Action
Trans-1,2-Dichloroethene	N D	0.72	ND	0.71	No Applicable Matrix	NA
Tetrachloroethene	0.98	0.72	5.1	0.71	Matrix 2	No Further Action

- ND = Compound was analyzed for, but not detected above the method reporting limit. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- Samples analyzed by EPA Method TO-15.
- ω. 4. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Final Guidance, October 2006. New York State Department of Health (NYSDOH), Center for
- Ò Soil Vapor / Indoor Air Matrix 1; Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Final Guidance, October 2006. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.

 Soil Vapor / Indoor Air Matrix 2; Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Final Guidance, October 2006. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- <u>ი</u> Environmental Health, Bureau of Environmental Exposure.
- 7 Bold-faced values are concentrations that have been reported above the method reporting limits

Sample medium	Indoor Air	Air	Indoor Air	r Air	USEPA BASE ⁽⁴⁾	NYSDOH Air	Outdoor Air	or Air
Sample number	BU-1166-IA-1	3-IA-1	BU-1166-IA-2	6-IA-2	Data (indoor	Guideline Value ⁽⁵⁾	BU-1166-AMB	3-AMB
Sample date	3/23/2006	006	3/23/2006	2006	background)		3/23/2006	006
	Result	MRL	Result MRL	MRL	Indoor	Indoor	Result	MRL
VOC Compound	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)
Vinyl Chloride	ND	0.69	ND	0.67	<0.6 - 7.5	5 ⁽⁹⁾	ND	0.70
1,1-Dichloroethane	N D	0.69	ND	0.67	<0.2 - <0.9	N/A	N	0.70
cis-1,2-Dichloroethene	N D	0.69	ND	0.67	<0.6 - <2.3	100 (10)	N	0.70
Trichloroethene	N D	0.25 J	ND	0.25 J	<0.6 - 88.5	ഗ	B	0.25 J
Trans-1,2-Dichloroethene	N D	0.69	ND	0.67	N/A	N/A	B	0.70
Tetrachloroethene	ND	0.69	ND	0.67	<0.9 - 65.7	100	ND	0.70

- Notes: ND = Compound was analyzed for, but not detected above the method reporting limit.
- MRL = Method Reporting Limit The minimum quantity of a target analyte that can be determined by the referenced method
- Samples analyzed by EPA Method TO-15.
- Building Assessment and Survey Evaluation (BASE 2001); USEPA.
- Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Final Guidance, October 2006.
- <u>ი</u> NYSDOH, Center for Environmental Health, Bureau of Environmental Exposure.

 Draft Guidance For Evaluating The Vapor Intrusion To Indoor Air Pathway From Groundwater And Soils.

 USEPA, Office of Solid Waste and Emergency Response, November 2002.
- N/A = not available
- **Bold-faced** values are concentrations that have been reported above the method reporting limits
- Assumes the same value as the NYSDOH Air Guideline for TCE.
- 5 Assumes the same value as the NYSDOH Air Guideline for PCE
- J = detection of the compound below this concentration is considered tentative

REMEDIAL INVESTIGATION REPORT BUELL AUTOMATICS SITE SITE #C828114 INDEX #B8-0576-00-04A 381 BUELL ROAD ROCHESTER, NEW YORK

December 2007 (Revised)

VOLUME 2

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 6274 EAST AVON-LIMA ROAD AVON, NEW YORK 14414

Prepared on Behalf of:

BUELL AUTOMATICS, INC. 381 BUELL ROAD ROCHESTER, NEW YORK

Prepared By:

STANTEC CONSULTING SERVICES INC. 2250 BRIGHTON-HENRIETTA TOWN LINE ROAD ROCHESTER, NEW YORK 14623-2674



BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix A

Boundary and Topographic Survey Maps

BUELL AUTOMATICS, INC. BROWNFIELD CLEANUP PROGRAM SITE #C828114 METES AND BOUNDS DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND, SITUATED IN GREAT LOT 32, TOWNSHIP 1, 4000 ACRE TRACT, TOWN OF GATES, COUNTY OF MONROE, AND STATE OF NEW YORK, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING ON THE WESTERLY RIGHT OF WAY OF BUELL ROAD, (66' ROW) AT THE NORTHEASTERLY PROPERTY CORNER OF LOT 1 OF THE BUELL AUTOMATICS RESUBDIVISION, AS FILED IN THE MONROE COUNTY CLERK'S OFFICE AT LIBER 297 OF MAPS, PAGE 55; THENCE,

- 1. SOUTH 01°08'07" EAST, ALONG SAID WESTERLY RIGHT OF WAY, A DISTANCE OF 300.00 FEET TO A POINT; THENCE,
- 2. SOUTH 88°39'53" WEST, ALONG THE NORTHERLY PROPERTY LINE OF LANDS OF NOW OR FORMERLY MICHAEL T. WEBB AND JAMES W. WEBB, A DISTANCE OF 280.00 FEET TO A POINT; THENCE,
- NORTH 01°08'07" WEST, ALONG THE EASTERLY PROPERTY LINE OF LANDS OF NOW OR FORMERLY GERSTEV AND COMPANY, A DISTANCE OF 300.00 FEET TO A POINT; THENCE,
- 4. NORTH 88°39'53" EAST, ALONG THE SOUTHERLY PROPERTY LINE OF LANDS OF NOW OR FORMERLY 333 BUELL ROAD, A DISTANCE OF 280.00 FEET TO THE POINT OF BEGINNING, ENCOMPASSING 1.928 ACRES OF LAND, MORE OR LESS.

EXCEPTING FROM THE ABOVE DESCRIPTION THE FOLLOWING PARCEL OF LAND:

COMMENCING ON THE WESTERLY RIGHT OF WAY OF BUELL ROAD, (66' ROW) AT THE NORTHEASTERLY PROPERTY CORNER OF LOT 1 OF THE BUELL AUTOMATICS RESUBDIVISION, AS FILED IN THE MONROE CLERK'S OFFICE AT LIBER 297 OF MAPS, PAGE 55; THENCE, SOUTH 51°41'25" WEST, A DISTANCE OF 136.28 FEET TO THE POINT OF BEGINNING; THENCE,

NOTE: THE FIRST 7 COURSES RUN ALONG THE FACE OF THE BUILDING.

 SOUTH 01°18'20" EAST, A DISTANCE OF 16.80 FEET TO A POINT; THENCE,

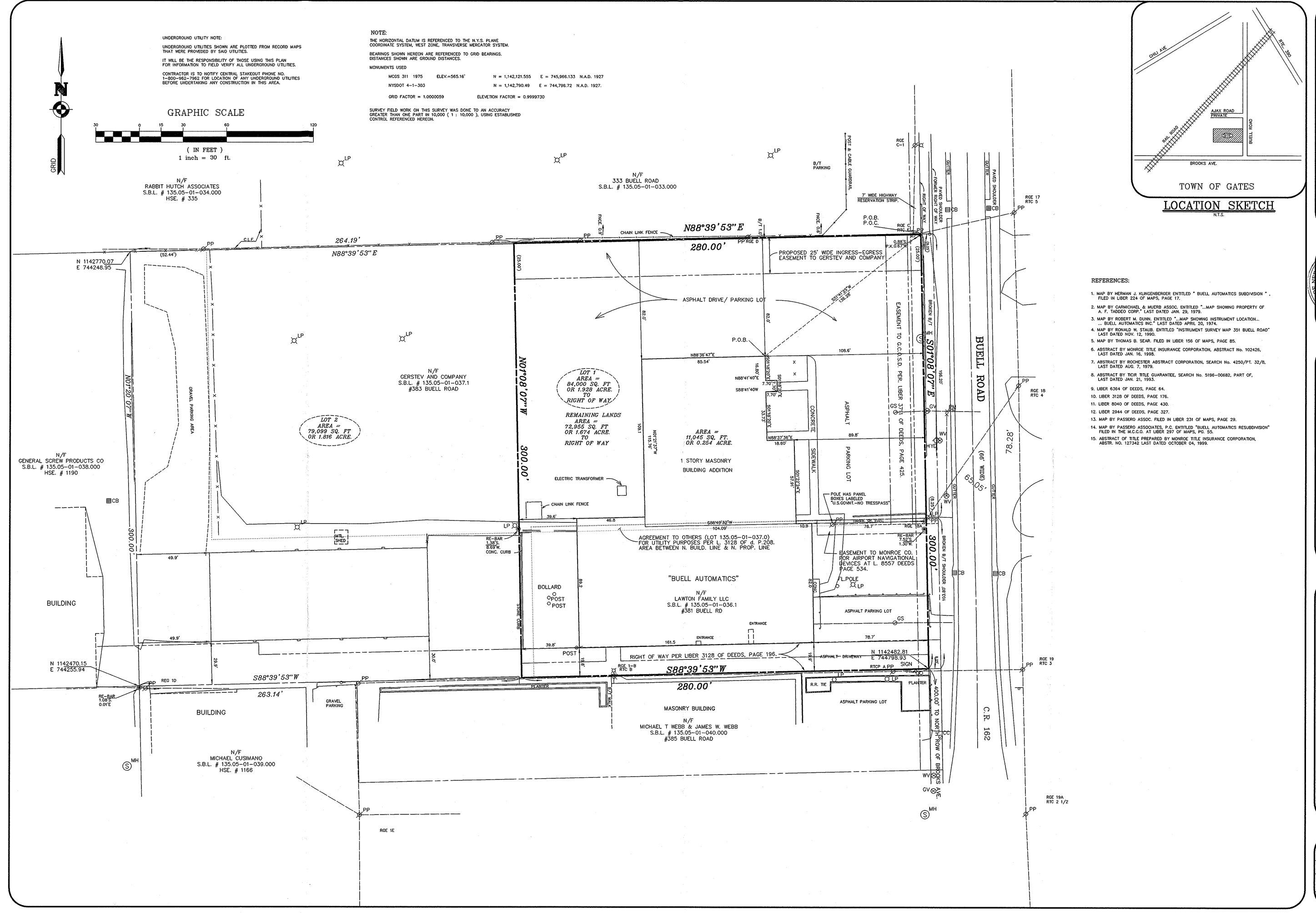
- 2. NORTH 88°41'40" EAST, A DISTANCE OF 7.70 FEET TO A POINT; THENCE,
- SOUTH 01°18'20" EAST, A DISTANCE OF 7.70 FEET TO A POINT; THENCE;
- SOUTH 88°41'40" WEST, A DISTANCE OF 7.70 FEET TO A POINT; THENCE,
- SOUTH 01°18'20" EAST, A DISTANCE OF 33.75 FEET TO A POINT; THENCE,
- 6. NORTH 88°37'36" EAST, A DISTANCE OF 18.60 FEET TO A POINT; THENCE,
- 7. SOUTH 01°22'24" EAST, A DISTANCE OF 57.91 FEET TO A POINT; THENCE,
- 8. SOUTH 88°49'32" WEST, A DISTANCE OF 104.09 FEET TO A POINT; THENCE,

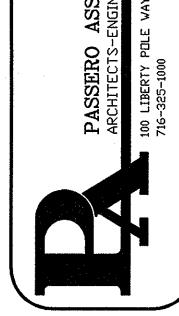
NOTE THE FOLLOWING 2 COURSES RUN ALONG THE FACE OF THE BUILDING.

- NORTH 01°21'37" WEST, A DISTANCE OF 115.76 FEET TO A POINT; THENCE,
- 10. NORTH 88°36'47" EAST, A DISTANCE OF 85.54 FEET TO THE POINT OF BEGINNING, ENCOMPASSING 0.254 ARES OF LAND, MORE OR LESS.

THE TOTAL REMAINING AREA OF THE ORIGINAL PARCEL MINUS THE ADDITION IS 1.674 ACRES OF LAND, MORE OR LESS.

ALL AS SHOWN ON A MAP PREPARED BY PASSERO ASSOCIATES, ENTITLED" BROWNFIELD CLEANUP PROGRAM, SITE 3C828114, METES AND BOUNDS DESCRIPTION", DRAWING NO. DEC-1, AND DATED APRIL 12, 2007.





PROJECT NO. 2007687.01 DRAWING NO. DEC-1

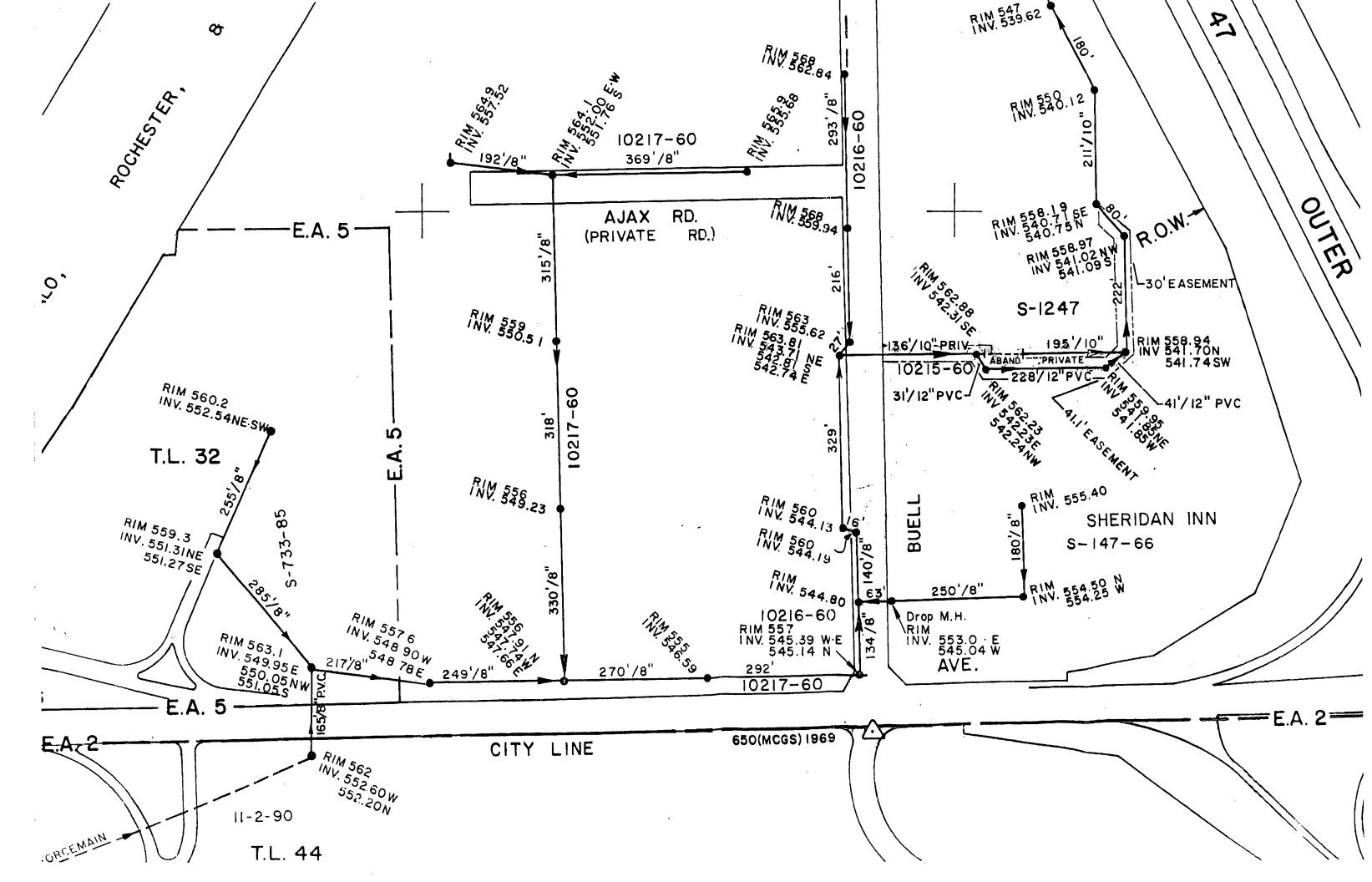
1"=30'

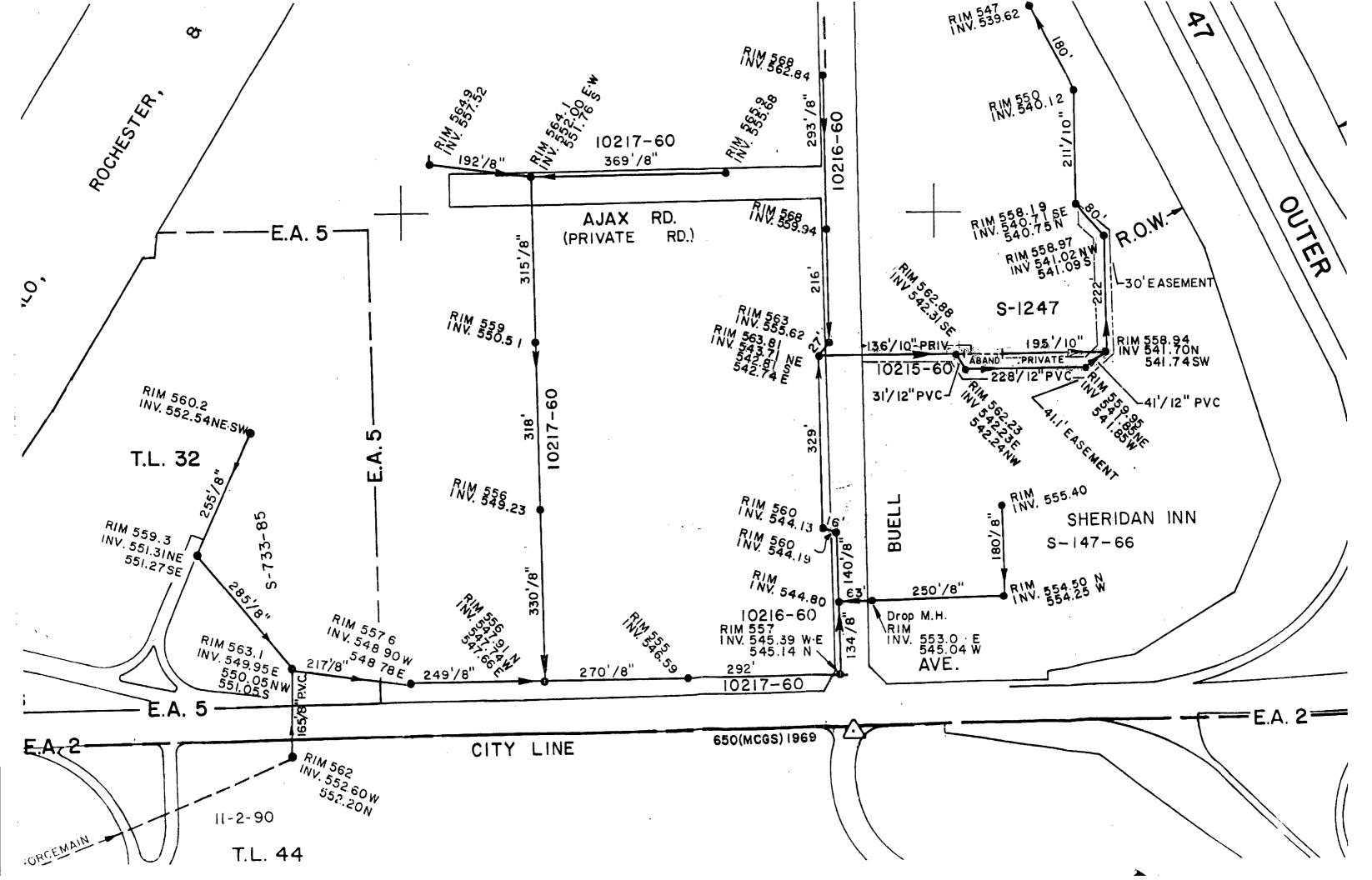
APRIL 12, 2007

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix B

Sanitary Sewer Map





BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix C

Boring Logs and Well Completion Reports

Stantec

2250 Brigton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No.

MW - 2D

Page 1 of 3

Project:	Voluntary Investigation	Drill Contrac	ctor: Nothnagle	Start Date:	8/5/02
Project #:	16059	Driller:	N. Short	Completion Date:	8/8/02
Client:	Buell Automatics	Elevation:	562.0 ft. AMSL	Drilling Method:	6-1/4 in ID HSA; wet rotary NX
Location:	381 Buell Road	Weather:	sunny; 70; light wind- N	Supervisor:	P.Smith

		1	Blows o	n Sampl	er		SAN	IPLE		Soil and Rock Information
0	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
		46				34.0	5"	1	0-2'	Gray coarse to fine Sand, some coarse gravel and silt,
ļ			11							dry, (asphalt surface with road base)
İ	<u> </u>			6						(FILL)
	<u> </u>	L			6			<u> </u>		2.0 '
	<u> </u>	6				0.0	5"	2	2-4'	Brown silty fine Sand, moist
			6							(LAGUATRINE GAND)
				7	ļ.,			+		(LACUSTRINE SAND)
			ļ	├	7	<u> </u>	16"	3	4-6'	- aama ayaant wat
_	 -	3	 		 	0.5	16"	1-3	4-6	-same, except wet
_ 5_		 	3	3	<u> </u>	 		+		
	<u> </u>	 		 3	3			+		
		2				0.0	12"	4	6-8'	-same, except gray
	<u> </u>	 	5	 -		0.0	12	╁╌┥	0-0	-same, except gray
	 	 	-	6	 	-		+		
	 	 			10	+		1-		
	-	6		 		0.0	18"	5	8-10'	-same, except brown
		├ ਁ	10			1		†		533, 55, 5
		 		13	_	1 1				
10					13			1 -		
		2				0.0	18"	6	10-12'	-same, except gray brown
			3							
				9				T		
					10					
		3				0.0	18"	7	12-14'	-same
			6							
		<u> </u>		7						
					8					
		4	ļ	<u> </u>		0.5	18"	8	14-16'	-same
_15	<u> </u>	<u> </u>	4	<u> </u>				_		
		<u> </u>	ļ	5	<u> </u>			<u> </u>		
	<u> </u>	<u> </u>	ļ		5				40.40	_
	<u> </u>	2	ļ <u>.</u>	ļ		0.0	12"	9	16-18'	-same
		 	2	<u> </u>	_	 		+		
	├—	 		3		 		+		
	<u> </u>	 _ -		 	4	H	12"	10	18-20'	age over Silt, with transfine send and ground
	 	4	 -	<u> </u>	ļ	0.0	12	10	18-20	-same, except Silt, with trace fine sand and gravel at 19.5'
		 -	4	 				+		19.5
00	<u></u>	 	├	5	 	+		+		
20	1	I	I	1	6	1		1	l	(LACUSTRINE SILT AND CLAY)

Stantec

2250 Brigton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No.

MW - 2D

Page 2 of 3

Start Date: 8/5/02 Project: Voluntary Investigation Drill Contractor: Nothnagle Project #: 16059 Driller: N. Short Completion Date: 8/8/02 Drilling Method: 6-1/4 in ID HSA; wet rotary NX Client: **Buell Automatics** Elevation: 562.0 ft. AMSL sunny; 70; light wind- N P.Smith 381 Buell Road Supervisor: Location: Weather:

ſ		E	Blows on Sampler SAMPLE			Soil and Rock Information					
20	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks	
		2				0.0	14"	11	20-22'	Gray Clay, some silt, trace sand and gravel, moist	
			2								1
		L		3	!				j	(LACUSTRINE SILT AND CLAY)	
ļ			_		4			<u> </u>			
		3				0.0	24"	12	22-24'	Gray and red brown clayey Silt, trace fine sand, moist	
			3				 	ļ			l
ļ				4				↓			
				<u> </u>	4			<u> </u>			24.0 '
		4				0.0	16"	13	24-26'	Gray silty fine Sand, wet	
25		L	4	ļ <u>.</u>					ļ		J
			_	6				ļ <u>.</u>		(LACUSTRINE SAND)	1
		 	<u> </u>		4		4.011		00.001		
		4				0.0	18"	14	26-28'	Gray silty fine Sand, wet	
			6	40	<u></u>			 			
		<u> </u>	<u> </u>	10				ļ	ļ		20 0 1
					50			 		and a hour single roller hit from 20 0 to 20 0 w/o complies	28.0 '
		 _	-	 				├─-		-spoon bouncing; roller bit from 28.0 to 29.0 w/o sampling	
		26				0.0	16"	15	29-31 '	Dense gray coarse to fine Sand and Gravel, some silt,	
30		20	21	-		0.0	10	1 ,5		trace clay, moist; hard	{
				23		1		+	{	trace clay, moist, nard	
				25	30	-		 	1		
		10			 	0.0	12"	16	31-33'	-same	
		 	15	 	<u> </u>	0.0	12	 	1 0.00	- Same	-
			'-	18		 		 -	1	(GLACIAL TILL)	
		 -		<u> </u>	23			 		(=====,	
	-	15		 		0.0	10"	17	33-35'	l-same	
	<u> </u>		14	 					1		
			t	22					1		[
35	<u> </u>		1		18			1	1		
		8				0.0	6"	18	35-37'	-same	
		<u> </u>	8	Ţ	 				1		
				13					1		ł
					15				1		37.3'
						0.0	NR	19		No recovery; top of rock at 37.3 ft. bgs auger refusal	
									RUN 1:		İ
									37.3 - 42.3	,,	
į									Rec = 100%		
				L					$RQD = 64^{\circ}$		ļ
_40	L	L	<u></u>	<u> </u>					<u> </u>	(BEDROCK)	

Stantec

2250 Brigton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No.

MW - 2D

Page 3 of 3

Voluntary Investigation 16059 Start Date: 8/5/02 Project: Drill Contractor: Nothnagle 8/8/02 Project #: Driller: N. Short Completion Date: Client: **Buell Automatics** Elevation: 562.0 ft. AMSL Drilling Method: 6-1/4 in ID HSA; wet rotary NX Location: 381 Buell Road Weather: sunny; 70; light wind- N Supervisor: P.Smith

		E	3lows o	n Sampl	ler	SAMPLE				Soil and Rock Information
40	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
								T	RUN 1: continue	ed
									37.3 - 42.3 '	Gray, vuggy crystalline Limestone; coral;
									Rec = 100%	8 fractures, 2 with calcite crystals.
									RQD = 64 %	(BEDROCK)
									1	42.3 '
		<u> </u>								Boring terminated at 42.3 ft. bgs
									}	
]]	
									}	
45									1	Notes:
		<u> </u>								4-inch diameter steel casing grouted at
		T							1	22.0 ft. bgs.
		T]	2. Monitoring well MW-2D installed in completed
]	borehole. See well detail sheet.
				1]	
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]	
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BEDROCK MONITORING WELL

DESIGN DETAILS

PROJECT	NAME: Re	medial I	nvestigation	

PROJECT NUMBER: 16059

CLIENT: Buell Automatics

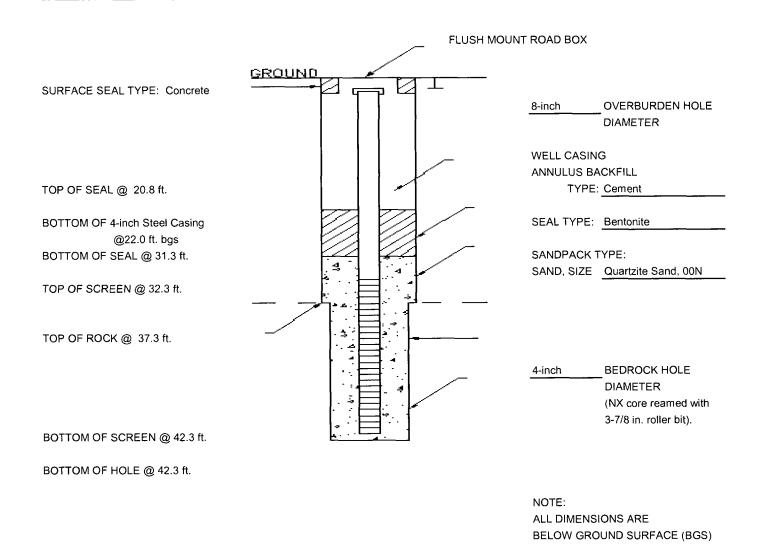
LOCATION: 381 Buell Road, Rochester, NY

HOLE DESIGNATION: MW-2D

DATE COMPLETED: 8/8/02

DRILLING METHOD: 6-1/4 in ID HSA; wet rotary NX core

SUPERVISOR: P. Smith



SCREEN TYPE: CONTINUOUS SLOT PERFORATED _x LOUVRE ___ OTHER

SCREEN MATERIAL: STAINLESS STEEL ___ PVC _x OTHER

SCREEN LENGTH: 10.0 ft. SCREEN DIAMETER: 2.0 in. ID SCREEN SLOT SIZE: ____ 0.010 inch

WELL CASING MATERIAL: ___ PVC ___ WELL CASING DIAMETER: ____ 2.0 in. ID

HOLE DIAMETER: nominal 10-inch overburden hole; nominal 4-inch bedrock hole.



2250 Brigton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No.

MW - 6

Page 1 of 1

Project:	Voluntary Investigation	Drill Contract	ctor: Nothnagle	Start Date:	8/8/02
Project #:	16059	Driller:	N. Short	Completion Date:	8/8/02
Client:	Buell Automatics	Elevation:	560.3 ft. AMSL	Drilling Method:	Hollow stem auger 4-1/4 in ID
Location:	381 Buell Road	_Weather:	Clear, 70's	Supervisor:	P.Smith

		E	Blows o	n Sampl	er	SAMPLE		PLE		Soil and Rock Information	
0	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks	
		34				0.5	10"	1	0-2'	Gray Gravel, some sand and silt; asphalt surface, road base	
			22					ļ		(FILL)	
			··	14				<u> </u>			
					10			<u> </u>			
		5	10			0.0	16"	2	2-4'	2.6'	
			10	40	}			₩—		Brown silty fine Sand, moist	
				10	10			-			
		6			10	0.0	18"	3	4-6'	l-same, except wet	
5			9		ļ	0.0	10	-3	4-0	-same, except wet	
<u> </u>				10		 		 		(LACUSTRINE SAND)	
				10	12	\vdash		 		(EXOSSTRING SAIRS)	
		9			·	0.0	20"	4	6-8'	l-same	
		1	10		<u> </u>						
				11							
					9						
		3				0.0	16"	5	8-10'	-same	
			4								
				5				<u> </u>			
_10					5			$oldsymbol{ol}}}}}}}}}}}}}}}}}}$			
		2		Ĺ <u>. </u>	<u></u>	0.0	16"	6	10-12'	-same	
	ļ		3			 		 		11.2 '	
		ļ		6	10	 		 		Red brown Silt, some fine sand, trace clay and gravel, moist	
	-	-		<u> </u>	13	0.0	16"	 _ _	12-14'	come with increasing alove and ground	
		3	5	<u> </u>		0.0	10	7	12-14	-same, with increasing clay and gravel	
	<u> </u>	 		8	-	 		+-		(LACUSTRINE SILT AND CLAY)	
	 -	 		 °	9			+		(LACOSTRINE SILT AND CLAT)	
	 	3		-		0.0	18"	8	14-16'	-same (Till)	
15	 	— "	7		-	- 0.0		╁╌	14:10	15.0 '	
 _	_	i	 -	11	 			-		Brown silty fine Sand, dry (LACUSTRINE SAND)	
					11	├ ─		†		15.9 '	
		100/3				0.0	2"	9	16-16.3 '	rock fragments	
		9			1	0.0	16"	10	17-19'	Dense gray, sandy Till, dry; rock frags from 18.5 to 18.8 '	
			28							(GLACIAL TILL)	
				70							
		<u> </u>			37					19.0 '	
	<u></u>							$oxed{oxed}$		Boring terminated at 19.0 ft. bgs	
_20	<u> </u>	L		<u> </u>	<u> </u>	<u> </u>		1		<u> </u>	

Monitoring well MW-6 installed in completed borehole. See well detail sheet.



HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME: Remedial Investigation HOLE DESIGNATION: MW-6

	UMBER: 16059 CLIENT: Buell Automatics CATION: 381 Buell Road, Roche		ED: 8/8/02 OD: 4-1/4 in ID HSA OR: P. Smith
SURFACE SEAL TYPE	Concrete GROUI		FLUSH MOUNT ROAD BOX
TOP OF SEAL @	ft		ANNULUS BACKFILL TYPE: Cement SEAL TYPE: Bentonite
BOTTOM OF SEAL @	4.0 ft 5.0 ft		SANDPACK TYPE: SAND, SIZE Quartzite Sand, 00N
BOTTOM OF SCREEN @			
BOTTOM OF HOLE @	<u>19.0</u> ft		NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)
SCOPEN TYPE.	CONTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER
SCREEN TYPE: SCREEN MATERIAL:	STAINLESS STEEL		OTHER OTHER
SCREEN LENGTH:	ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch
WELL CASING MATERIA	L:	PVC WELL C	CASING DIAMETER: 2.0 in. ID

nominal 8 - inch



2250 Brigton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No.

MW - 7

Page 1 of 1

Project: Drill Contractor: Start Date: 05/21/02 Voluntary Investigation Nothnagle 05/21/02 Project #: 16059 Driller: N. Short Completion Date: 561.4 ft. AMSL Drilling Method: Hollow stem auger 4-1/4 in ID Client: **Buell Automatics** Elevation: P.Smith Occ. Rain; wind 5-10 west Supervisor: 381 Buell Road Weather: Location:

		E		n Sampl		SAMPLE			Soil and Rock Information	
0	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
		30				0.0	12"	1	0-2'	Gray Gravel, some sand and silt (asphalt surface, road base)
[10							(FILL)
[10						1.5 '
[5					Brown silty fine SAND, moist
		6				0.0	10"	2	2-4'	-same
			6							
				7						
					14					
		6				0.0	16"	3	4-6'	-same, except wet
_ 5			7							
				8						(LACUSTRINE SAND)
ſ					12					
1		13				8.0	24"	4	6-8'	-same, with interbedded silt seams
			14	L-						
				14				ļ		
					15			<u> </u>		1
		4				0.0	16"	5	8-10'	-same
			7					ļ		
		ļ		8				1	i	
_10					8		4.011	1	40.40	
		3				0.0	18"	6	10-12'	-same
		 _	7					ļ		
		 -		7						(
		 		-	8		16"	 _	12-14'	I
		6	7	·	 -	0.0	10	7	12-14	-same
	<u> </u>				<u> </u>			<u> </u>		
		 		8	10			-		
		3		 	10	0.0	14"	8	14-16'	Gray brown SAND, some silt, trace gravel, moist
15		 	7	 -	 	0.0	14	10	14-10	Gray brown SAND, some siit, trace graver, moist
-13			' -	14				 		
		 -		'	15	 		 -		
		3		-	13	0.0	6"	9	16-18'	-same, with increasing silt, trace gravel
	 -	├─ॅ ─	7	ļ	 	0.0		 	10-10	-same, with moreasing sitt, trace graver
		 	 '	8	 	 		 		
	 	 		 	10	 		+		
	 -	1			 'Ŭ	0.0	20"	10	18-20'	18.3
	 -	 	3	 	<u> </u>	10.0		 '` -	1020	Red brown clayey SILT, some fine sand, moist, plastic
	 	 	 	6	 			+		(LACUSTRINE SILT and CLAY)
20	 	 			8			+		20.0
	l	<u> </u>	L		<u> </u>	L			L	

Boring terminated at 20.0 ft. BGS

N = No. of Blows to Drive 2 " Spoon, 12 ", with 130 lb. Wt., 30 " Ea. Blow.

Monitoring well MW-7 installed in completed borehole. See well detail sheet.



OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME: Remedial Investigation PROJECT NUMBER: 16059 CLIENT: Buell Automatics LOCATION: 381 Buell Road, Roches	HOLE DESIGNATION: MW-7 DATE COMPLETED: 5/20/02 DRILLING METHOD: 4-1/4 in ID HSA ter, NY SUPERVISOR: P. Smith
SURFACE SEAL TYPE Concrete GROUN	WELL CASING
TOP OF SEAL @ 2.0 ft BOTTOM OF SEAL @ 4.0 ft TOP OF SCREEN @ 5.0 ft	ANNULUS BACKFILL TYPE: Cement SEAL TYPE: Bentonite PACK TYPE: SAND, SIZE Quartzite Sand, 00N
BOTTOM OF SCREEN @ 20.0 ft BOTTOM OF HOLE @ 20.0 ft	NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)

HOLE DIAMETER: nominal 8 - inch



Test Boring No.

MW - 8

Page 1 of 2

Start Date: 5/21/2002 Project: Voluntary Investigation Drill Contractor: Nothnagle N. Short Project #: 16059 Driller: Completion Date: 5/21/2002 **Buell Automatics** Elevation: 562.0 ft. AMSL Drilling Method: Hollow stem auger 4-1/4 in ID Client: 381 Buell Road Weather: Occ. Rain; wind 5-10 west Supervisor: P.Smith Location:

1	Blows on Sampler SAMPL		PLE		Soil and Rock Information					
0	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
		17				0.0	14"	1	0-2'	Asphalt surface - gravel base
			8							(FILL) 1.3 '
ļ				6				L		Brown silty fine SAND, moist
ĺ					5					
$\overline{}$		3				0.0	16"	2	2-4'	same, except wet
			5			-				
				4				├ ──		Deals are seen @ 3.71 (no adore staining)
,					6		4.511	 -	4.61	Dark gray seam @ 3.7 ' (no odors, staining)
_		8				0.0	15"	3	4-6'	Brown silty fine SAND, wet
_5			7	6		+		\vdash		
				<u> </u>	5	1		\vdash		
		5				0.0	16"	4	6-8'	-same
Ì		<u> </u>	5			0.0	10	 -	0-0	Jame
	-	<u> </u>	_ _ _	6		+		\vdash		(LACUSTRINE SAND)
				Ľ	9			1 -		(2.1000 ///////////
		5			ٻ ا	0.0	16"	5	8-10'	-same
		<u> </u>	7	·						
				9				1		
10				· ·	10					
		3				0.0	16"	6	10-12'	-same
			5				~~~~			ļ
				6						
					8					<u>]</u>
		5				0.0	16"	7	12-14'	-same, with occasional silt seams
			5							
				6				\bot		
			 	<u> </u>	7			 		4
	<u> </u>	5	<u> </u>			2.8	12"	8	14-16'	-same
_15	<u> </u>	ļ	7	1.5		 		_		Construction of CAND arms all three along and served are left
	<u> </u>	<u> </u>		12		├		 		Gray brown c-f SAND, some silt, trace clay and gravel, moist,
			 	 	14		40"	+ -	46 10	
	 	6_	7	 	 -	2.5	12"	9	16-18'	-same 17.0 '
	<u> </u>	 	 	7	 	 		+		Gray and red brown mottled clayey SILT, some sand, moist,
	├	 	 	 '	6	 		 		plastic
	├──	5			 	18.5	18"	10	18-20'	-same (LACUSTRINE SILT and CLAY)
	 	<u></u> -	6	\vdash		10.5	10	 '	10-20	(LACCOTATE OILT AIR CLAT)
	 	 	├──	9	 			+		19.6 '
20	 	 		1 9	12	 		1		Gray fine SAND, some silt, dry (LACUSTRINE SAND)
20	L	L	L	l	1 '2					Total mile of the solid one of the terror of the office of

Rochester, NY (585) 475-1440

2250 Brigton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No.

MW - 8

Page 2 of 2

Project:	Voluntary Investigation	Drill Contra	actor: Nothnagle	Start Date:	5/21/2002
Project #:	16059	Driller:	N. Short	Completion Date	5/21/2002
Client:	Buell Automatics	Elevation:	562.0 ft. AMSL	Drilling Method:	Hollow stem auger 4-1/4 in ID
Location:	381 Buell Road	Weather:	Occ. Rain; wind 5-10 wes	Supervisor:	P.Smith

[В	lows or	n Samp	oler		SAM	PLE		Soil and Rock Information	
0	С	0-6"		12-18"	18-24"	PID	Rec.	No.	Depth	Remarks	
		6				0.0	16"	11	20-22'	Interbedded gray, fine Sand and moist, gray brown	_ [
[7							clayey till, dry	ŀ
ļ				8			<u> </u>			(LACUSTRINE SAND)	
- 1					18						
		15				0.0	16"	12	22-24'	-same	
			16					<u> </u>			22.6 '
		ļ		27				<u> </u>		Gray coarse to fine Sand, silt and gravel, dry	2421
		ļ		_	28			ļ			24.0 '
		ļ			<u> </u>					Boring terminated at 24.0 ft. BGS	}
25		<u> </u>			<u> </u>					NI-1-	
		<u> </u>								Note:	
,					ļ			<u> </u>		1. Monitoring well installed in completed borehole.	
		<u> </u>	 					├		See well detail sheet.	(
					<u> </u>						
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OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NUMBE		HOLE DESIGNATION: DATE COMPLETED: DRIVEN NO METHOD	5/21/02
	NT: Buell Automatics ON: 381 Buell Road, Roche	DRILLING METHOD: ster, NY SUPERVISOR:	
SURFACE SEAL TYPE <u>Con</u>	crete GROUN		FLUSH MOUNT ROAD BOX
TOP OF SEAL @	. <u>0</u> ft		WELL CASING ANNULUS BACKFILL TYPE: Cement
BOTTOM OF SEAL @ 4.	<u>.0</u> ft		PACK TYPE: Bentonite PACK TYPE:
TOP OF SCREEN @ 5.	<u>.0</u> ft		SAND, SIZE Quartzite Sand, 00N
BOTTOM OF SCREEN @ 19	9.0 ft		
LOWER SEAL from 19.5 to 24.0) ft.		NOTE:
BOTTOM OF HOLE @ 24	1.0 ft		ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)
SCREEN TYPE:	CONTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER
SCREEN MATERIAL:	STAINLESS STEEL	PVC _x_	OTHER
SCREEN LENGTH:	ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch
WELL CASING MATERIAL:		PVC WELL CAS	ING DIAMETER: 2.0 in. ID

nominal 8 - inch

HOLE DIAMETER:



Ptly sunny, 60's

Test Boring No.

MW - 9

Page 1 of 1

Project: Project #: Client:

Location:

Voluntary Investigation 16059

Buell Automatics

381 Buell Road

Driller: Elevation: Weather:

Drill Contractor: Nothnagle N. Short 561.1 ft. AMSL

Completion Date: Drilling Method: Supervisor:

Start Date:

8/6/02 8/6/02

Hollow stem auger 4-1/4 in ID

P.Smith

		1	Blows o	n Sampl	ler		SAN	//PLE		Soil and Rock Information		
0	С	0-6"	6-12"		18-24"	PID	Rec.	No.	Depth	Remarks		
		12			_	0.0	8"	1	0.5-2'	Gray coarse to fine Sand and Gravel, dry		
			13							(asphalt surface w/ road base) (FILL)		
				11				<u> </u>			1.6	
					<u></u>					Brown silty fine Sand @ 1.6'		
_		5				0.0	12"	2	2-4'	-same, except wet @ 3.5'		
		ļ	6					 				
	-		ļ	5				\bot				
		<u></u>		<u> </u>	6	0.0	16"		4-6'	- como		
_		4	4	<u> </u>		0.0	10	3	4-0	-same		
5	1		4	6	 			+		(LACUSTRINE SAND)		
	-	-			6					(EACOSTRINE SAND)		
	<u> </u>	4		 	-	14.8	20"	4	6-8'	-same		
			5	 		14.0		+-	0.0	Samo		
	-		Ť	7			****	+				
				-	7		-	1				
		4	1			0.0	18"	5	8-10'	-same		
			4					1 1				
			f	7								
10					9							
		1	<u> </u>			0.0	16"	6	10-12'	-same		
			5									
			ļ	17						Gray brown silty coarse to fine Sand, some Silt		
			ļ		22			ļ <u>.</u>		little coarse to fine gravel, moist		
	<u> </u>	3	<u> </u>			0.0	16"	7	12-14'		12.5	
	ļ		4		 		<u> </u>	\perp		Gray clayey Silt, trace gravel, moist		
	<u> </u>	ļ	 	5	7	 		1		(LACUSTRINE SILT and CLAY)		
	<u> </u>	2	 		<u> </u>	0.0	20"	8	14-16'	-same (LACOSTRINE SILT and CLAY)		
15	\vdash	 	3	<u> </u>		0.0		· °	14-10	-same		
15	+	 	 	4		1		+				
	-	-	 	 	9						16.0	
		-	-		-			+		Boring terminated at 16.0 ft. BGS	10.0	
		 	+		 	 		1		Bonning terminated at 10.0 ft. Boo		
		 	 		1	1		1		Note:		
-	 	 	 	 		1	· · · · · · · · · · · · · · · · · · ·	1		Monitoring well MW-9 installed in completed borehole.		
		 	<u> </u>	 	 					See well detail sheet.		
		<u> </u>	†		<u> </u>	 						
			1									
20		 	1	1		1 1		1				



HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME	: Remedial Investigation	HOLE DESIGNATION:	MW-9
PROJECT NUMBER		DATE COMPLETED:	
	: Buell Automatics	DRILLING METHOD:	
LOCATION	: 381 Buell Road, Roches	ster. NY SUPERVISOR:	P. Smith
SURFACE SEAL TYPE Concre	ete GROUN		FLUSH MOUNT ROAD BOX
			WELL CASING ANNULUS BACKFILL TYPE: Cement
TOP OF SEAL @ 2.0	_ft		SEAL TYPE: Bentonite
BOTTOM OF SEAL @ 4.0	_ ft		PACK TYPE: SAND, SIZE Quartzite Sand, 00N
TOP OF SCREEN @ 5.0	_ft		<u> </u>
BOTTOM OF SCREEN @ 15.0	_ ft		
BOTTOM OF HOLE @ 16.0	_ft		NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)
SCREEN TYPE: COI	NTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER
SCREEN MATERIAL: ST	TAINLESS STEEL	PVC _x_	OTHER
SCREEN LENGTH:	10.0 ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch
WELL CASING MATERIAL:		PVC WELL CAS	ING DIAMETER: 2.0 in. ID

nominal 8 - inch



Test Boring No.

MW - 10

Page 1 of 1

Project:	Voluntary Investigation	Drill Contra	ctor: Nothnagle	Start Date:	8/5/02
Project #:	16059	Driller:	N. Short	Completion Date:	8/5/02
Client:	Buell Automatics	Elevation:	562.8 ft. AMSL	Drilling Method:	Hollow stem auger 4-1/4 in ID
Location:	381 Buell Road	Weather:	sunny; 70; light wind- N	Supervisor:	P.Smith

		F	Blows o	n Sampl	er		SAM	PLE		Soil and Rock Information	
0	С	0-6"	6-12"	12-18"		PID	Rec.	No.	Depth	Remarks	
		2				0.0	6"	1	0-2'	0-0.5 concrete surface-	0.5 '
			3							Dark gray silty fine Sand, moist; strong petroleum odor	
				5							
										(FILL)	
		5				1.7	10"	2	2-4'	- same	
			3								
				3							
					5					<u> </u>	4.0 '
		3				0.0	12"	3	4-6'	Red brown, moist silty fine Sand, little clay, moist,	
5			3							no odor	
		l		4							
					5			<u> </u>		(LACUSTRINE SAND)	
		5				0.0	16"	4	4-8'	-same	
			8					1			
				13				$oxed{oxed}$			
					17			$ldsymbol{ldsymbol{ldsymbol{eta}}}$		<u>.</u>	
		4		ļ		0.0	16"	5	8-10'	-same	_
			7	ļ				\perp			9.0 '
		<u> </u>		7	ļ					same, except no clay, wet	9.5 '
_10					9			1		4	
,		2				0.0	18"	6	10-12'	Red brown clayey Silt, some fine sand, moist	
	L		3					.]		†	
				9							
					11			1		(LACUSTRINE SILT and CLAY)	
		3		ļ		0.0	22"	7	12-14'	-same	
		ļ	4		<u> </u>			ļ			
		ļ	ļ	6	L			<u> </u>			
	-	<u> </u>		<u> </u>	7	0.0	4.011	\perp	44.40	·	
		4				0.0	18"	8	14-16'	-same, with trace gravel	
_15	ļ	<u> </u>	5								
	<u> </u>	ļ		7		ļ <u> </u>					
		 	ļ	ļ	8	- 0 0	4.00	 _ 	40.40	4	
		5		<u> </u>	 	0.0	18"	9	16-18'	-same	42.01
		 	5	-	ļ. .	 		<u> </u>		Dad by State of Carlot of Carlot Division Carlot	17.3 '
	 	 	 	6		ļ		+		Red brown silty fine Sand, wet (LACUSTRINE SAND)	4~
	<u> </u>	 	 	 	3		40"		40.00		17.7 '
	<u> </u>	2	 	 	<u> </u>	0.0	12"	10	18-20'	Red brown clayey Silt, little Sand, trace Gravel, moist	
		 	2	 	ļ			-		(OLACIAL TILL)	
20			 	3	 	 		-		(GLACIAL TILL)	20.01
_20	L	<u> </u>	L	<u></u>	4			\perp		D. de de de de de de de de de de de de de	20.0 '

Boring terminated at 20.0 ft. BGS

N = No. of Blows to Drive 2 " Spoon, 12 ", with 130 lb. Wt., 30 " Ea. Blow.

Monitoring well MW-10 installed in completed borehole. See well detail sheet.



HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME: Remedial Investigation HOLE DESIGNATION: MW-10

PROJECT NU	MBER: 16059	DATE COMPLE	ETED: <u>8/5/02</u>
С	LIENT: Buell Automatics	DRILLING MET	THOD: 4-1/4 in ID HSA
LOCA	ATION: 381 Buell Road, Roc	hester, NY SUPERV	ISOR: P. Smith
SURFACE SEAL TYPE	Concrete GROL		FLUSH MOUNT ROAD BOX
TOP OF SEAL @	2.0 ft		WELL CASING ANNULUS BACKFILL TYPE: Cement SEAL TYPE: Bentonite
BOTTOM OF SEAL @ -	4.0 ft 5.0 ft		PACK TYPE: SAND, SIZE Quartzite Sand, 00N
BOTTOM OF SCREEN @	20.0 ft 20.0 ft		MOTE
			NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)
SCREEN TYPE:	CONTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER
SCREEN MATERIAL:	STAINLESS STEEL	PVCx	OTHER
SCREEN LENGTH:	15.0 ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch
WELL CASING MATERIAL:		PVC WELL	CASING DIAMETER: 2.0 in. ID

nominal 8 - inch



Test Boring No.

MW - 11

Page 1 of 1

8/7/02 Project: Voluntary Investigation Drill Contractor: Nothnagle Start Date: 8/7/02 Project #: 16059 Driller: N. Short Completion Date: 559.3 ft. AMSL Drilling Method: Hollow stem auger 4-1/4 in ID Client: **Buell Automatics** Elevation: Clear, 70's Supervisor: P.Smith Location: 381 Buell Road Weather:

9	[E	Slows or	Sampl	ler		SAM	IPLE		Soil and Rock Information	
15	0	С	0-6"	6-12"	12-18"	18-24"		Rec.	No.			
1.5 9			30				0.0	12"	1	0-2'		
9				15							(FILL)	:
9												1.5 '
10					9				L			
10			9				0.0	12"	2	2-4'	Brown Silt, some fine sand, wet	
Same Same Carrier Carrier Same Carrier Ca				8								ŀ
Same Same			<u> </u>		8							
5 3 4 6						8		100				
10			3				0.0	12"	3	4-6'	-same	j
10	5			3					 			
3			ļ		- 4			· · · · · · · · · · · · · · · · · · ·	 			
10			 _ _ _ 			6	0.0	400	 	0.01		l
10			3				0.0	12"	4	6-8	i-same	
10				6		ļ						
10		<u> </u>	ļ						-			ı
10						8	00	12"	1 -	9.40'	- comp	
10				_			0.0	12	3	0-10	-Same	
10				3	7				+			1
11.2 -same 10		 -			-			+				
11.2 12.3 13.4 15 100/2 15 15 100/2 15 18 20 18 24 18 14-19.8 18 14-19.8 18 14-19.8 18 24 18 18 18 14-19.8 18 18 18 18 14-19.8 18 18 18 18 18 18 18	10		5	-		 	0.0	16"	6	10-12'	same	
9 9 12.3 12.14 12.3 12.3 13 0.0 16" 9 16-18' 18 24 18 14-19.8 18 14-19.8 18 14-19.8 18 14-19.8 18 18 14-19.8 18 18 18 18 18 18 18			 	7		-	0.0	10	+	10 12	Same	11 2
3			-	 	q	-	 		+		Gray brown Sand, some Silt, trace fine grayel, moist	
3			 			9			+		Stay Stawn Cana, Comb Cin, Maco Into Graves, Incide	ł
4			3	<u> </u>		<u> </u>	0.0	20"	7	12-14'	1	12.3
15		<u> </u>	 	4					 		Gray Silt, some Clay, little fine sand, moist	
12					5				—			
15						12						
15			15				0.0	4"	8	14-14.7'	Gray brown gravelly Silt, moist	1
(GLACIAL TILL) 15	15			100/2	-				1			
20											(GLACIAL TILL)	ľ
20												
18 20			15				0.0	16"	9	16-18'	-same	j
13 0.0 16" 10 18-19.8 -same				20								
13 0.0 16" 10 18-19.8 -same					18							
18 24						20						
24			13				0.0	16"	10	18-19.8	-same	
				18								
20 100/3 20.0			<u> </u>	ļ	24						1	
Boring terminated at 20.0 ft BGS	20					100/3						20.0 '

Boring terminated at 20.0 ft. BGS

N = No. of Blows to Drive 2 " Spoon, 12 ", with 130 lb. Wt., 30 " Ea. Blow.

Monitoring well MW-11 installed in completed borehole. See well detail sheet.



WELL CASING MATERIAL:

HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT N	T NAME: Remedial Investigation IUMBER: 16059 CLIENT: Buell Automatics CATION: 381 Buell Road, Roch	DATE COMPLETE DRILLING METHO	
SURFACE SEAL TYPE	Concrete		FLUSH MOUNT ROAD BOX
TOP OF SEAL @	ft		WELL CASING ANNULUS BACKFILL TYPE: Cement SEAL TYPE: Bentonite
BOTTOM OF SEAL @ TOP OF SCREEN @	ft ft		PACK TYPE: SAND, SIZE Quartzite Sand, 00N
BOTTOM OF SCREEN @	20.0 ft 20.0 ft		
			NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)
SCREEN TYPE:	CONTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER
SCREEN MATERIAL:	STAINLESS STEEL	PVCx	OTHER
SCREEN LENGTH:	ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch

PVC____

nominal 8 - inch

WELL CASING DIAMETER: 2.0 in. ID



Test Boring No.

MW - 12

Page 1 of 1

Voluntary Investigation Drill Contractor: Nothnagle Start Date: 5/22/02 Project: Project #: 16059 Driller: N. Short Completion Date: 5/22/02 **Buell Automatics** 562.8 ft. AMSL Drilling Method: Hollow stem auger 4-1/4 in ID Client: Elevation: 381 Buell Road Clear; wind 10-15 west Supervisor: P.Smith Weather: Location:

ſ		E	Blows o	n Sampl	er		SAM	PLE		Soil and Rock Information
0	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
		18				0.0	16"	1	0-2'	Gray Gravel, some sand and silt (asphalt surface, road base)
[10							(FILL)
[9						1.7
[4					Dark gray Silt, some roots, moist
		4				0.0	20"	_ 2	2-4'	
1			4							-same, except gray brown, no roots, little clay @ 3.0
Į.				4						3.7
					7					
		3				0.0	14"	3	4-6'	Gray brown fine Sand, some silt, wet
5			4					ļ		
1				4						(LACUSTRINE SAND)
					5			 	2.21	<u> </u>
		7				0.0	14"	4	6-8'	-same, except gray brown
			7							
				11				 		
					9	0.0	4.01	ļ.,	0.40	_
ļ		3	7			0.0	16"	5	8-10'	8.6
}	-		-	4				1		Red brown clayey Silt, trace gravel, moist; plastic
40				4	12			1		(LACUSTRINE SILT and CLAY)
10		1			12	0.0	18"	6	10-12'	-same
		 	4			0.0	10	0	10-12	-same
		 		9				+		11.7
		 		3	15			 		Brown silty fine Sand, wet
		4	ļ		1-15	0.0	16"	7	12-14'	Drown sitty find band, wet
		 	7		<u> </u>		. 10	 '	12 17	(LACUSTRINE SAND)
1		 		7	 			†		(= 1000 1111112 01 1110)
					15					13.8 '
		3			<u> </u>	0.0	16"	8	14-16'	Gray Sand, some silt, little coarse to fine gravel, moist
15			13					† • • • • • • • • • • • • • • • • • • •		
		 		13						(GLACIAL TILL)
					18					
		19				0.0	14"	9	16-18'	-same, except dense, gravelly
			20							
				25						
		L			42					·
		13				0.0	12"	10	18-20'	-same, dry to moist
			17							
				25						
20					35					20.0 '

Boring terminated at 20.0 ft. BGS



HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJEC	CT NAME: Remedial	Investigation	<u> </u>	HOLE DESIGNATI	ON: <u>MW-12</u>	
PROJECT N	NUMBER: 16059			DATE COMPLET	ED: 5/21/02	
	CLIENT: Buell Auto	matics		DRILLING METH	OD: 4-1/4 in ID HSA	
LC	CATION: 381 Buell	Road, Roche	ester, NY	SUPERVIS	OR: P. Smith	
SURFACE SEAL TYPE	Concrete	GROUI		79-	FLUSH MOUNT ROAD BOX	
TOD OF SEAL O	20. 4				WELL CASING ANNULUS BACKFILL TYPE: Cement	
TOP OF SEAL @	ft				SEAL TYPE: Bentonite	
BOTTOM OF SEAL @	ft			_	PACK TYPE: SAND, SIZE Quartzite Sar	nd, 00 N
TOP OF SCREEN @	ft		44			
BOTTOM OF SCREEN @				- 4		
BOTTOM OF HOLE @	ft				NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE	E (BGS)
SCREEN TYPE:	CONTINUOUS	SLOT	PERFORA	TEDx	LOUVRE OTHE	R
SCREEN MATERIAL:	STAINLESS S	STEEL	-	PVC _x_	OTHER	-
SCREEN LENGTH:	15.0	ft	SCREEN DIAM	METER: 2.0 in. ID	SCREEN SLOT SIZE:	0.010 inch
WELL CASING MATERIA	AL:		PVC	WELL (CASING DIAMETER: 2.0 in. ID	

nominal 8 - inch



Test Boring No.

MW - 13

Page 1 of 2

Project: Voluntary Investigation Drill Contractor: Nothnagle Start Date: 5/20/02 Project #: 16059 Driller: N. Short Completion Date: 5/20/02 Hollow stem auger 4-1/4 in ID Client: **Buell Automatics** Elevation: 563.9 ft. AMSL Drilling Method: Supervisor: P.Smith Location: 381 Buell Road Weather: Ptly cdy; 40's

		E	Blows o	n Sampl	er	SAMPLE			Soil and Rock Information	
0	С	0-6"	6-12"	12-18"		PID	Rec.	No.	Depth	Remarks
		2				0.0	18"	1	0-2'	Coarse to fine Sand and Gravel, moist
			3							(FILL) 0.8
				4						Brown silty fine Sand, moist
1					4					
		2				0.0	20"	2	2-4'	-same, except dark brown, moist to wet @ 3.0 '
			2					<u> </u>		
				2				\vdash		
		1			2	0.0	14"	3	4-6'	Red brown Silt, little fine sand and clay, trace coarse sand
5			2			0.0	14	3	4-0	and fine gravel, moist
<u>-</u>				3						and fille graver, moist
				J	8		-	1		
		3			Ť	0.0	16"	4	6-8'	Brown Sand and Silt, wet
			7							
				9						(LACUSTRINE SAND)
					10	1				, , ,
		10				0.0	12"	5	8-10'	- same
			9							
				8						
10					10					
		10				0.0	16"	6	10-12'	- same
			13					1		
		L		18						11.5 '
				ļ	20	0.0	4.011	1 -	40.441	Dense Silt w/ fine sand, trace gravel, 11.5 - 12.0 '
		12	40	<u> </u>		0.0	12"	7	12-14'	Gray brown silty fine Sand, wet
			16	10				 		
			ļ	18	20			<u> </u>		
		8		 	20	0.0	18"	8	14-16'	Gray brown silty fine Sand, trace clay, wet; varves
15		ا 	12	 	 	 5.5 		+ -	17 10	Stay Statistically find during trade diay, wet, varved
<u> </u>			· · <u>-</u>	13		- 				(LACUSTRINE SAND)
		 		 	16					
		7				0.0	16"	9	16-18'	- same
			11	1						
			Ì	11	1					
					11					
		2				0.0	12"	10	18-20'	- same
			9							
				9						
20	Ĺ	L	<u> </u>		11					20.0 '

Stantec

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Test Boring No. MW - 13

Page 2 of 2

Project:	Voluntary Investigation	Drill Contrac	ctor: Nothnagle	Start Date:	5/20/02
Project #:	16059	Driller:	N. Short	Completion Date:	5/20/02
Client:	Buell Automatics	Elevation:	563.9 ft. AMSL	Drilling Method:	Hollow stem auger 4-1/4 in ID
Location:	381 Buell Road	Weather:	Ptly cdy; 40's	Supervisor:	P.Smith

		E	Blows o	n Sampl	er	SAMPLE			Soil and Rock Information	
20	С	0-6"	6-12"	12-18"		PID	Rec.	No.	Depth	Remarks
		7				0.0	16"	11	20-22'	Red brown Silt, some fine sand, trace clay, loose, wet
			9							
				11						(LACUSTRINE SILT and CLAY)
					15					
		2				0.0	12"	12	22-24'	- same
			3					$oxed{oxed}$		
				7				ļ		
					10			1		<u> </u>
		9				0.0	12"	13	24-26'	- same
25			11							25.5'
		ļ	<u> </u>	9				$oxed{oxed}$		Gray Silt, some fine sand, compact; varves 26.0'
					15		4.00	1	00.001	0
		2		ļ		0.0	16"	14	26-28'	Gray brown silty fine Sand, wet, loose
			3					 		(LACLISTRING SAND)
		 	ļ <u> </u>	3	_					(LACUSTRINE SAND)
	-	7	 		3	0.0	12"	15	28-30'	Gray Silt, some fine sand, trace gravel, moist; compact
		- '-	31			0.0	12	13	20-30	Gray Siit, Some line Sand, trace graver, moist, compact
			31	30	<u> </u>			+		(GLACIAL TILL)
30	<u> </u>			30	22			+ -		(GEAGIAL TIEL)
30		8		<u> </u>		0.0	18"	16	30-32'	Gray brown Sand, some silt, trace clay, moist
	<u> </u>		8	 		0.0	10	+ '0	30-32	Gray brown band, some sint, trace day, moist
	\vdash		-	10				+		same, except little clay, trace gravel, moist
		 	 -	 - '	10			+		Gray brown Silt, some clay, little fine sand, moist; plastic
	<u> </u>	2	-			0.0	18"	17	32-34'	1
			3			0.0		 		
			Ť	4	 			1		
				<u> </u>	5			1		34.0 '
	<u> </u>	 	 		 			 		Boring terminated at 34.0 ft. BGS
35			†	1		<u> </u>		1		
								1		Note:
										Monitoring well MW-13 installed in completed borehole.
		 -								See well detail sheet.
			-							
		<u> </u>		1						
								1		
		T			Ì					
40		1		<u> </u>						



HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NUMBE CLIEN	E: Remedial Investigation R: 16059 IT: Buell Automatics N: 381 Buell Road, Roche	DATE COMPLETE DRILLING METHO	DMPLETED: 5/22/02 G METHOD: 4-1/4 in ID HSA PERVISOR: P. Smith		
SURFACE SEAL TYPE Cond	grete GROUI		FLUSH MOUNT ROAD BOX		
TOP OF SEAL @ 2.0	<u>)</u> ft		WELL CASING ANNULUS BACKFILL TYPE: Cement SEAL TYPE: Bentonite		
BOTTOM OF SEAL @4.0	<u>)</u> ft		PACK TYPE: SAND, SIZE Quartzite Sand, 00N		
TOP OF SCREEN @ 5.2	<u>?</u> ft				
BOTTOM OF SCREEN @ 20.	2ft				
LOWER SEAL from 21.0 to 34.0 BOTTOM OF HOLE @ 34.	ft. bgs 0 ft	<u> </u>	NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)		
SCREEN TYPE: C	ONTINUOUS SLOT	_ PERFORATEDx	LOUVRE OTHER		
SCREEN MATERIAL:	STAINLESS STEEL	PVCx	OTHER		
SCREEN LENGTH:	15.0 ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch		
WELL CASING MATERIAL:		PVC WELL CA	ASING DIAMETER: 2.0 in. ID		

nominal 8 - inch



Test Boring No.

MW - 14

Page 1 of 1

Project: Drill Contractor: Nothnagle Start Date: 2/25/03 Voluntary Investigation 2/25/03 Project #: 16059 Driller: S. Loranty Completion Date: 561.3 ft. AMSL Client: **Buell Automatics** Elevation: Drilling Method: Hollow stem auger 4-1/4 in ID Weather: 10°, light snow Supervisor: P.Smith 381 Buell Road Location:

ĺ		· ·	Blows o	n Samp	ler	SAMPLE			Soil and Rock Information		
0	С	0-6"	6-12"	12-18"		PID	Rec.	No.	Depth	Remarks	
			<u> </u>					1	0-2'	Asphalt surface	0.5 '
			14							Gray Sand and Gravel, dry (FILL)	
				18				1 -			1.5 '
					25	0.0				Brown silty fine Sand, some gravel, moist	
		4						2	2-4'	- same, without gravel	
			7							(LACUSTRINE SAND)	
				8							
					10	0.0					4.0 '
		3						3	4-6'	Red brown Sand, some silt and clay, trace gravel,	
5		<u> </u>	6							moist	
				10							
					12	0.0				(LACUSTRINE SILT and CLAY)	
		3	ļ					4	6-8'	- same	
			7								ļ
				9	ļ						}
					12	0.0	·				
		3						5	8-10'	- same	
			7					_			
			<u> </u>	8	ļ						
_10	ļ				13	0.0		+	10.10	4	
		3			ļ			6	10-12'	- same	
		_	3		<u> </u>			ļ			}
	<u> </u>	 	<u> </u>	4				ļ			4001
		<u> </u>		ļ	5	0.0		+ -	40.44	Control City and San and San and San and San and San San San San San San San San San San	12.0 '
	<u> </u>	1	 	 	ļ	 		7	12-14'	Gray brown Silt, some clay and fine sand, moist	
		ļ	3	 	<u> </u>	ļ		-		(LACLICIDINE SUIT and CLAV)	
		 	ļ	5	 	<u> </u>				(LACUSTRINE SILT and CLAY)	
		 			6	0.0		8	14-16'	- same	15.2
15		2	2	1	 			0	14-10	Brown fine Sand, some silt, dry	13.2
15	├	 	3	5	 	 		+		(LACUSTRINE SAND)	
			 	3	11	0.0	<u>. </u>	+		(LACOSTRINE SAND)	16.0
		<u> </u>	 	 	''	0.0				Boring terminated at 16.0 ft. BGS	10.0
			<u> </u>	ļ	<u> </u>	 				Borning terminated at 16.0 ft. BGS	
				_	 	 -		+		Note:	
	├	 	-	-	-	 		+		Monitoring well MW-14 installed in completed	
	<u> </u>	 	 		-	-		+		borehole. See well detail sheet.	
	<u> </u>	ļ	 	 	+	-				porchole. See well detail sfieet.	
			 	 	 			+			ł
20		 	+	 	-	ļ	-	+			j
20	1	1	I			l	L				



OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT	NAME:	Remedial	Investigation
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PROJECT NUMBER: 16059

CLIENT: Buell Automatics

LOCATION: 381 Buell Road, Rochester, NY

HOLE DESIGNATION: MW-14

DATE COMPLETED: 2/25/03

DRILLING METHOD: 4-1/4 in ID HSA

SUPERVISOR: P. Smith

SURFACE SEAL TYPE	Concrete	_		_		FLUSH MOUN	T ROAD BOX
		GROUN	-		<u>T</u>		
						WELL CASING ANNULUS BAG	
TOP OF SEAL @	1.5ft					TYPE	: Cement
					_	SEAL TYPE:	Bentonite
BOTTOM OF SEAL @	3.0 ft					PACK TYPE: SAND, SIZE	Quartzite Sand, 00N
TOP OF SCREEN @	ft		3			·	
				∄ . │			
BOTTOM OF SCREEN @							
LOWER SEAL from 13.0 t	to 16.0 ft. bgs					NOTE:	
BOTTOM OF HOLE @	16.0ft					ALL DIMENSION BELOW GROU	ONS ARE JND SURFACE (BGS)
	-						
SCREEN TYPE:	CONTINUOUS	SLOT	PERFOR	ATEDx_		LOUVRE	OTHE <u>R</u>
SCREEN MATERIAL:	STAINLESS S	TEEL		PVCx	<u></u>	OTHER	
SCREEN LENGTH:	9.0	ft :	SCREEN DIA	METER: 2	.0 in. ID	SCREE	N SLOT SIZE: 0.010 inch
WELL CASING MATERIA	L:	F	PVC	_	WELL CAS	SING DIAMETER	::2.0 in. ID
HOLE DIAMETER:	nom	inal 8 - inch					

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Test Boring No.

MW - 15

Page 1 of 1

Project: Voluntary Investigation Drill Contractor: Nothnagle Start Date: 2/25/03 Project #: 16059 Driller: S. Loranty Completion Date: 2/25/03 Client: Elevation: 560.5 ft. AMSL Drilling Method: 4-1/4 in ID H S A **Buell Automatics** Supervisor: Weather: 10°, light snow P.Smith Location: 381 Buell Road

			Blows o	n Sampl	er	SAMPLE			Soil and Rock Information		
0	С	0-6"	6-12"	12-18"		PID	Rec.	No.	Depth	Remarks	ļ
								1	0-2'	Asphalt surface	0.5 '
			34							Gray Silt and gravel, dry (FILL)	
				26							1.5 '
					13	0.0				Brown fine silt fine SAND, moist	
		3						2	2-4'	- same, except moist to wet	
		L	10								
				11						(LACUSTRINE SAND)	
					4	0.0		.			4.0 '
		3						3	4-6'	- same, with trace gravel	
_ 5		<u> </u>	6					1			
		ļ		7				<u> </u>			
					9	0.0	-				l
		6			ļ			4	6-8'	- same	
			12		ļ						
				14	1.0						
	<u> </u>				16	0.0		1	0.401	<u> </u>	
		4				 		5	8-10'		9.0 '
		 	6	—	-					Gray and red brown Clay, some silt, little fine sand,	9.0
40				7		00	_				
_10		4		1	8	0.0		6	10-12'	moist - same	
		4	7			\vdash		10	10-12	(LACUSTRINE SILT and CLAY)	
				9						(LACOSTRINE SILT and CLAT)	11.5 '
	<u> </u>	-	<u> </u>	-	13	0.0	<u> </u>	 		Brown very fine Sand, some silt, dry (LACUSTRINE	11.5
		 	-		13	0.0		-		SAND)	12.0 '
	<u> </u>	↓	ļ	ļ			-	+		Boring terminated at 12.0 ft. BGS	12.0
			<u> </u>	<u> </u>		 		+		Boring terminated at 12.0 ft. BGS	
		ļ		ļ						Nets	
		ļ				\vdash		+		Note: 1. Monitoring well MW-15 installed in completed	
15	 	<u> </u>	-	 						borehole. See well detail sheet.	
15	├	 			-			 		borenole. See well detail sheet.	
		 		1	 			1			
		 	ļ	 	 			1			
		 		}	 	 		+			
		 	 	 	 			+			
	\vdash	 	 	 		 		+			1
		├	1		 	+ +		+			
	<u> </u>	┼	 	}	<u> </u>	 		+			
	\vdash	 	 	 	<u> </u>			+-			
20		┼	 	 	-	1		+			
		ــــــــــــــــــــــــــــــــــــــ		1	<u> </u>				L		



OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME:	Remedial Investigation	HOLE DESIGNATION:	MW-15
PROJECT NUMBER:	16059	DATE COMPLETED:	2/25/03
CLIENT:	Buell Automatics	DRILLING METHOD:	4-1/4 in ID HSA
LOCATION:	381 Buell Road, Rochester, NY	SUPERVISOR:	P. Smith

SURFACE SEAL TYPE	Concrete	<i>_</i>	FLUSH MOUNT ROAD BOX
·	GROU		
			WELL CASING ANNULUS BACKFILL TYPE: Cement
TOP OF SEAL @	1.5 ft		SEAL TYPE: Bentonite
BOTTOM OF SEAL @	3.0 ft		PACK TYPE: SAND, SIZE Quartzite Sand, 00N
TOP OF SCREEN @	ft		
BOTTOM OF SCREEN @			
LOWER SEAL from 10.0 to	12.0 ft. bgs	4	NOTE:
BOTTOM OF HOLE @	ft		ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)
SCREEN TYPE:	CONTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER
SCREEN MATERIAL:	STAINLESS STEEL	PVCx	OTHER
SCREEN LENGTH:	ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch
WELL CASING MATERIAL	: 	PVC WELL C	CASING DIAMETER: 2.0 in. ID
HOLE DIAMETER:	nominal 8 - incl	1	



Test Boring No.

MW - 16

Page 1 of 1

Project:	Remedial Investigation	Drill Contractor:	Nothnagle	Start Date:	11/22/05
Project #:	16059	Driller:	K. Bush	Completion Date:	11/22/05
Client:	Buell Automatics	Elevation:	562.6	Drilling Method:	Hollow stem auger 4-1/4 in ID
Location:	381 Buell Road	Weather:		Supervisor:	P.Smith

[Blows or	n Sampl	er	SAMPLE			Soil and Rock Information		
0	С	0-6"	6-12"	12-18"		PID	Rec.	No.	Depth	Remarks	
		0				1,600	16"	1	0-2'	Concrete surface	0.5'
			1							Gray SAND, some Silt, moist; strong odor	
				2						(FILL)	- 1
l					3					1	2.0'
l		3				39	12"	2	2-4'	Dark gray, fine Sand, some Silt	
			3		<u> </u>			1			
ı				5						(LACUSTRINE SAND)	
		-			5						
		3				23	16"	3	4-6'	same, except wet	
5			7	·							
				9							5.5'
					7					Red brown SILT, some clay, moist	
		3		1		88	18"	4	6-8'	1	
			8				·			(LACUSTRINE SILT and CLAY)	
				10			····				
					13						8.0'
						20	18"	5	8-10'	Interbedded Clay and Sand, wet	
										}	9.0'
10										Gray brown SILT, some Sand, moist	
										(LACUSTRINE SILT)	10.0'
								1.		Boring terminated at 10.0 ft. BGS	
										·	
		<u> </u>									
										Note.	- [
										Monitoring well MW-16 installed in completed	1
15	_									borehole. See well detail sheet.	
											
			<u> </u>								
				1				1			
											1
		ļ						1			
		<u> </u>						1			
20											



SCREEN MATERIAL:

WELL CASING MATERIAL:

SCREEN LENGTH:

HOLE DIAMETER:

STAINLESS STEEL _____

ft

nominal 8 - inch

PVC

4.0

PROJECT NAME: Remedial Investigation

OVERBURDEN MONITORING WELL

DESIGN DETAILS

HOLE DESIGNATION: MW-16

	JMBER: 16059	DATE COMPLETED	
	CLIENT: Buell Automatics	DRILLING METHOD	
LOC	CATION: 381 Buell Road, Roches	ster, NY SUPERVISOR	: P. Smith
SURFACE SEAL TYPE	Concrete GROUN		FLUSH MOUNT ROAD BOX
TOP OF SEAL @	1.0 ft		WELL CASING ANNULUS BACKFILL TYPE: Cement
TOT OF SEAL @			SEAL TYPE: Bentonite
BOTTOM OF SEAL @	ft		PACK TYPE: SAND, SIZE Quartzite Sand, 00N
TOP OF SCREEN @	4.0 ft		OAND, 0122 Qualitie Gallet, 0014
BOTTOM OF SCREEN @	ft		
LOWER SEAL from 8.0 to	10.0 ft. bgs	4	NOTE:
BOTTOM OF HOLE @	ft		ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)
			LOUNTE
SCREEN TYPE:	CONTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER

PVC __x__

SCREEN DIAMETER: 2.0 in. ID

OTHER

WELL CASING DIAMETER: 2.0 in. ID

SCREEN SLOT SIZE: 0.010 inch



Test Boring No.

Page 1 of 1

MW - 17

Start Date: 11/22/05 Project: Remedial Investigation Drill Contractor: Nothnagle 11/22/05 K. Bush Completion Date: Project #: 16059 Driller: Drilling Method: Hollow stem auger 4-1/4 in ID Client: **Buell Automatics** Elevation: 381 Buell Road Weather: Supervisor: P.Smith Location:

		Blows on Sampler			er		SAM	IPLE		Soil and Rock Information
0	С	0-6"	6-12"	12-18"		PID	Rec.	No.	Depth	Remarks
		25				0.0	18"	1	0-2'	Asphalt surface 0.5 '
			24					1		Gray brown, coarse to fine SAND, some Silt, moist
				8				1		(FILL) 1.5'
					7					Dark gray SILT, some Sand, moist 2.0'
		7				0.0	18"	2	2-4'	Red brown fine SAND, some Silt, trace fine Gravel
			6							and Clay, moist
				8						(LACUSTRINE SAND)
					10					
		3				0.4	12"	3	4-6'	same
5			8							
				9						
					11			\perp		_
		2				3.4	12"	4	6-8'	same
			6		ļ	ļ		+		
				12					I	7.5'
					20	0.0	0.411	+ - 1	0.40	Brown fine SAND, some silt, wet
		3_		ļ	1	0.6	24"	5	8-10'	same
		-	8	7				+		Red brown SILT, some clay and fine sand, moist
10		1			8			+		Red blown Sill i, some day and fine saild, moist
10		3	ļ			0.5	24"	6	10-12'	same (LACUSTRINE SILT and CLAY)
		-	5		 	0.5		+	10-12	Same (LACOSTRINE SIET and CEAT)
				14				+		11.5'
				<u> </u>	18			+		Brown fine SAND, some silt, wet
		4			- 	1.2	24"	7	12-14'	same
			8		 	<u> </u>		+ '	,	(LACUSTRINE SAND)
		 		7				1		(2000)
		-		 	5			1		14.0'
		2	<u> </u>	-		1.3	24"	8	14-16'	Gray SILT, some clay and fine sand, moist
15			WH					 		
				2	1			1		(LACUSTRINE SILT and CLAY)
		1			2					
		WH	1			1.2	24"	9	16-18'	same
			WH							
				2						
					2					18.0'
										Boring terminated at 18.0 ft. BGS
										Note:
										Monitoring well MW-17 installed in completed
20										borehole. See well detail sheet.



WELL CASING MATERIAL:

HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAME	: Remedial Investiga	tion HOLE DESIGNATION:	HOLE DESIGNATION: MW-17				
PROJECT NUMBER	R: 16059	DATE COMPLETED:	11/22/05				
CLIENT	: Buell Automatics	DRILLING METHOD:	4-1/4 in ID HSA				
LOCATION	I: 381 Buell Road, Ro	ochester, NY SUPERVISOR:	P. Smith				
			· · · · · · · · · · · · · · · · · · ·				
SURFACE SEAL TYPE Concre			FLUSH MOUNT ROAD BOX				
TOP OF SEAL @ 3.0	ft		WELL CASING ANNULUS BACKFILL TYPE: Cement SEAL TYPE: Bentonite				
BOTTOM OF SEAL @ 6.0	ft		PACK TYPE: Bentonite PACK TYPE: SAND, SIZE Quartzite Sand, 00N				
TOP OF SCREEN @ 7.0	ft						
BOTTOM OF SCREEN @ 17.0	ft						
BOTTOM OF HOLE @ 18.0	ft		NOTE: ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)				
SCREEN TYPE: CO	NTINUOUS SLOT_	PERFORATEDx	LOUVRE OTHER				
SCREEN MATERIAL: S	TAINLESS STEEL _	PVCx	OTHER				
		SCREEN DIAMETER: 2.0 in, ID	SCREEN SLOT SIZE: 0.010 inch				

PVC

nominal 8 - inch

WELL CASING DIAMETER: 2.0 in. ID



Test Boring No.

MW - 18

Page 1 of 2

Project:	Remedial Investigation	Drill Contractor:	Nothnagle	Start Date:	11/22/05
Project #:	16059	Driller:	K. Bush	Completion Date:	11/22/05
Client:	Buell Automatics	Elevation:		Drilling Method:	Hollow stem auger 4-1/4 in ID
Location:	381 Buell Road	Weather:		Supervisor:	P.Smith

		В	lows or			SAMPLE			Soil and Rock Information	
0	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
		21				0.0	12"	1	0-2'	Asphalt surface 0.5 '
			13							Dark gray silty fine SAND, trace Gravel, dry
				9						(FILL)
				_	6					2.0'
		6				0.0	18"	2	2-4'	Red brown SILT, some clay, dry; dessication cracks
			6					ļ		
				10						
					12					
		5				0.0	18"	3	4-6'	same
5			9							(A OUGTBUNE 1 OU AVC)
	<u> </u>			13	40			ļ		(LACUSTRINE and CLAY)
					16	0.0	40"	+	C 01	l
		4		ļ		0.0	18"	4	6-8'	same
			9							
	<u> </u>			12	17			1		
	-	4			17	0.0	18"	5	8-10'	same, with trace Sand, moist
	<u> </u>	-4	11			0.0	10	13	0-10	Same, with trace Sand, moist
<u> </u>	├─	 	'''	14				+ -		
10	<u> </u>	┼		17	16	-		1		
		4			 	0.0	18"	6	10-12'	Isame
		 	6				10	┿	10 12	
	<u> </u>	1	<u> </u>	9	·					
		1	····	·	12			1		
	-	2				0.0	18"	7	12-14'	same
		†	3							(LACUSTRINE and CLAY)
			···	5						
					4					
		2				0.0	24"	8	14-16'	same
15			3							
				6						
					6]
		WH				0.0	24"	9	16-18'	same
			1					ļ		17.0'
		ļ		2	<u> </u>			<u> </u>		Gray clayey SILT, some fine gravel, wet
		 			1				10.00	
	<u> </u>	WH	<u> </u>	 		0.0	24"	10	18-20'	Same, with thin seams of coarse Sand, moist to wet
	ļ	<u> </u>	2			-		 		
		 		1	1			 		
20	<u>L</u>				11					



Test Boring No.

MW - 18

Page 2 of 2

Project:	Remedial Investigation	Drill Contractor:	Nothnagle	Start Date:	11/22/05
Project #:	16059	Driller:	K. Bush	Completion Date:	11/22/05
Client:	Buell Automatics	Elevation:		Drilling Method:	Hollow stem auger 4-1/4 in ID
Location:	381 Buell Road	Weather:		Supervisor:	P.Smith

		В	lows or	n Samp	ler	SAMPLE				Soil and Rock Information
0	С	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
		3				0.0	24"	11	20-22'	Gray clayey SILT, some Sand, wet
			9							(LACUSTRINE and CLAY)
				7						21.0'
					9		-			Buff fine SAND, some Silt, dry
										(LACUSTRINE SAND) 22.0'
										Boring terminated at 22.0 ft. BGS
										_
										Note:
25							-			Monitoring well MW-18 installed in completed
										borehole. See well detail sheet.
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	<u> </u>				<u> </u>	<u> </u>	L	L	L	



OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NUMBE CLIEN	IE: Remedial Investigation IR: 16059 IT: Buell Automatics IN: 381 Buell Road, Roche	DATE COMPLETED: DRILLING METHOD:			
SURFACE SEAL TYPE Cond	crete GROUN		FLUSH MOUNT ROAD BOX		
TOP OF SEAL @ 10.	<u>6</u> ft		WELL CASING ANNULUS BACKFILL TYPE: Cement SEAL TYPE: Bentonite		
BOTTOM OF SEAL @ 13.	<u>2</u> ft		PACK TYPE:		
TOP OF SCREEN @ 15.	<u>5</u> ft		SAND, SIZE Quartzite Sand, 00N		
BOTTOM OF SCREEN @ 20.	<u>.5</u> ft				
LOWER SEAL from 20.5 to 21.0	ft. bgs		NOTE:		
BOTTOM OF HOLE @ 21.	<u>.0</u> ft		ALL DIMENSIONS ARE BELOW GROUND SURFACE (BGS)		
SCREEN TYPE: C	ONTINUOUS SLOT	PERFORATEDx	LOUVRE OTHER		
SCREEN MATERIAL:	STAINLESS STEEL	PVCx	OTHER		
SCREEN LENGTH:	5.0 ft	SCREEN DIAMETER: 2.0 in. ID	SCREEN SLOT SIZE: 0.010 inch		
WELL CASING MATERIAL:		PVC WELL CAS	ING DIAMETER: 2.0 in. ID		

nominal 8 - inch

HOLE DIAMETER:



HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

HOLE DESIGNATION: RW-1

PROJECT NAME: Remedial Investigation

PROJECT NU			DATE COMPLETED:	12/30/03		
C	LIENT: Buell Automatic	os	DRILLING METHOD: Backhoe			
LOCA	ATION: 381 Buell Road	, Rochester, NY	SUPERVISOR:	A. Krause		
	-					
SURFACE SEAL TYPE	Concrete		_	FLUSH MOUNT	ROAD BOX	
	 Gi	ROUND				
				WELL CASING ANNULUS BAC TYPE:	KFILL Cement	
FOP OF SEAL @	<u>0.5</u> ft			•	Bentonite	
BOTTOM OF SEAL @	<u>1.5</u> ft			PACK TYPE: SAND, SIZE	Quartzite San	d, 00N
TOP OF SCREEN @	<u>2.0</u> ft		4			
BOTTOM OF SCREEN @ $_{ ext{-}}$	6.0 ft		• •			
BOTTOM OF HOLE @	12.0 ft			NOTE: ALL DIMENSIO BELOW GROUI		(BGS)
	•					
SCREEN TYPE:	CONTINUOUS SLO	T PERFORATED	Dx	LOUVRE	OTHE	₹
SCREEN MATÉRIAL:	STAINLESS STEEL	L_X_ P	VC	OTHER		
SCREEN LENGTH:	4.0 ft	t SCREEN DIAMET	ER: <u>6.0 in. ID</u>	SCREEN	SLOT SIZE: _	0.010 inch
WELL CASING MATERIAL:	_	Stainless Steel	WELL CAS	ING DIAMETER:	6.0 in.	

NA



HOLE DIAMETER:

OVERBURDEN MONITORING WELL

DESIGN DETAILS

PROJECT NAM	E: Remedial Investig		LE DESIGNATION:			
PROJECT NUMBE			ATE COMPLETED:			
	T: Buell Automatics		RILLING METHOD:			
LOCATIO	N: 381 Buell Road, F	Rochester, NY	SUPERVISOR:	A. Krause		
SURFACE SEAL TYPE Conc				FLUSH MOUNT	ROAD BOX	
TOP OF SEAL @ 0.5	5ft			-	KFILL Cement Bentonite	
BOTTOM OF SEAL @ 1.0	<u>)</u> ft			PACK TYPE: SAND, SIZE	Quartzite Sand, 00N	
TOP OF SCREEN @ 1.5	<u>5</u> ft			_	,	
BOTTOM OF SCREEN @ 6.5	5ft		:			
BOTTOM OF HOLE @ 12.	<u>0</u> ft			NOTE: ALL DIMENSION BELOW GROUN	NS ARE ND SURFACE (BGS)	
				LOUNDE	OTUED	
SCREEN TYPE: CO	ONTINUOUS SLOT	PERFORATED _	_x	LOUVRE	OTHE <u>R</u>	
SCREEN MATERIAL:	STAINLESS STEEL	_X PVC	:	OTHER		
SCREEN LENGTH:	5.0 ft	SCREEN DIAMETER	8: <u>6.0 in. ID</u>	SCREEN	SLOT SIZE: 0.010 inch	
WELL CASING MATERIAL:		Stainless Steel	WELL CAS	ING DIAMETER:	6.0 in.	

NA



2250 Brigton Henrietta Town Line Road Rochester, NY 14623

(585) 475-1440

Test Boring No. GP-1

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contracto	or: SLC	Start Date:	12/24/03
Project #:	16059	_ Driller: R	l. Rose	Completion Date:	12/24/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: In	nterior	Supervisor:	A. Krause

			AMPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
					Concrete).5'
					Concrete and Asphalt	
						1.7
	7		1	1.7-5.7'	Red, clayey fine SAND.	
				-		
				1		
	14			-	Gray, fine SAND, little Clay, wet	
5					Totaly, into or was, made oray, were	
				1		
		·		1		
	24		2	5.7-9.7'	s.a.a.	
				_		
	45			-	Construction CANID work	
	15			4	Gray, very fine SAND, wet	
				4		
10				-		
	5		3	9.7-13.7'	Brown, fine SAND, irridescent sheen, slight odor, wet	
				1	, , , , , , , , , , , , , , , , , , , ,	
				1		
						3.7'
				4	Boring terminated at 13.7'	
45				4		
15	-			┨		
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				1		
			ļ	1		
				1		
]		
	<u> </u>			4		
20				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-2

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor:	SLC	Start Date:	12/24/03
Project #:	16059	Driller: R. R	lose	Completion Date:	12/24/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Inter	ior	Supervisor:	A. Krause

1	SAMPLE OF THE PROPERTY OF THE				Soil Information
0	PID	Rec.	No.	Depth	Remarks
					Concrete
	17			1.0-5.0'	1.0'
	17	-	1	1.0-5.0	Red CLAY, moist
				1	
]	
5	22				Gray fine SAND, wet.
	22			1	Gray line SAND, wet.
				1	
]	
	30		2	5.0-9.0'	Gray, clayey fine SAND, wet
İ				1	
				1	
	14]	Brown, fine SAND, wet
10					
	10	-	3	9.0-12.7'	
	10			9.0-12.7	IS.a.a.
				1	
	3				12.7'
					Equipment Refusal at 12.7'
				4	
	 			1	
15				1	
]	
				4	
			 	-	
	 			1	
				1	
20	L	L	<u> </u>	<u> </u>	

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



2250 Brigton Henrietta Town Line Road Rochester, NY 14623

(585) 475-1440

Test Boring No. GP-3

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contra	ctor: SLC	Start Date:	12/24/2003
Project #:	16059	Driller:	R. Rose	Completion Date:	12/24/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	A. Krause

		S	AMPLE		Soil Information
0	PID	Rec.	No.	Depth	Remarks
					Concrete 1.3'
	250		1	1.3-5.3'	Asphalt
	33				Brown, fine SAND, moist
_					D 1014Y
5	19				Red CLAY, moist
	\vdash			E 2 0 21	Brown and gray fine SAND, wet, with product globules/sheen.
	9		2	5.3-9.3'	Brown and gray line SAND, wet, with product globules/sneen.
	13				Black staining.
	2		3	9.3-12.0'	
10					Brown, gray fine SAND, wet
					12.0'
					Equipment Refusal at 12.0'
]	
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Notes:

1. PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-4

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contract	ctor: SLC	Start Date:	12/24/2003
Project #:	16059	Driller:	R. Rose	Completion Date:	12/24/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	A. Krause

	SAMPLE PID Rec. No. Depth				Soil Information					
0	PID				Remarks					
T					Concrete	0.:				
Ì	2		1	0.8-4.8	Gray, fine SAND, moist, black staining.	•				
ı				1						
Ì				1						
ŀ				1						
7			-	1						
ŀ				1						
Ì				1						
ŀ				1						
5	2		2	4.8-8.5'	Red CLAY to clayey fine SAND, little fine and medium GRAVEL, moist.					
7				1	, , , , , , , , , , , , , , , , , , , ,					
ŀ				1						
ŀ				1						
ŀ			-	1						
ŀ				1						
7			_	1		8				
ŀ				-	Equipment Refusal at 8.0'					
ŀ		-		1	Equipment Notabal at 6.6					
ŀ				1						
o				1						
7				1						
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-5

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor: SLC	Start Date:	12/31/03
Project #:	16059	Driller: R. Rose	Completion Date:	12/31/03
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P. Smith

	SAMPLE 0 PID Rec. No. Depth				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
						0.6'
		18"	1	.6-2.6'	Gray, brown, fine SAND, moist.	
				_		
			ļ	1		
	0.0	0.011	 _	1	(511.1)	
		36"	2	2.6-6.6'	(FILL)	
	 		1	-	- same	
			 	-	- Same	
5	<u> </u>	_	<u> </u>			
	<u> </u>					!
	193					6.6'
		36"	3	6.6-10.6	Brown silty fine SAND, wet.	
	-		 	4		
		ļ	 	┥	(LACUSTRINE SAND)	
			<u> </u>	-	(EAGGOTTINE GARD)	
	8,000		 	-	same, with trace brown product, strong odor (9-9.6 ft.)	9.6'
10]	same, with trace gravel	
	945					10.6'
		24"	4	10.6-12.6	Brown silty fine SAND, moist.	
		ļ	<u> </u>	4		
	4.0	 	 	-		
	1-4.0	24"	5	12.6-14.6	- same	
		- '-	 	1	- Same	
	3.0					14.6'
15	5				Boring terminated at 14.6 ft. bgs	
		ļ	ļ			
		ļ	 	4		
	-	 	 	\dashv		
		├		-		
	 	<u> </u>	+ -	1		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-6

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contra	ctor: SLC	Start Date:	12/31/03
Project #:	16059	Driller:	R. Rose	Completion Date:	12/31/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P. Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
						0.5
		24"	11	0.5-2.5'	Gray, brown, fine SAND, moist.	
				_		
				-	/EU 1 \	
		48"	2	2.5-6.5'	- same	
				2.5-0.5	- Sumo	
		_		1		
				1		
5]	- irridescent sheen at 5-6 ft.	
	L			4	- same except wet @ 6 ft.	
	755	48"	2	6 E 10 E!	- irridescent sheen, trace product 6.5-7.5'	6.5
	2,480		3	6.5-10.5'		
	2,460			1	Brown, silty fine SAND, wet.	
		-	-	1		
				1		
]		
10				<u> </u>	(LACUSTRINE SAND)	
	22	0.411	_	10.5.10.5		
		24"	4	10.5-12.5	- same	
		 	-	┨		
	6.0			1		12.5
		 		 	Boring terminated at 12.5 ft. bgs	
				1	-	
]		
				1		
15	-			4		
	<u> </u>	ļi		4		
				1		
	-			1		
		<u> </u>		1		
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	<u> </u>	ļ		1		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-7

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contra	ctor: SLC	Start Date:	12/31/2003
Project #:	16059	 Driller:	Driller: R. Rose		12/31/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P. Smith

ſ	SAMPLE				Soil Information		
10	PID	Rec.	No.	Depth	Remarks	<u> </u>	
						0.5'	
Ī		24"	1	0.5-2.5'	Gray brown fine SAND, some silt, moist		
Ī]			
Ī				1			
[24"	2	2.5-6.5'	- same		
]			
]			
					- same, except wet at 4.5 ft. (FILL)		
5		_					
ļ							
				4			
	1.5			0.5.10.5		7.01	
ļ		24"	3	6.5-10.5		7.0 '	
				4	Gray fine SAND, some silt, wet, with trace irridescent sheen.		
1				4			
- 1				-	(LACUSTRINE SAND)		
ŀ		-		1	(LACUSTRINE SAND)		
10	42.2			-		!	
-10	1.7			-	- same, except brown		
- 1		_			Boring terminated at 10.5'	10.5'	
					Borning terminated at 10.0	10.5	
1		-					
ŀ				1		•	
			_	1			
				1			
15							
				1			
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- 1							
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-8

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contra	ctor: SLC	Start Date:	12/31/2003
Project #:	16059	Driller:	R. Rose	Completion Date:	12/31/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P. Smith

1	SAMPLE				Soil Information		
0	PID	Rec.	No.	Depth	Remarks		
						0.5'	
		12"	1	0.5-2.5'	Gray brown fine SAND, some silt, moist.		
		_		1			
				1			
				1			
		24"	2	2.5-6.5'	- same except wet at 5.5 ft. (FILL)		
					, · ·		
				1			
				1			
5				1			
				i			
						6.0	
		48"	3	6.5-10.5'	Brown sandy SILT, wet, with dark brown product, irridescent sheen.		
	77			1			
				1	(LACUSTRINE SAND)		
					, , , , , , , , , , , , , , , , , , ,		
10				1			
	22			1		10.5	
				· · · · ·	Boring terminated at 10.5'		
				1			
				1			
				1			
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				1			
				1			
				1			
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-9

Page 1 of 1

Project:	Voluntary Investigation - IRM	Drill Contractor: SLC	Start Date:	12/31/2003
Project #:	16059	Driller: R. Rose	Completion Date:	12/31/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P. Smith

	SAMPLE				Soil Information	\neg	
0	PID Rec. No.			Depth	Remarks		
	<u> </u>					.5'	
	_				Boring advanced to 8.5 ft. w/o sampling.		
				1			
]		1	
_							
5						- 1	
				-			
				1			
				4			
				1		- 1	
	\vdash			1	8.	.5'	
	\vdash		1	8.5-12.5'	Brown fine sandy SILT, wet.		
				1	,		
10	0.1			1			
					(LACUSTRINE SILT AND CLAY)		
						ļ	
				_		- 1	
	0.0				12.	.5'	
				_	Boring terminated at 12.5'		
				1			
	<u> </u>		ļ	4			
45			-	-			
15	-			4			
	 		 	-			
	ļ			1		ļ	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-10

Page 1 of 2

Project:	Voluntary Investigation - IRM	Drill Contract	ctor: SLC	Start Date:	12/31/2003
Project #:	16059	Driller:	R. Rose	Completion Date:	12/31/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	_Weather:	Interior	Supervisor:	P. Smith/A. Krause

[S	AMPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
						0.5'
					Boring advanced to 16 ft. w/o sampling.	
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				4		46 0.
	ļ			16 201	Gray fine SAND, some silt, wet.	16.0'
			1	10-20	Jordy line Sand, Some Sill, well.	
	 	-		-		
	 			1	(LACUSTRINE SAND)	
				1	(
				1		
						19.8'
20	0			19.8-20	Brown gray clayey fine SAND, some silt and gravel, moist.	

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. GP-10

Page 2 of 2

Project: Volu	ıntary Investigation - IRM	Drill Contrac	ctor: SLC	Start Date:	12/31/2003
Project #: 160	59	Driller:	R. Rose	Completion Date:	12/31/2003
Client: Bue	II Automatics	Elevation:		Drilling Method:	Geoprobe
Location: 381	Buell Road	Weather:	Interior	Supervisor:	P. Smith/A. Krause

		S	AMPLE		Soil Information	
20	PID	Rec.	No.	Depth		
			2	20-24	Brown gray clayey fine SAND, trace gravel, moist.	
				1		
				1		
				1	(GLACIAL TILL)	
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]		
	0.0	·		1		24.0'
				1	Boring terminated @ 24.0 ft. bgs	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.

Stantec

2250 Brigton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No. B-8

Page 1 of 1

Project: Voluntary Investigation Drill Contractor: Nothnagle Start Date: 8/12/2002 Project #: 16059 Completion Date: 8/12/2002 Driller: N. Short **Buell Automatics** Drilling Method: Manual Geoprobe Client: Elevation: Supervisor: 381 Buell Road Weather: P.Smith Location: Interior

		SAI	MPLE		Soil Information]
0	PID Rec. No. Depti				Remarks	
				0.5-2.5	Concrete	0.5 '
]	Coarse to fine Sand and Gravel, moist	
	3,400				(FILL)	
					(Black from 1.8 to 2.5 ft.; strong odor)	
		40"		0.5.4.5		201
		18"	2	2.5-4.5	Brown silty fine SAND, moist	3.0 '
				-	(LACUSTRINE SAND)	
	3,000			ł	(EAGGOTTINE GAND)	
5		12"	3	4.5-6.5	- same	
				1		
]		
	2,200					6.5 '
					Boring terminated at 6.5 ft. bgs	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-9

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Project:	Voluntary Investigation	Drill Contractor: Nothnagle	Start Date:	8/12/2002
Project #:	16059	Driller: N. Short	Completion Date:	8/12/2002
Client:	Buell Automatics	Elevation:	Drilling Method:	Manual Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
		12"	1	0.5-2.5'	Concrete	0.5
				1	Brown SILT and Gravel, moist, mild odor	
				1	(FILL)	
				1		2.
	17	18"	2	2.5-4.5	Brown silty fine SAND, moist to wet	
				1		
				1		
	83		3	4.5-6.5	' - same, with strong odor, trace iridescent sheen, wet	
5]		
]		
				1	(LACUSTRINE SAND)	
	223					6.
					Boring terminated at 6.5 ft. bgs	
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10				4		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-10

Page 1 of 1

Project:	Voluntary Investigation	Drill Contractor: Nothnagle	Start Date:	8/12/2002
Project #:	16059	Driller: N. Short	Completion Date:	8/12/2002
Client:	Buell Automatics	Elevation:	Drilling Method:	Manual Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

				Soil Information	
PID				Remarks	
	24"	1	0.5-2.5	Concrete	0.5
			1	Brown sandy SILT, moist, moderate odor	
				(LACUSTRINE SAND)	
118		2	2.5-4.5	- same	
			_		•
163	<u> </u>		4	Do the control of Table 1	3.
<u> </u>	ļ		-	Red brown clayey SILT, moist	
91		3	4.5-6.0	(LACUSTRINE SILT AND CLAY) - same	
+	 		4.5-6.0	- Same	
36			┨		6.
130	 		+	Boring terminated at 6.0 ft. bgs	
_			┨	Bonnig terminated at 0.0 it. bgs	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-11

Page 1 of 1

8/8/2002 Project: Voluntary Investigation **Drill Contractor:** Nothnagle Start Date: 8/8/2002 16059 Driller: N. Short Completion Date: Project #: Drilling Method: Geoprobe Client: **Buell Automatics** Elevation: Clear, 70s Supervisor: P.Smith 381 Buell Road Weather: Location:

		SA	MPLE		Soil Information	
o	PID	Rec.	No.	Depth		
		36"	1	0-4.0 '	Gray coarse to fine Sand and Gravel, dry (asphalt surface, gravel base)	
				<u> </u>	(FILL)	
	0.0			4	D. C. C. C. C. C. C. C. C. C. C. C. C. C.	2.0 '
				1	Brown fine sandy Silt, moist	
				1		
	10			1		
		48"	2	4.0-8.0	- same, except gray	
5]		
				1		
	37			4	wet @ 6 ft. with very strong odor	
		·		┨		
				1	(LACUSTRINE SAND)	
	42			1	(=========,	
		28"	3	8.0-12	- poor recovery, sampler overpacked	
]		
4.0				4		
10	0.0			4		
				1		
				1		
	4.0			1		12.0
					Boring terminated at 12.0 ft. bgs	
	Ĺ					
		_		4		
	$\vdash\vdash$			-		
15				1		
	 			1		
]		
				4		
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20				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-12

Page 1 of 1

Project:	Voluntary Investigation	Drill Contractor: Nothnagle	Start Date:	8/8/2002
Project #:	16059	Driller: N. Short	Completion Date:	8/8/2002
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Clear, 70s	Supervisor:	P.Smith

[SA	MPLE		Soil Information	
o	PID		No.	Depth	Remarks	
		36"	1	0-4.0	Gray coarse to fine Sand and Gravel, dry (asphalt surface, gravel base)	
]		
				ļ	(FILL)	
,	0			1	Design allly fine County assist	2.0 '
				-	Brown silty fine Sand, moist	
				1		
Ì	0			1	- same, except wet @ 3.5 (LACUSTRINE SAND)	
l		48"	2	4.0-8.0		
5	48					5.3 '
				1	Red brown Silt and Clay, moist	
				4		
			.	4		
				1		
	0	·		1		
		28"	3	8.0-11	- same	
				4	(LACUSTRINE SILT AND CLAY)	
10				4		
	0			1		11.0 '
	-	-			Boring terminated at 11.0 ft. bgs	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-13

Page 1 of 1

Project:	Voluntary Investigation	Drill Contract	tor: Nothnagle	Start Date:	8/8/2002
Project #:	16059	Driller:	N. Short	Completion Date:	8/8/2002
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Clear, 70s	Supervisor:	P.Smith

0 PID		S	AMPLE		Soil Information			
0	PID	Rec.	No.	Depth	Remarks			
\neg		36"	1	0-4	Gray coarse to fine Sand and Gravel, dry (asphalt surface, gravel base)			
]				
Ļ				1	(FILL)	_		
-	0			1	Described Constitution	2.0		
				_	Brown silty fine Sand, moist			
ŀ					- same, except black from 3 to 3.8 ft.			
ŀ	15			1	came, except black from a to e.e. it.			
Ì		36"	2	4.0-7.0	Gray brown silty fine SAND, wet			
5	0							
-				_	(LACUSTRINE SAND)			
-	0			-				
ŀ	U	36"	3	7.0-10.0	- same			
\dashv		30		17.0-10.0	- Same			
ı								
Ì				1				
10	0					10.		
-				_	Boring terminated at 10.0 ft. bgs			
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-14

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Project:	Voluntary Investigation	Drill Contractor:	Nothnagle	Start Date:	8/8/2002
Project #:	16059	Driller: N.	Short	Completion Date:	8/8/2002
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Cle	ear, 70s	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth		
		24"	1	0-4 '	Gray coarse to fine Sand and Gravel, dry (asphalt surface, gravel base) (FILL)	1.7 '
:	0				Brown silty fine Sand, moist	
	0	4"	2	4-7'	same, except wet	
5					(LACUSTRINE SAND)	
					(LACUSTRINE SAND)	
	0	36"	3	7-10 '	same, except gray	
	U					:
10	0		-		Refusal @ 10'	10.0 '
					Trefusal @ 10	
15						
				-		
20				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-15

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Project:	Voluntary Investigation	Drill Contractor: Nothnagle	Start Date:	8/9/2002
Project #:	16059	Driller: N. Short	Completion Date:	8/9/2002
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-16

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Project:	Voluntary Investigation	Drill Contractor: Nothnagle	Start Date:	8/9/2002
Project #:	16059	Driller: N. Short	Completion Date:	8/9/2002
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
		18"	1	0-4	Concrete	0.5 '
					Gray coarse to fine SAND and moist Gravel, mild odor	
					/FU L \	
	2.5			-	(FILL)	3.3 '
	2.5			-		3.3
	3.1			1	Red brown clayey SILT, trace roots	
	<u> </u>	36"	2	4-7'	(Relict Topsoil)	
5				1	, , ,	5.2 '
					Brown to black silty fine SAND, wet, strong odor, iridescent sheen, trace free product	
	3.1				(LACUSTRINE SAND)	
						7.0 '
	2.5	24"	3	7-9 '	Bod brown silts Clay do to majot	
	2.5				Red brown silty Clay, dry to moist (LACUSTRINE SILT and CLAY)	Ī
	2.5			1	(LACOSTRINE SILT AND CEAT)	9.0 '
	2.0				Boring terminated at 9.0 ft. bgs	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-17

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Project:	Voluntary Investigation	Drill Contractor	: Nothnagle	Start Date:	8/9/2002
Project #:	16059	Driller: N.	Short	Completion Date:	8/9/2002
Client:	Buell Automatics	Elevation:	- 10	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Int	erior	Supervisor:	P.Smith

Γ		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
T		36"	1	0-4 '	Concrete	0.9
]		
L				1	Gray brown fine SAND; silt, sand and gravel layers;	
L	10.8			_	strong odor, trace oily product, moist	
+				4	(511.1)	
┝				4	(FILL)	3.
H	12.7			┨	Gray brown SILT, some fine Sand, moist	
H	12.1	36"	2	4-7'	Gray SAND, wet, strong odor	
5 5	18.4			1 ' '	(LACUSTRINE SAND)	5.
+		-		1	Red brown clayey SILT, with oily product in cracks	
r				1		
┢				7	(LACUSTRINE SILT and CLAY)	
	14.6			1		
$oldsymbol{\mathbb{L}}$		24"	3	7-9'	Red brown clayey SILT, moist	
L	"					
L				4		
L	3.1					9.
\bot				4	Boring terminated at 9.0 ft. bgs	
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r				1		
٥t				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-18

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Project:	Voluntary Investigation	Drill Contractor: Nothnagle	Start Date:	8/8/2002
Project #:	16059	Driller: N. Short	Completion Date:	8/8/2002
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Supervisor:	P.Smith

- 1		SA	MPLE		Soil Information	
ol	PID	Rec.	No.	Depth	Remarks	
		6"	1	0-4	Gray coarse to fine Sand and Gravel, dry (asphalt surface, gravel base)	
				1	(511.1)	
				1	(FILL)	
			•	1		3.5
l	4.1				Black, silty fine SAND, moist	4.0
5	104	36"	2	4-7'	Gray SAND, moist, strong odor	5.0
コ	$\overline{}$			1	Red Brown CLAY, moist	5.8
ı				1	Gray SAND, wet, strong odor and iridescent sheen	
	20				(LACUSTRINE SAND)	
	23		3	7-10 '	- poor recovery, sleeve destroyed	
			-	1		
				1		9.
10	0			-	Red brown clayey SILT, moist (LACUSTRINE SILT and CLAY)	10.
					Boring terminated at 10.0 ft. bgs	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-19

Page 1 of 1

Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/5/03
Project #:	16059	Driller: R. Rose	Completion Date:	5/5/03
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
		30"	1	0-4	Concrete	0.5
;				1	Brown and gray Sand and Gravel, some silt, moist	•
]	(FILL)	2.0
]	Dark gray Silt, some fine sand, strong odor, moist to wet	
	<u> </u>					
				_		
	20.4	48"	2	4-8'	Crow allty fine Sand, wat irideseent shoon	
5		48		4-8	Gray silty fine Sand, wet, iridescent sheen	
	 -		•	1		
				1	(LACUSTRINE SAND)	
	1.3			1		
				1		
						7.2
]	Red Brown clayey Silt, moist	
	3.1					
		26"	3	8-10.2	-same	
				_		
10				_	(LACUSTRINE SILT AND CLAY)	40.0
	1.3				Desire territoria del 40 0 ft less	10.2
	ļ			1	Boring terminated at 10.2 ft. bgs	
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	ļ			1		
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	<u> </u>			1		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-20

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/5/03
Project #:	16059	Driller: R. Rose	Completion Date:	5/5/03
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID		No.	Depth	Remarks	
		30"	1	0-4	Concrete	0.5 '
]	Gray brown Sand and Gravel, moist	
]		
				1	(FILL)	2.3 '
				1	Dark gray silty fine Sand, moist; strong odor, free product (oil)	
				1		
	7.7			1		
	' . '	48"	2	4-8	- same, with iridescent sheen, wet	
5		70		┨▔˘	Same, war indesectit street, wet	
				İ		
			-	1		
	0.4]	(LACUSTRINE SAND)	
]	/	
				1		7.5 '
	7.2	0.48		0.401	Red brown silty Clay, trace gravel, occasional sand seam	
		24"	2	8-10 '		
	<u> </u>			-	- same, except smeared with product (LACUSTRINE SILT AND CLAY)	
10	3.6			1	- Same, except sineared with product (EAGOOTHINE SIET AND SEAT)	10.0
					Boring terminated at 10.0 ft. bgs	
				1		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-21

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/3/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/3/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
		36"	1	0-4 '	Concrete	0.5
					Gray brown to black Silt, Sand and Gravel (FILL)	1.2
	0.4]	Black, moist tar-like seam, strong odor from 1.2 to 1.5 ft.	1.5
				1		
				-	Dark gray silty fine SAND, moist to wet	
				-		
	0.9			1	(LACUSTRINE SAND)	
		36"	2	4-8 '	- same with iridescent sheen from 4.5-5 ft.	
5	2.7]		5.
				_	D. d.l. a. a. O'll an area also admits area into	
		· -		-{	Red brown Silt, some clay, dry to moist	
				1		
				1	(LACUSTRINE SILT and CLAY)	
	0.4					8.
			-		Boring terminated at 8.0 ft. bgs	
				_		
10				4		
10	_			-		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-22

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Project:	Voluntary Investigation	Drill Contra	ctor: SLC	Start Date:	5/5/2003
Project #:	16059	Driller:	R. Rose	Completion Date:	5/5/2003
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Rain/high Wind	Supervisor:	P.Smith

		SA	MPLE		Soil Information	<u> </u>
0	PID	Rec.	No.	Depth		
	· ·-	18"	1	0-4	Asphalt surface	0.5
]		
]	Gray brown silty fine Sand, moist (poor recovery)	
				ł		
				1		
	1.3				(LACUSTRINE SAND)	
		48"	2	4-8 '	- same, except wet	
5]		
	1.0					
	1.3			ł	- same with sheen from 5.8 to 6.0 ft.	6.0 '
				-	Red brown Clay, some silt, moist; stiff	-
				1	(LACUSTRINE SILT and CLAY)	
	0.9				,	8.0 '
					Boring terminated at 8.0 ft. bgs	
				1		
40				-		
10			-	1		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



2250 Brigton Henrietta Town Line Road Rochester, NY 14623

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Test Boring No. B-23

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Project:	Voluntary Investigation	Drill Contract	ctor: SLC	Start Date:	5/5/03
Project #:	16059	Driller:	R. Rose	Completion Date:	5/5/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Rain/high winds	Supervisor:	P.Smith

Ę	SAMPLE PID Rec. No. Depth		т	Soil Information	·	
0 F	וי	Rec.	No.	Depth		
_	_		1	0-4 '	Asphalt surface	0.5
\vdash	+			1		
1	60			1	Dark gray silty fine Sand, moist; strong odor	
\bot						
H,	53			-	(LACUSTRINE SAND) - same, except wet with iridescent sheen	3.
	09			1	Red brown clayey Silt, moist, stiff	<u> </u>
F			2	4-8 '		
5]		
]		
-				4		
\vdash	+			4		
\vdash				1	- same with trace gravel (LACUSTRINE SILT and CLAY)	
	28			1		8
					Boring terminated at 8.0 ft. bgs	
\vdash				4		
ol				-		
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	•			1		
\vdash				4		
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\vdash				1		
				1		
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20				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-24

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Project:	Voluntary Investigation	Drill Contrac	ctor: SLC	Start Date:	5/5/03
Project #:	16059	Driller:	R. Rose	Completion Date:	5/5/03
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P.Smith

SAMPLE			Soil Information					
0	PID	Rec.	No.	Depth	Remarks			
			1	0-2 '	Concrete	0.5		
				4				
	- 1			4	Gray brown silty fine Sand, moist			
	5.4		2	2-4 '	(LACUSTRINE SAND)			
		-		- 		3.0		
				-	Red brown silty Clay, moist			
	4.0		_	1		4.		
			3	4-6	Red brown Silt, some fine sand, trace clay, wet			
5								
	4.0			0.01				
			4	6-8 '	- same			
	<u> </u>			4	(LACUSTRINE SILT and CLAY)			
	1.8			1	(2,1000111112 0121 4114 02111)	8		
					Boring terminated at 8.0 ft. bgs			
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-25

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/3/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/3/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: interior	Supervisor:	P.Smith

- 1		SA	MPLE		Soil Information		
οľ	PID	Rec.	No.	Depth			
十	İ		1	0-2 '	Concrete surface	0.	
ı				1	Brown silty fine Sand, moist, concrete @ 1.5'		
Ī				1			
	85			1	(LACUSTRINE SAND)		
		NR	2	2-4 '	(No Recovery)		
L				1			
Ļ				4			
-				1 0 1		4.	
_ -			3	4-6 '	Gray brown Silt and Sand, trace clay, moist		
5				-			
-	1.3			1			
F	1.3		4	6-8 '	same, except wet		
-				1 ~~	Samo, except wet		
H				1	(LACUSTRINE SILT and CLAY)		
\dashv	0.9			1		8.	
ı					Boring terminated at 8.0 ft. bgs		
Г				1			
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-26

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/3/2002
Project #:	16059	Driller: R. Rose	Completion Date:	5/3/2002
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather:	Supervisor:	P.Smith

SAMPLE			Soil Information			
0	PID	Rec.	No.	Depth	Remarks	
			1	0-2 '	Concrete	0.5
]	Brown SILT, some fine Sand, trace Clay, moist	
					black asphalt(?) 1.8-2'	
	600				(FILL)	
-	404		2	2-4 '	One CILT come fire Cond trace Clay point moderate adapt	2.5
-	101			ł	Gray SILT, some fine Sand, trace Clay, moist, moderate odor,	3.0
	60			-		3.0
-	-00		3	4-6'] Gray brown, wet Silty fine SAND, trace Clay	
5					loray brown, wet only fine ozity, trace oray	
ᅱ				1	(LACUSTRINE SAND)	
ŀ	16.8			1	(2.1300111112)	
ŀ			4	6-8 '	same	
ı				1		
]		
	12.2					8.0
[Boring terminated at 8.0 ft. bgs	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-27

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/3/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/3/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

		64	MPLE		Soil Information	1
0	PID		No.	Depth	Remarks	
		28"	1	0-4	Concrete	0.5 '
				1		
		_]	Gray silty fine Sand, trace clay, moist to wet; strong odor	
]		
		,				
					(LACHETRINE CAND)	
	4.0			{	(LACUSTRINE SAND)	
	4.0		2	4-8 '	- same	1
5			<u>-</u>	1 ' "	Camb	
				1		5.5 '
			-]	iridescent sheen from 5.5 to 7 ft.	
	1.3]		
						7.0 '
	1	40!		-	dark brown Silt from 7 to 8 ft.	
	3.1	48"	3	8-12 '	- same, except moist to wet	8.0 '
			3	0-12	- Same, except moist to wet	
					(LACUSTRINE SAND)	
10	0.9			1	, , , , , , , , , , , , , , , , , , ,	
]		
						11.2 '
				1	Red brown Silt, some clay, moist (LACUSTRINE SILT and CLAY)	
	0.4				5	12.0 '
				ļ	Boring terminated at 12.0 ft. bgs	
	-			ł		
				-		
				1		
15				1		
	<u></u>					
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				4		
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				1		
				1		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/3/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/3/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
		30"	1	0-4	Concrete	0.4 '
				_	Dark gray Silt, some find sand, trace clay, moist; mild odor	
				1		İ
				1		
]		
	0.9			<u> </u>		4.0 '
		48"	2	4-8'	Red brown SILT, some clay, moist	
5						
				₫	(LACUSTRINE SILT and CLAY)	
				4		
	1.3			4	10 III 6 04410	6.5 '
				4	Gray silty fine SAND, wet, trace sheen (free product?) @ 6.5 ft., strong odor	
				-		
		48"	3	8-12'	- same (possible slough)	
		40	<u> </u>	0-12	(LACUSTRINE SAND)	
				1	(EAGGSTRINE SAND)	
10	0.9			1		
	0.0			1		
				1		
				1		11.5 '
	1.8		<u> </u>	1	Red brown silty CLAY, moist (LACUSTRINE SILT and CLAY)	·
		-		1		12.0 '
				1	Boring terminated at 12.0 ft. bgs	
				1		
		-		1		
15						
			ļ			
			ļ	1		
			ļ	1		
			ļ	4		
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/3/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/3/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
		36"	1	0-4'	concrete	0.5
					Dark gray SILT, some fine sand, moist, wet	Ì
					(LACHETRINE CAND)	
				-	(LACUSTRINE SAND)	
				ł		3.5 '
	8.6			1	Iridescent sheen @ 3.5-4', strong odor	4.0
	0.0	48"	2	4-8'	Gray brown silty fine SAND, wet	
5					(LACUSTRINE SAND)	5.0
					same, with iridescent sheen from 5.0-6.5'	
	1.8]		
				1		6.5 '
			<u>-</u>	4	same, without sheen	7.5 '
	0.4			-	Red brown silty CLAY, moist (LACUSTRINE SILT and CLAY)	7.5
	0.4			-	(LACOSTRINE SILT and CLAT)	8.0
				-	Boring terminated at 8.0 ft. bgs	
				1	Bonning termination at 0.0 1t. bgb	
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



2250 Brigton Henrietta Town Line Road Rochester, NY 14623

(585) 475-1440

Test Boring No. B-30

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Project:	Voluntary Investigation	Drill Contra	ctor: SLC	Start Date:	5/3/2003	
Project #:	16059	Driller:	R. Rose	Completion Date:	5/3/2003	
Client:	Buell Automatics	Elevation:		Drilling Method:	Geoprobe	
Location:	381 Buell Road	Weather:	Interior	Supervisor:	P.Smith	

ſ		SA	MPLE		Soil Information	
_0	PID	Rec.	No.	Depth	Remarks	
		36"	1	0-4'	Concrete	0.5 '
					Gray SAND, some gravel, silt, some black aslphalt looking material, moist	
						ļ
		-				201
					Crow all of the CAND majet	3.0 '
	1.3				Gray silty fine SAND, moist (LACUSTRINE SAND)	
	1.3		2	4-8'	same as above, except dark gray, wet, mild odor	
5	0.9			~~	Same as above, except dark gray, wet, filled oder	4.8 '
-	0.0		-			
				1		
		-]	Red brown CLAY, trace Gravel, moist (trace product - oil)	
	2.2				(LACUSTRINE SILT and CLAY)	
			3	8-12'		
		_			same, except hard	
40	-			-		
10						
				{		
				1		
	0.4			1		12.0 '
					Boring terminated at 12.0 ft. bgs	
		-		1		
]		
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				1		- 1
15				4		
				4		
				1		
				1		
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				1		1
				1		1
				1		
20				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-31

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/5/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/5/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

Γ	•	54	MPLE		Soil Information
ol	PID	Rec.	No.	Depth	Remarks
			1		Concrete 0.5
					Black coarse to fine Sand and Gravel, moist
-				ĺ	/FILL)
-	0.9			1	(FILL)
-	0.5			1	Red brown silty Clay, moist
ŀ					
			2	4-8'	- same
5				ļ	(1.4.0.1.0
-					(LACUSTRINE SILT and CLAY)
}	2.2			1	
ŀ					
				1	
	0.9				8.0
-]	Boring terminated at 8.0 ft. bgs
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^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-32

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/5/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/5/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

PiD Rec. No. Depth Remarks	ſ		SA	MPLE		Soil Information	
30" 1 0-4' Concrete Gray Sand and gravel, moist (FILL) 2.5'	o	PID			Depth		
Company Comp							0.5 '
Dark gray silty fine SAND, moist to wet, strong petroleum odor (LACUSTRINE SAND) 8.1]	Gray Sand and gravel, moist	
Dark gray silty fine SAND, moist to wet, strong petroleum odor (LACUSTRINE SAND) 8.1]		
Dark gray silty fine SAND, moist to wet, strong petroleum odor (LACUSTRINE SAND) 4.5 Red brown silty CLAY, moist 8.1 Dark gray silty fine SAND, wet, strong odor 4.0 24" 3 8-12" Brown silty fine SAND, no odor (LACUSTRINE SAND) 6.5' 0.9 4 12-15' Same, except very dense, moist 15 0.9 Boring terminated at 15.0 ft. bgs	ļ					(FILL)	ا م
9.9							2.5
9.9					1	Dark gray silty fine SAND, moist to wet, strong petroleum odor	
48" 2 4-8'		9.9			1		
(LACUSTRINE SILT and CLAY) 8.1 Dark gray silty fine SAND, wet, strong odor 4.0 24" 3 8-12' Brown silty fine SAND, no odor (LACUSTRINE SAND) 10 0.9 4 12-15' same, except very dense, moist 15 0.9 Boring terminated at 15.0 ft. bgs		0.0	48"	2	4-8'	(4.5 '
8.1	5]	Red brown silty CLAY, moist	
Dark gray silty fine SAND, wet, strong odor 4.0 24" 3 8-12' Brown silty fine SAND, no odor (LACUSTRINE SAND) 10 0.9 4 12-15' same, except very dense, moist 15 0.9 Boring terminated at 15.0 ft. bgs]	(LACUSTRINE SILT and CLAY)	İ
Dark gray silty fine SAND, wet, strong odor 4.0 24" 3 8-12' Brown silty fine SAND, no odor (LACUSTRINE SAND) 10 0.9 4 12-15' same, except very dense, moist 15 0.9 Boring terminated at 15.0 ft. bgs							
4.0		8.1			ł	Dark gray silly fine SAND wat strong oder	6.5
10			-		ł	Dark gray silty line SAND, wet, strong oddi	
10		4.0			1		
15 0.9 Boring terminated at 15.0 ft. bgs			24"	3	8-12'	Brown silty fine SAND, no odor	1
15 0.9 Boring terminated at 15.0 ft. bgs]		
0.9						(LACUSTRINE SAND)	
15 0.9 Boring terminated at 15.0 ft. bgs	10						
15 0.9 Boring terminated at 15.0 ft. bgs					1		
15 0.9 Boring terminated at 15.0 ft. bgs				-	1		
15 0.9 Boring terminated at 15.0 ft. bgs		0.9			1		
Boring terminated at 15.0 ft. bgs				4	12-15'	same, except very dense, moist	
Boring terminated at 15.0 ft. bgs							
Boring terminated at 15.0 ft. bgs					1		i
Boring terminated at 15.0 ft. bgs					4		
Boring terminated at 15.0 ft. bgs	15	Λa			-		15.0 '
		0.5				Boring terminated at 15.0 ft, bgs	
20					-	Borning torrismation at 10.0 It. ago	
20	,						
20]		
20					1		j
20					4		
20					-		
20					1		
	20				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-33

Page 1 of 1

Project: Voluntary Investigation Drill Contractor: SLC Start Date: 5/5/2003 16059 R. Rose Completion Date: 5/5/2003 Driller: Project #: Client: **Buell Automatics** Elevation: Drilling Method: Geoprobe P.Smith 381 Buell Road Supervisor: Location: Weather: Interior

		SA	MPLE		Soil Information	
0	PID		No.	Depth	Remarks	
		24"	1	0-4'	Concrete	0.5 '
]	Red brown Silt, some fine sand, little clay, moist	
]		
	1.9					
					(LACUSTRINE SILT and CLAY)	
	1.3	-		1	Dark gray @ 3.5'	4.0'
	1.3	48"	2	4-8'	Brown silty fine Sand, wet	4.0
5		1,10		' ັ	Brown only line build, wot	
				1	(LACUSTRINE SAND)	ļ
				1	, '	Ì
	0.9]		
]		
	0.9			0.44.51		
			3	8-11.5°	same, with trace clay	
	-	<u> </u>		4		
				1		
10	0.9		<u> </u>	1		
				1		
					same, except red brown, no clay	ļ
	0.9					11.5'
					Boring terminated at 11.5 ft. bgs	
			ļ. <u>.</u>			
	-		 	_		
	-	<u> </u>		1		
	 -			1		
15			<u> </u>	1		
		<u> </u>		1		
				1		
		ļ		1		
				4	·	
		ļ	ļ	-		
		 		1		
20	<u> </u>	 		1		
20	1	1	l	L	l	

Notes:

1. PID Thermo Env Model 580 B with 11.8 eV lamp.



Test Boring No. B-34

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Project:	Voluntary Investigation	Drill Contractor: SLC	Start Date:	5/5/2003
Project #:	16059	Driller: R. Rose	Completion Date:	5/5/2003
Client:	Buell Automatics	Elevation:	Drilling Method:	Geoprobe
Location:	381 Buell Road	Weather: Interior	Supervisor:	P.Smith

1		SA	MPLE		Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
<u> </u>		36"	1	0-4'	Concrete	0.5 '
				1	Dark gray Silt, moist, strong petroleum odor	
]		
	4.5]		
					Gray brown Silt, some fine sand, trace clay, moist	
				_	(1.4.0.10.TD)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	2.2	40"		4.01	(LACUSTRINE SILT and CLAY)]
=		48"	2	4-8'		
5				-		
				1		6.0'
		-		1	Brown silty fine Sand, moist; top/bottom stained dark gray; sheen	- 0.0
,	1.3			1	(LACUSTRINE SAND)	7.0 '
				1		
	1.8			1	Red brown Clay, some silt, moist; stiff	8.0 '
					Boring terminated at 8.0 ft. bgs	
				1		
10			-			
				1		
				4		
	<u> </u>			4		
				-		
				┨		
	 			1		
	 			1		ì
				1		
15				1		
				1		
				1		
	<u></u>			4		
	 -			4		
	<u> </u>			4		
				-		
				1		
20				1		

^{1.} PID Thermo Env Model 580 B with 11.8 eV lamp.



2250 Brighton Henrietta Town Line Road

Rochester, NY 14623

(585) 475-1440

Test Boring No.: B-35

Page 1 of 1

Project:	Remedial Investigation	Drill Contractor:	Nothnagle	Start Date:	9/20/2005
Project #:	16059	Driller:	N. Short	Completion Date:	9/20/2005
Client:	Buell Automatics	Elevation:		Drilling Method:	Direct-push
Location:	Rochester, NY	Weather:		Supervisor:	P. Smith

ſ		SAM	PLE		Soil Information
0	PID	Rec.	No.	Depth	Remarks
		24"	1	0-4'	Concrete surface
ľ					(FILL)
1					
Ì					2.0
	405				Brown fine Sandy SILT, moist
					(LACUSTRINE SAND)
	115			l	
		36"	2	4-8'	Same, except wet 5.0
5					Red brown SILT, some fine Sand and Clay, moist
[37				(LACUSTRINE SILT and CLAY)
[
[}	
]	
	17.5				8.0
					Boring terminated at 8.0 ft. bgs.
				1	
]	
10					
]	
				1	
15]	
]	
]	
]	
				1	
				1	
]	Note:
]	1. Boring backfilled with bentonite chips at completion.
				1	
				1	
20		1		1	



Test Boring No.:

B-36

Page 1 of 1

Project: Remedial Investigation Drill Contractor: Nothnagle Start Date: 9/20/2005 Project #: 16059 Driller: N. Short Completion Date: 9/20/2005 **Buell Automatics** Client: Elevation: Drilling Method: Direct-push Rochester, NY Weather: Supervisor: P. Smith Location:

		SAM	PLE		Soil Information
0	PID	Rec.	No.	Depth	Remarks
Ļ		30"	1	0-4'	Concrete surface
					Const. CANID. compa Cité forces Constat maniet
ļ					Gray SAND, some Silt, trace Gravel, moist
ŀ					(FILL)
	8.5				3.0'
ľ					Red brown, SILT, some Clay, trace Gravel, wet
Ī	29				
		36"	2	4-8'	same, except stiff, moist
5					
ļ		İ			
	37				(I A CHICTDINE OIL T a set OL AV)
		 			(LACUSTRINE SILT and CLAY)
ŀ					
	125				
ŀ		24"	3	8-10	same
İ					
Ì					
10	35				10.0'
					Boring terminated at 10.0 ft. bgs.
1					
}					
ŀ				1	
ŀ				1	
ļ		_		1	
15				1	
,		ļ			
					Notes
		1			Note: 1. Reging backfilled with bontonite chips at completion
		-			1. Boring backfilled with bentonite chips at completion.
}		 		1	
20		<u> </u>		1	



Test Boring No.:

B-37

Page 1 of 1

Start Date: 9/20/2005 Project: Remedial Investigation Drill Contractor: Nothnagle 9/20/2005 Project #: 16059 Driller: N. Short Completion Date: Client: **Buell Automatics** Drilling Method: Direct-push Elevation: Rochester, NY Weather: Supervisor: P. Smith Location:

		SAM	PLE		Soil Information
0	PID	Rec.	No.	Depth	Remarks
			1	0-4'	Asphalt surface
-					Gray brown, SILT, Sand and Gravel, moist
ŀ	0.0		-	-	(FILL)
				1	3.3
ŀ				1	Dark gray, SILT, some fine Sand, moist
	4.5			1	
l			2	4-8'	Gray brown, Silty fine SAND, wet
5					
ļ					(LACUSTRINE SAND)
	_			1	6.
				4	Red brown, SILT, some fine Sand and Clay, moist
				-	(LACUSTRINE SILT and CLAY)
	4.1			1	(EAGOSTRINE SIET AND GEAT) 8.
					Boring terminated at 8.0 ft. bgs.
				1	
				1	
10					
	-			1	
				1	
				4	
			<u> </u>	4	
				1	
			1	†	
			-	1	
			1	1	
15					
]	
				4	
				4	
				1	Note:
				†	1. Boring backfilled with bentonite chips at completion.
		 	 	1	
				1	
20				1	



Test Boring No.:

B-38

Page 1 of 1

Start Date: 9/20/2005 Project: Remedial Investigation Drill Contractor: Nothnagle Project #: 16059 Driller: N. Short Completion Date: 9/20/2005 Client: **Buell Automatics** Elevation: Drilling Method: Direct-push Supervisor: Rochester, NY Weather: P. Smith Location:

[SAM	PLE		Soil Information
_ 0 _	PID	Rec.	No.	Depth	Remarks
		36"	1	0-4	Asphalt surface
ļ					Gray, coarse to fine Sand and Gravel, dry
ļ					(FILL)
1		ļ			1.9
		ļ		1	Red brown, SILT, some Sand and Clay, moist
				ļ	3.0 sand lense 3-3.5 ft. bgs 3.5
	0.0	ļ			sand lense 3-3.5 ft. bgs 3.5
	0.0				
_		24"	2	4-6'	Red brown, SILT, some Sand and Clay, moist
5				_	// A G / A G
					(LACUSTRINE SILT and CLAY)
	0.0				6.0
				1	Boring terminated at 6.0 ft. bgs.
		 		4	
		ļ		4	
				1	
ļ				1	
		ļ		4	
4.0		<u> </u>		4	
10		.		4	
			-	4	
		-		-	
		ļ		4	
				-	
				<u> </u>	
			 	4	
				1	
				4	
4.5		 		-	
15				-	
		·		4	
				-	
				-{	
		 		-	
		 		1	Notes
		 	ļ	1	Note:
		ļ	-	-	Boring backfilled with bentonite chips at completion.
			ļ	1	
20			 	-	
20				1	



2250 Brighton Henrietta Town Line Road Rochester, NY 14623

Test Boring No.: B-39

(585) 475-1440

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Project:	Remedial Investigation	Drill Contractor:	Nothnagle	Start Date:	9/20/2005
Project #:	16059	 Driller:	N. Short	Completion Date:	9/20/2005
Client:	Buell Automatics	Elevation:		Drilling Method:	Direct-push
Location:	Rochester, NY	Weather:		Supervisor:	P. Smith

[SAMPLE			Soil Information	
0	PID	Rec.	No.	Depth	Remarks
			1	0-4'	Asphalt surface
					Gray, coarse to fine SAND and Gravel, moist
,					(FILL)
					2.
		_			Gray, silty fine SAND, wet
- 1	30.5				(LACUSTRINE SAND)
	22.8			4.01	
اء			2	4-8'	Same, except gray brown
5					5.
-					Red brown, SILT, some Clay and fine Sand, moist
}					
	12.0				(LACHSTRINE SILT and SLAV)
ŀ	13.8				(LACUSTRINE SILT and CLAY)
-					8.
}					Boring terminated at 8.0 ft. bgs.
-					boring terminated at 6.0 it. bgs.
ŀ					
10				1	
-10				-	
}					
- }					
				İ	
				1	
				1	
15				1	
				1	
ľ				1	
				1	
				1	
				1	Note:
				1	1. Boring backfilled with bentonite chips at completion.
				1	
ľ					
20					



2250 Brighton Henrietta Town Line Road Rochester, NY 14623

Test Boring No.: B-40

(585) 475-1440

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Project:	Remedial Investigation	Drill Contractor:	Nothnagle	Start Date:	9/20/2005
Project #:	16059	Driller:	N. Short	Completion Date:	9/20/2005
Client:	Buell Automatics	Elevation:		Drilling Method:	Direct-push
Location:	Rochester, NY	Weather:		Supervisor:	P. Smith

[SAMPLE			Soil Information		
0	PID	Rec.	No.	Depth		
			1	0-4'	Concrete surface	
					Gray brown, coarse to fine SAND and Gravel, some Silt, moist	
					(FILL)	
ł	9.4				Gray brown silty fine SAND, wet	
	9.4				I Gray brown sitty line SAND, wet	
					(NATIVE)	
	7.8				()	
			2	4-8'	same	
5					5.	
					Red brown clayey SILT, moist	
[
						
	50.1				(LACUSTRINE SILT and CLAY)	
	22.3				0	
	22.3				Position to provide a to 4 to 5 to 5 to 5 to 5 to 5 to 5 to 5	
					Boring terminated @ 8.0 ft. bgs.	
10						
4.5						
15						
	-					
						
\neg					Note:	
	· · · · · · · · · · · · · · · · · · ·	-			1. Boring backfilled with bentonite chips at completion.	
20						



2250 Brighton Henrietta Town Line Road Rochester, NY 14623

Test Boring No.:

B-41

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(585) 475-1440

Weather:

Start Date:

9/20/2005

Project #: Client: Location:

Project:

Remedial Investigation Drill Contractor: 16059 Driller: **Buell Automatics** Elevation:

Rochester, NY

Nothnagle N. Short Completion Date: Drilling Method: Supervisor:

9/20/2005 Direct-push P. Smith

	SAMPLE				Soil Information
0	0 PID Rec. No. Depth			Depth	Remarks
		48"	1	0-4'	Asphalt surface
			·]	Gray brown, coarse to fine SAND and Gravel, some Silt, moist
]	(FILL) 1.9'
	2.3				Brown, silty fine SAND, moist (LACUSTRINE SAND) 2.3'
					Red brown, silty CLAY, moist
]	
	_				(LACUSTRINE SILT and CLAY)
	9.3				
		24"	2	4-8'	same
5				}	
]	
]	
]	
	5.8				8.0'
					Boring terminated at 8.0 ft. bgs.
]	
10					
]	
]	
]	
15]	
]	
]	Note:
]	1. Boring backfilled with bentonite chips at completion.
			T .]	
				1	
20				1	



2250 Brighton Henrietta Town Line Road Rochester, NY 14623

(585) 475-1440

Test Boring No.: B-42

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Remedial Investigation **Drill Contractor:** Nothnagle Start Date: 9/20/2005 Project: 16059 N. Short Completion Date: 9/20/2005 Project #: Driller: Drilling Method: Direct-push Client: **Buell Automatics** Elevation: Rochester, NY Weather: Supervisor: P. Smith Location:

1	SAMPLE			Soil Information	
0	PID	Rec.	No.	Depth	Remarks
		48	1	0-4'	asphalt surface, gray sand and gravel base, dry
					(FILL)
	8.6				2.
					Red brown clayey SILT, moist
		-			(LACUSTRINE SILT and CLAY) 3.
	7.6				sand seam from 3.5 to 4.0 ft. bgs
	7.0	36	2	4-8'	Red brown clayey SILT, moist
5		- 00		, ,	Took brown didyby one 1, motor
\dashv	-			İ	
,				1	
				1	
	24.4				7.
					Red brown silty fine SAND, wet
	93.1				(LACUSTRINE SAND) 8.
					Boring terminated at 8.0 ft. bgs.
]	
]	
10					
				ļ	
				1	
				-	
				-	
,				-	
		<u> </u>		1	
					
15				1	
				1	
				1	
				1	
				1	
				1	
]	Note:
		L]	Boring backfilled with bentonite chips at completion.
]	
]	
20					



Project #:

Location:

Client:

16059

Buell Automatics

Rochester, NY

2250 Brighton Henrietta Town Line Road Rochester, NY 14623

N. Short

Test Boring No.:

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B-43

(585) 475-1440 Project: Remedial Investigation

Drill Contractor: Driller: Elevation:

Weather:

Nothnagle Start Date: Completion Date: Drilling Method:

Supervisor:

9/20/2005 9/20/2005 Direct-push P. Smith

Г	SAMPLE			Soil Information				
0	PID	Rec.	No.	Depth	Remarks			
<u> </u>			1	0-4'	Gray sand and gravel, dry			
Ī								
					(FILL)			
,					2.0'			
	2.4				Gray brown silty fine SAND, wet (LAUCSTRINE SAND)			
	2.4				(LAUCSTRINE SAND)			
ŀ	8.8							
İ			2	4-8'	same			
5								
					0.51			
			 		Red brown clayey SILT, moist			
					(LACUSTRINE SILT and CLAY)			
	35.5		<u> </u>	1	8.0'			
	-			-	Boring terminated at 8.0 ft. bgs.			
10		ļ		Ì				
				1				
				}				
				1				
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				j				
]				
4.5		ļ						
15		-		+				
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]				
				1	Note:			
				1	Boring backfilled with bentonite chips at completion.			
		ļ	ļ	1				
20				1				
20		1						



2250 Brighton Henrietta Town Line Road Rochester, NY 14623 (585) 475-1440

Test Boring No.:

B-44

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Drill Contractor: Nothnagle Start Date: 9/20/2005 Project: Remedial Investigation N. Short Completion Date: 9/20/2005 Project #: 16059 Driller: Drilling Method: Client: **Buell Automatics** Elevation: Direct-push Rochester, NY Weather: Supervisor: P. Smith Location:

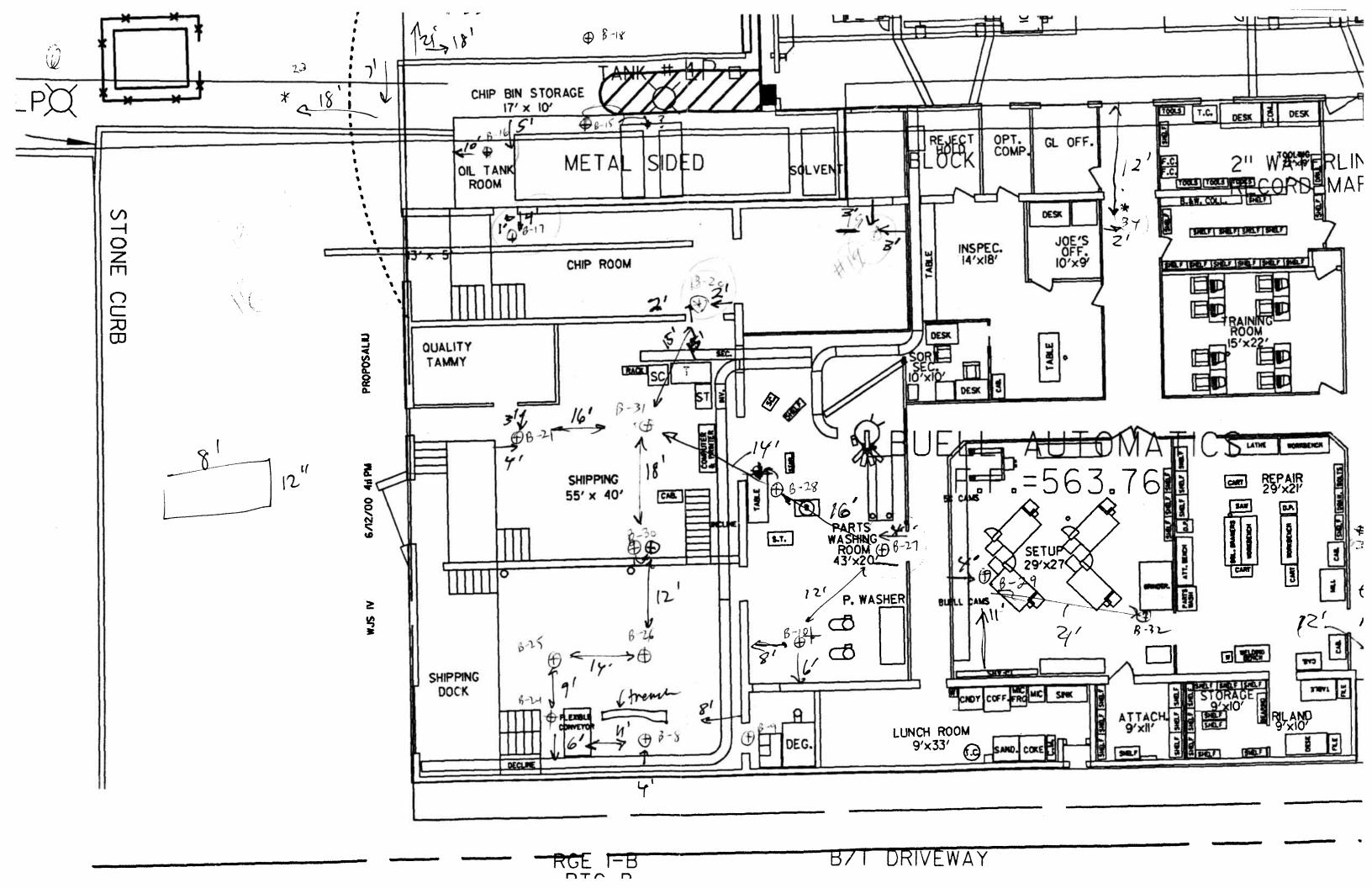
	SAMPLE			Soil Information				
0	PID	Rec.	No.	Depth	Remarks			
		24"	1	0-4'	Gravel surface Gray brown, coarse to fine SAND and Gravel, some Silt, moist (FILL)	2.0'		
Ì				<u> </u>	Gray brown fine SAND, some Silt, wet	\neg		
	· · · · · · · · · · · · · · · · · · ·				(LACUSTRINE SAND)			
5	0.0	36"	2	4-8'		5.0		
					Red brown, SILT, some Clay and fine Sand, moist			
					(LACUSTRINE SILT and CLAY)	ļ		
				-		ĺ		
-	0.8			1		8.0		
					Boring terminated at 8.0 ft. bgs.			
	-	<u> </u>				}		
10			-	-				
	<u></u>			1				
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		<u> </u>		1				
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15				1				
]		ļ		
			<u> </u>	1				
		 		1				
]				
]	Note:	- 1		
	<u></u>			-	Boring backfilled with bentonite chips at completion.			
		 		-				
20				1				

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix C

Swing-tie Measurements for Interior Boring Locations

(presented on the following page)



BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix D

Sub-Slab Soil Gas Survey Reports

August 22, 2006

Mr. Scott Dean 1166 Brooks Avenue Rochester, NY 14624

RE: Sub-Slab Soil Vapor Sampling Report

1166 Brooks Avenue Rochester, NY

Dear Mr. Dean:

On behalf of Buell Automatics, Inc. (Buell), Stantec Consulting Services Inc. (Stantec) is pleased to submit this Sub-Slab Soil Vapor Sampling Report for 1166 Brooks Avenue (Figure 1).

Building Inventory

A building walkthrough of 1166 Brooks Avenue was conducted on March 22, 2005 with representatives of the New York State Department of Environmental Conservation (DEC) and the New York State Department of Health (NYSDOH). Mr. Dick Wagner, General Manager for Marketing Squad, Inc. and David Shahin, Vice-President, provided access to areas of interest within the building. Mr. Wagner provided a copy of building floor plans prior to the walk through. The building plans are attached to the Building Inventory in Appendix A.

The 1166 Brooks Avenue building was constructed in two parts. The eastern half of the facility is slab-on-grade cinder block construction with a ducted, natural gas, forced air furnace. This half of the building is used for offices. The floor is carpeted, except for the utility room. A sump is located in a closet off the bathroom, adjacent to the utility room. The western half of the facility is cinder block construction with a raised floor; however, there is no access or crawl space. There is a large, open room on the west side of the facility, which is used as a call center. No central ducted HVAC system is present in the west room. Heating is provided by individual natural gas units suspended from the ceiling.

All cleaning products used in this facility are common commercially available products. A parts per billion (ppb) Rae photo-ionization detector (PID) was used to survey cleaning products for volatile organic vapors. No PID readings above background measurements were noted.

Based upon the knowledge that the building was constructed in two parts and had separate HVAC systems, it was requested by the DEC that Stantec collect sub-slab vapor and indoor air samples from both the east and west sides of the facility, in addition to a sump water sample.

Mr. Scott Dean August 21, 2006 Page 2

Sump Water Sampling

On March 23, 2006, one water quality sample was collected by Stantec from the sump in the utility closet at 1166 Brooks Avenue (see figure in Appendix A). Ms. Debby McNaughton (NYDOH) was present to observe the sampling. Water in the sump was evacuated prior to sampling by manually activating the sump pump. Sample BU-1166-SUMP was collected from the sump and forwarded with a blind field duplicate (BU-1166-DUP) to Columbia Analytical Services (CAS) for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8260.

Sub-Slab Soil Vapor Sampling

This soil gas survey was completed pursuant to the February 23, 2006 Work Plan for a Sub-Slab Soil Gas Survey at 1166 Brooks Avenue (the Work Plan) and comments provided by the DEC in a letter dated March 3, 2006.

Holes were drilled in two locations through the concrete floors in the gas utility room on the east side of the building and in a storage closet on the west side of the building on March 23, 2006 (see Appendix A). Following penetration of the floors, stainless steel implants and attached ¼-inch diameter teflon tubing were installed and sealed with non-shrinking hydraulic cement.

Debby McNaughton (NYSDOH) was present at the time of sampling. Prior to sampling, the tubing for the sub-slab samples was purged with the PID. Sub-slab sample BU-1166-SS-1 and indoor air sample BU-1166-IA-1 were co-located in the furnace room on the east side of the building. Sub-slab sample BU-1166-SS-2 and indoor air sample BU-1166-IA-2 were co-located in the storage room on the west side of the building. Background ambient air sample BU-1166-AMB was collected outside on the east side of the building. All samples were collected in 6-liter canisters over a period of approximately two hours and monitored with in-line gauges. Each summa canister had an initial vacuum reading between 26 and 30 inches of mercury (Hg).

All summa canister samples were submitted to CAS. Analysis was requested to be performed by USEPA Method TO-15 for the following site-specific VOCs: tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethane (1,1-DCA), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC).

Analytical Results

Copies of the laboratory analytical reports for the water and air samples collected from the 1166 Brooks Avenue building survey are presented in Appendix B.

Sump Water

No VOCs were reported to be present in the sump water at 1166 Brooks Avenue.

Indoor Air Sampling Results

Summaries of the laboratory analytical results for the sub-slab vapor, indoor air and outdoor air samples are presented in Tables 1, 2 and 3, respectively. Included in these tables are available NYSDOH, and USEPA guidance values.

Mr. Scott Dean August 21, 2006 Page 3

The sub-slab vapor samples collected at 1166 Brooks Avenue were reported to contain low-level, but detectable concentrations of four target VOCs: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and 1,1-dichloroethane (1,1-DCA). One compound, PCE, was reported from BU-1166-SS-1 on the east side of the building. Four compounds, PCE, TCE, cis-1,2-DCE and 1,1-DCA, were reported from BU-1166-SS-2 on the west side of the building. No compounds were reported above the method reporting limit for either of the two indoor, or one outdoor (ambient) air samples.

According to the NYSDOH Draft Guidance's "Soil Vapor / Indoor Air Matrices 1 and 2", the concentrations of PCE and TCE in the sub slab vapor samples, combined with the non-detect concentrations in indoor air samples, do not warrant any further action.

Should you have any questions or require further information, please call me at 413-5620, Mr. Frank Sowers, DEC, at 226-5357, or Ms. Debby McNaughton, NYSDOH, at 423-8069.

Sincerely,

Michael P. Storonsky Senior Associate

Attachments:

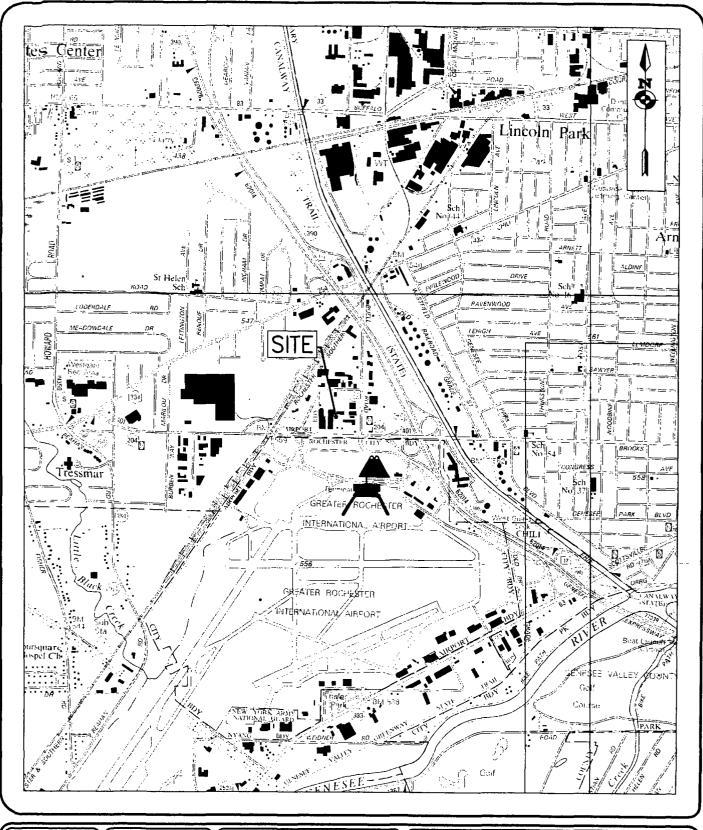
Figure 1 - Site Location Map

Table 1 - Summary of Sub-Slab Vapor Sampling Results
Table 2 - Summary of Indoor Air Quality Sampling Results
Table 3 - Summary of Outdoor Air Quality Sampling Results

Appendix A – Building Inventory Appendix B – Analytical Laboratory Reports

cc: Frank Sowers, P.E. (NYSDEC – Avon)
Debby McNaughton (NYSDOH - Rochester)
Richard Lawton (Buell Automatics)
Jerry Greenfield, Esq. (Chamberlain, D'Amanda, Oppenheimer & Greenfield)
File

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PROJECT ENGINEER/ARCHITECT
D. BELASKAS, P.E.
PROJECT MANAGER
M. STORONSKY

ORAWH BY
A. LESS

SCALE
1" = 2000'

FIRST ISSUE DATE

Stantec

STANTEC CONSULTING SERVICES INC. 2250 Brighton-Henrietta Town Line Road Rochester. N Y 1-4623-2706 Telf (585) 475-1440 Fax: (585) 272-1814 www.stantec.com PROJECT
SUB-SLAB SOIL VAPOR
SAMPLING REPORT
1166 BROOKS AVE
ROCHESTER. NEW YORK

TITLE OF DRAWING SITE LOCATION MAP PROJECT NO. 16059

FIG. 1

TABLE 1 SUMMARY OF SUB-SLAB VAPOR SAMPLING RESULTS

1166 Brooks Avenue Rochester, New York

	1	ab Vapor 66-SS-1		ab Vapor 66-SS-2	Soil Vapor / Indoor Air Matrix ⁽⁴⁾	Recommended Action ^(5,6)
VOC Compound	Result (µg/m³)	MRL (µg/m³)	Result (µg/m³)	MRL (µg/m³)		(µg/m³)
Vinyl Chloride 1,1-Dichloroethane cis-1,2-Dichloroethene Trichloroethene Trans-1,2-Dichloroethene Tetrachloroethene	ND ND ND ND ND ND	0.72 0.72 0.72 0.72 0.72 0.72	ND 1.6 1.2 13 ND 5.1	0.71 0.71 0.71 0.71 0.71 0.71	No Applicable Matrix No Applicable Matrix No Applicable Matrix Matrix 1 No Applicable Matrix Matrix 2	NA NA NA No Further Action NA No Further Action

Notes:

- 1. ND = Compound was analyzed for, but not detected above the method reporting limit.
- 2. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- 3. Samples analyzed by EPA Method TO-15.
- Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- Soil Vapor / Indoor Air Matrix 1; Guidance for Evaluating Soil Vapor Intrusion in the State of New York.
 Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- Soil Vapor / Indoor Air Matrix 2; Guidance for Evaluating Soil Vapor Intrusion in the State of New York.
 Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for
 Environmental Health, Bureau of Environmental Exposure.
- 7. Bold-faced values are concentrations that have been reported above the method reporting limits.

TABLE 2 SUMMARY OF INDOOR AIR QUALITY SAMPLING RESULTS

1166 Brooks Avenue Rochester, New York

	Indoo BU-116		Indoor Air BU-1166-IA-2		USEPA BASE ⁽⁴⁾ Data (background office levels)	NYSDOH Mitigation Guideline Value ⁽⁵⁾	
VOC Compound	Result (µg/m³)	MRL (µg/m³)	Result (µg/m³)	MRL (µg/m³)	Indoor (µg/m³)	Indoor (µg/m³)	
Vinyl Chloride 1,1-Dichloroethane cis-1,2-Dichloroethene Trichloroethene Trans-1,2-Dichloroethene Tetrachloroethene	ND ND ND ND ND	0.69 0.69 0.69 0.25 J 0.69 0.69	ND ND ND ND ND	0.67 0.67 0.67 0.25 J 0.67 0.67	<0.9 <0.5 <1.0 <1.2 - 1.2 N/A <1.9 - 5.9	N/A N/A N/A 5 N/A 100	

Notes:

- 1. ND = Compound was analyzed for, but not detected above the method reporting limit.
- 2. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- 3. Samples analyzed by EPA Method TO-15.
- 4. Building Assessment and Survey Evaluation (BASE '94-'98); Unpublished; Indoor Environments Division, United States Environmental Protection Agency (USEPA).
- 5. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- 6. Draft Guidance For Evaluating The Vapor Intrusion To Indoor Air Pathway From Groundwater And Soils (Subsurface Vapor Intrusion Guidal United States Environmental Protection Agency (USEPA), Office of Solid Waste and Emergency Response (OSWER), November 2002.
- 7. N/A = not available.
- 8. Bold-faced values are concentrations that have been reported above the method reporting limits.

TABLE 3 SUMMARY OF OUTDOOR AIR QUALITY SAMPLING RESULTS

1166 Brooks Avenue Rochester, New York

	Ambie BU-116		EPA BASE ⁽⁴⁾ Data (background levels)	NYSDOH Air Guideline Value ⁽⁵⁾	
VOC Compound	Result (µg/m³)	MRL (µg/m³)	Outdoor (µg/m³)	Outdoor (µg/m³)	
Vinyl Chloride 1,1-Dichloroethane cis-1,2-Dichloroethene Trichloroethene Trans-1,2-Dichloroethene Tetrachloroethene	ND ND ND ND ND	0.70 0.70 0.70 0.25 J 0.70 0.70	<1.0 <0.4 <1.0 <1.5 N/A <1.4 - 3.0	N/A N/A N/A 5 N/A 100	

Notes:

- 1. ND = Compound was analyzed for, but not detected above the method reporting limit.
- 2. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- 3. Samples analyzed by EPA Method TO-15.
- Building Assessment and Survey Evaluation (BASE '94-'98); Unpublished;
 United States Environmental Protection Agency (USEPA), Indoor Environments Division.
- Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- 6. N/A = not available.

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Pet	se Smith	Date Time	Prepared	3/20/06
Preparer's Affiliation	Stanted Consulting Se	ervices Inc. Phone No	585-475-14	140
Purpose of Investigation	on_Buell BCA			
1. OCCUPANT:				
Interviewed: Y N				
Last Name: Wagner	Fi	rst Name:Dick		/ Dave Shahin
Address:1166 Broo	oks Avenue		· -	
County: Monroe				
Home Phone: N/A	Office	Phone: (585) 340-5902		
Number of Occupants	persons at this location	30-35 Age of Occupan	ts <u>18 - 7</u>	0, varies
2. OWNER OR LAN	DLORD: (Check if san	ne as occupant <u>x</u>)		
Interviewed: Y/N				
Last Name: Dean	Fi	rst Name: Scott		
Address: 1166 Ero	ooks Avenue		·····	
County: Monroe				
Home Phone: N/	A Office	Phone: (585) 340-5902		
3. BUILDING CHAR	RACTERISTICS			
Type of Building: (Ci	rele appropriate response	*)		
Residential Industrial	School Church	Commercial Multi-use Other:		

If the prop	erty is residential,	type? (Circle app	propriate resp	ponse)		
Cap Du _l	ach sed Ranch oe Cod blex dular	2-Family Split Level Contemporary Apartment Hou Log Home	Col Mo se Tov	family lonial sbile Home withouses/Condos ner:		
If multiple	units, how many?					
If the prop	erty is commercial	, type?				
Busines	ss Type(s)	keting / Fund	raiser			
Does it	include residences	(i.e., multi-use)?	Y (N)	If yes, how many	/?	
Other char	acteristics:					
Number	of floors		Building ag	ge_1970_		
Is the bu	uilding insulated?(Y	Ν	How air tight	ht? Tight / Average	Not Tight	
4. AIRFL	ow					
Use air cur	rent tubes or trace	r smoke to evalu	ıate airflow	patterns and qualita	ıtively descrik	e:
Airflow betv	ween floors					
Not condu	cted (NC)					
				<u></u>		
Airflow near	r source				-	
NC						
Outdoor air	infiltration					
NC						
						
Infiltration in	nto air ducts					

NC

5. BA	SEMENT AN	ID CONSTRUCTIO	N CHARACTERISTICS	(Circle all that apply)
-------	-----------	----------------	-------------------	-------------------------

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type: None	full	crawlspace	slab	other
c. Basement floor: None	concrete	dirt	stone	other
d. Basement floor: None	uncovered	covered	covered with	
e. Concrete floor:	unsealed	sealed	sealed with _	Carpeted/except Kitchen Tile in Bathroom
f. Foundation walls:	poured	block	stone	other
g. Foundation walls:	unsealed	sealed	sealed with _	
h. The basement is: None	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finis	hed
j. Sump present?	Y)N			
k. Water in sump? Y N	/ not applicable			
Basement/Lowest level depth below	grade: NA	_(feet)		
Other than sump, no identifie 6. HEATING, VENTING and AIR	d entry points	S.		ports, drams)
Type of heating system(s) used in the	is building: (cir	cle all that apply	y – note primar	y)
Hot air circulation Space Heaters Electric baseboard	Heat pump Stream radiati Wood stove	on Radiai	ater baseboard nt floor or wood boiler	Other
The primary type of fuel used is:				
Natural Gas Electric Wood	Fuel Oil Propane Coal	Kerose Solar	ene	
Domestic hot water tank fueled by:	gas (2)		_	
Boiler/furnace located in: Basen	nent Outdo	ors Main I	Floor	Other
Air conditioning: Centra	al Air Windo	ow units Open V	Windows	None

Are there air distribution ducts p



Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

There are air ducts in the eastern portion of t	the building. They are i	insulated and
located above the ceiling tiles. No cold air	returns were noted.	
7. OCCUPANCY No Basement		
Is basement/lowest level occupied? Full-time Oc	ccasionally Seldom	Almost(Never
Level General Use of Each Floor (e.g., family)	room, bedroom, laundry, wo	orkshop, storage)
Basement		
office, administrative, telefund	raising	
2 nd Floor		
3 rd Floor		
4 th Floor		
8. FACTORS THAT MAY INFLUENCE INDOOR AII	R QUALITY	
a. Is there an attached garage?	Y(N)	
b. Does the garage have a separate heating unit?	Y/N/NA	
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y / N / NA Please specify_	
d. Has the building ever had a fire?	Y (N) When?	
e. Is a kerosene or unvented gas space heater present?	Y/N Where's	,
f. Is there a workshop or hobby/craft area?	Y N Where & Type	?
g. Is there smoking in the building?	Y/N How frequently	?
h. Have cleaning products been used recently?	YN When & Type?	spic/span, typical
i. Have cosmetic products been used recently?	Y N When & Type?	

j. Has painting/s	staining been done in the last 6 months?	(Y) N	Where & When? latex, touch-up
k. Is there new o	carpet, drapes or other textiles?	YN	Where & When?
1. Have air fresh	eners been used recently?	(Y)N	When & Type?spray, occasional
m. Is there a kit	chen exhaust fan?	Y / (N)	If yes, where vented?
n. Is there a bat	throom exhaust fan?	(Y)'N	If yes, where vented?
o. Is there a clot	hes dryer?	Y/N	If yes, is it vented outside? Y / N
p. Has there bee	n a pesticide application?	Y/N	When & Type?
Are there odors If yes, please de	in the building? escribe:	Y.N	
(e.g., chemical man	ding occupants use solvents at work? ufacturing or laboratory, auto mechanic o sticide application, cosmetologist	Y N or auto body	shop, painting, fuel oil delivery,
If yes, what types	s of solvents are used?alcohol wipes t	co clean to	elephones
If yes, are their c	lothes washed at work?	Y (N)	
Do any of the build response)	ling occupants regularly use or work a	t a dry-clea	ning service? (Circle appropriate
Yes, use dr	y-cleaning regularly (weekly) y-cleaning infrequently (monthly or less) at a dry-cleaning service	(No Unknown
Is there a radon m Is the system active	itigation system for the building/structe e or passive? Active/Passive	ure? Y N	Date of Installation:
9. WATER AND S	EWAGE		
Water Supply:	Public Water Drilled Well Driv	ven Well	Dug Well Other:
Sewage Disposal:	Public Sewer Septic Tank Lea	ch Field	Dry Well Other:
10. RELOCATION	N INFORMATION (for oil spill residen	tial emerge	ency)
a. Provide reas	ons why relocation is recommended: _		
b. Residents ch	oose to: remain in home relocate to f	friends/famil	ly relocate to hotel/motel
c. Responsibilit	ty for costs associated with reimbursem	ent explain	ed? Y/N
d. Relocation p	ackage provided and explained to resid	lents?	Y/N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

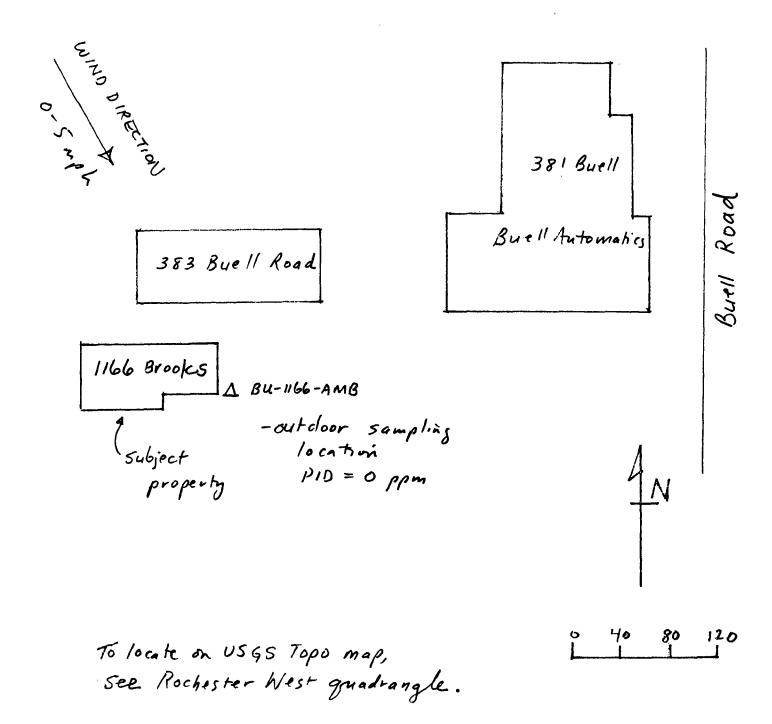
Basement:											
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First Floor:				5 : ; 3 : ; 5 :					. (
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First Floor:						COLORO CONTROL					
First Floor:											
First Floor:											
First Floor:											
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12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

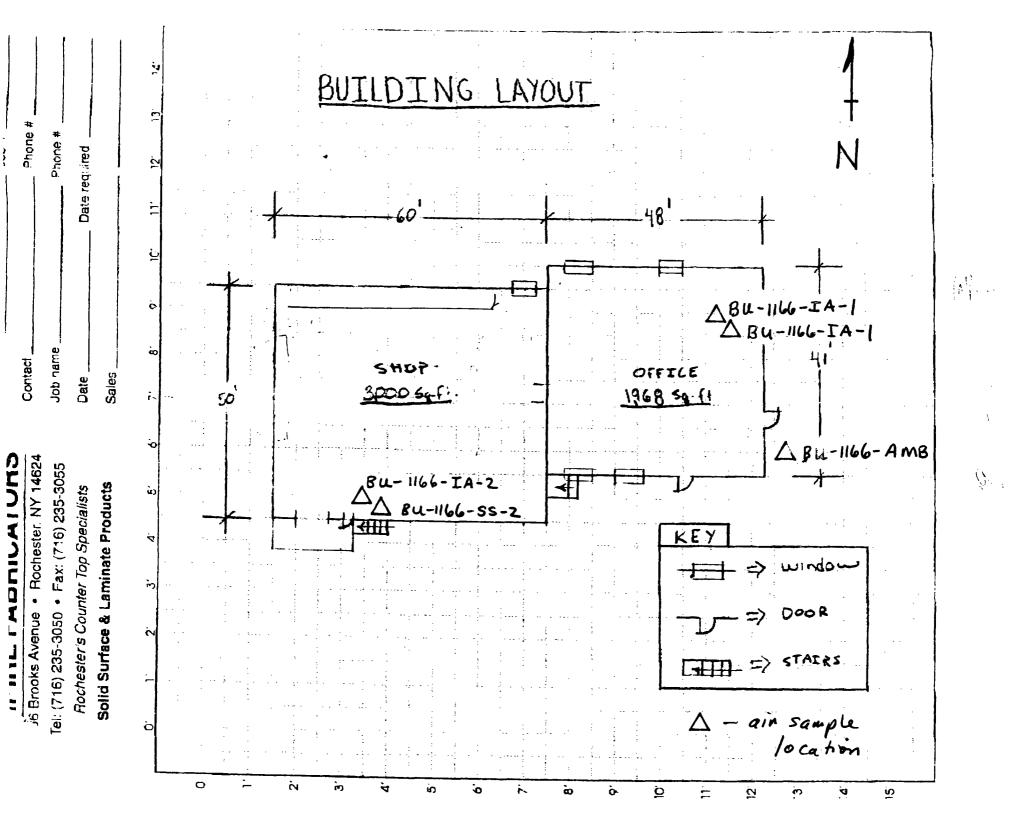
Make & Model of field instrument used:	Rae ppb PID
••••••	

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Bathroom #1	febreze deodorizer	1000 ml	u	alcohol	0	N
Bathroom #1	krud kutter	1 gal	u	biodegradable non-toxic	0	N
Bathroom #1	Oust air sanitizer	3-10 0:	z uo	no active ingredient ethylene glycol	0	N
Bacilloom #1	Cust all sanitizer	3-10 0	. uo	ethylene grytor		N
	<u> </u>					

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



EMPIRE FABRICATORS 11 66 Brooks Avenue · Rochester, NY 14624

Tel: (716) 235-3050 • Fax: (716) 235-3055

Rochester's Counter Top Specialists

Solid Surface & Laminate Products

Sales

	Job name	Contact	Customer Job
Date required	Fhone *	Phone #	# dob

		OFFICE	. LAYOU		N
	BREAK ROOM 9'X 15' OFFICE #2	MATN OFFICE 20' X 13'	HEATING RM., V		
SHOP	J 10' x 11'	176			
	OFFICE #3	-216" SHO	WROOM	29'	5'18'
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A FULL SERVICE ENVIRONMENTAL LABORATORY

April 11, 2006

Mr. Peter Smith
Stantec Consulting
2250 Brighton-Henrietta TL Rd.
Rochester, NY 14623-2706

APR 1 2005 APR 1 2005

PROJECT:BUELL AUTOMATICS #1905000333 Submission #:R2630850

Dear Mr. Smith

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker Project Manager

Enc.



1 Mustard ST. Suite 250 Rochester, NY 14609 (585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Stantec Consulting

Project Reference: BUELL AUTOMATICS #1905000333

Lab Submission # : R2630850

Project Manager : Karen Bunker

Reported : 04/11/06

Report Contains a total of $\frac{13}{2}$ pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.



CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2630850

Lab ID	Client ID
890930	BU-1166-SUMP
890931	BU-1166-DUP

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.







ORGANIC QUALIFIERS

- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL.
- N Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P".
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- X As specified in Case Narrative.
- * This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited New Jersey ID # NY004 New York ID # 10145 New Hampshire ID # 294100 A/B Pennsylvania Registration 68-786 Rhode Island ID # 158 West Virginia ID # 292

VOLATILE ORGANICS

METHOD 8260B

Reported: 04/11/06

Stantec Consulting

Project Reference: BUELL AUTOMATICS #1905000333

Client Sample ID : BU-1166-SUMP

Date Sampled: 03/Date Received: 03/			Sample Matrix: Analytical Run	
ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED ANALYTICAL DILUTI	: 03/29/06 ON: 1.00			
ANALYTICAL DILUTI ACETONE BENZENE BROMODICHLOROMETHA BROMOFORM BROMOMETHANE 2-BUTANONE (MEK) METHYL-TERT-BUTYL CARBON DISULFIDE CARBON TETRACHLORI CHLOROBENZENE CHLOROFORM CHLOROMETHANE 1,2-DIBROMO-3-CHLO CYCLOHEXANE DIBROMOCHLOROMETHA 1,2-DIBROMOETHANE 1,3-DICHLOROBENZEN 1,4-DICHLOROBENZEN 1,4-DICHLOROBENZEN 1,2-DICHLOROBENZEN DICHLORODIFLUOROME 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHON CIS-1,2-DICHLOROET TRANS-1,2-DICHLORO TRANS-1,3-DICHLORO ETHYLBENZENE 2-HEXANONE ISOPROPYLBENZENE METHYL ACETATE METHYLENE CHLORIDE	ON: 1.00 NE ETHER DE ROPROPANE NE E E E E THANE HENE ETHENE E OPENE PROPENE	20 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L
4-METHYL-2-PENTANON STYRENE 1,1,2,2-TETRACHLORO TETRACHLOROETHENE TOLUENE 1,2,4-TRICHLOROBENA	DETHANE	10 5.0 5.0 5.0 5.0	10 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U	UG/L UG/L UG/L UG/L UG/L UG/L
1,1,1-TRICHLOROETHA 1,1,2-TRICHLOROETHA TRICHLOROETHENE	NE	5.0 5.0 5.0	5.0 U 5.0 U 5.0 U	UG/L UG/L 4 UG/L

VOLATILE ORGANICS

METHOD 8260B

Reported: 04/11/06

Stantec Consulting

Project Reference: BUELL AUTOMATICS #1905000333

Client Sample ID : BU-1166-SUMP

Date Sampled: 03/23/06 06:15 Order #: 890930 Sample Matrix: WATER
Date Received: 03/23/06 Submission #: R2630850 Analytical Run 128282

ANALYTE			PQL	RESULT	UNITS
DATE ANALYZED : 03/2: ANALYTICAL DILUTION:	9/06 1.00				
TRICHLOROFLUOROMETHANE 1,1,2-TRICHLORO1,2,2-TRIFLU VINYL CHLORIDE O-XYLENE M+P-XYLENE	JOROETHA		5.0 5.0 2.0 5.0	5.0 U 5.0 U 2.0 U 5.0 U 5.0 U	UG/L UG/L UG/L UG/L UG/L
SURROGATE RECOVERIES	QC	LIMITS		•	
4-BROMOFLUOROBENZENE TOLUENE-D8 DIBROMOFLUOROMETHANE	(80 (88 (91	- 123 %) - 124 %) - 115 %)) 	97 100 101	્રું હું

VOLATILE ORGANICS

METHOD 8260B

Reported: 04/11/06

Stantec Consulting

Project Reference: BUELL AUTOMATICS #1905000333

Client Sample ID : BU-1166-DUP

Date Sampled:	03/23/06	Order #:	890931	Sample Matrix: WATER	
Date Received:	03/23/06	Submission #:	R2630850	Analytical Run 128282	

Date Received: 03/23/06 Submissio	n #: R2630850	Analytical Run	128282
ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/29/06			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 Ŭ	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
METHYL-TERT-BUTYL ETHER	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
CYCLOHEXANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
1,3-DICHLOROBENZENE	5.0	5.0 U	UG/L
	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE			
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
DICHLORODIFLUOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYLBENZENE	5.0	5.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
		5.0 U	UG/L
1,2,4-TRICHLOROBENZENE	5.0		
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L 6
1,1,2-TRICHLOROETHANE	5.0	5.0 U	~ · · ·
TRICHLOROETHENE	5.0	5.0 U	UG/L

VOLATILE ORGANICS

METHOD 8260B

Reported: 04/11/06

Stantec Consulting

Project Reference: BUELL AUTOMATICS #1905000333

Client Sample ID : BU-1166-DUP

Date	Sampled:	03/23/06	Order #	#:	890931	Sample Matrix:	WATER
Date	Received:	03/23/06	Submission #	#:	R2630850	Analytical Run	128282

					-		
ANALYTE				PQL		RESULT	UNITS
DATE ANALYZED : 03/29/06 ANALYTICAL DILUTION: 1.							
TRICHLOROFLUOROMETHANE 1,1,2-TRICHLORO1,2,2-TRIFLUORO VINYL CHLORIDE O-XYLENE M+P-XYLENE	ETHA			5.0 5.0 2.0 5.0		5.0 U 5.0 U 2.0 U 5.0 U	UG/L UG/L UG/L UG/L UG/L
SURROGATE RECOVERIES	QC	LIM	ITS				
4-BROMOFLUOROBENZENE TOLUENE-D8 DIBROMOFLUOROMETHANE	(80 (88 (91	- :	123 124 115			96 97 98	% % %

VOLATILE CRGANICS METHOD: 8260B

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 893562	ANALYT	128282	
ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 03/29/06 ANALYTICAL DILUTION: 1.0			
ACETONE BENZENE BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE 2-BUTANONE (MEK) METHYL-TERT-BUTYL ETHER CARBON DISULFIDE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE CHLOROFORM CHLOROMETHANE 1,2-DIBROMO-3-CHLOROPROPANE CYCLOHEXANE DIBROMOCHLOROMETHANE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE 1,2-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHENE CIS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE 1,2-DICHLOROPROPENE	20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	108 99 98 105 105 106 103 105 108 104 97 118 89 70 105 103 102 103 113 103 102 107 99 99 99 99 99	50 - 150 70 - 130 70 - 130 70 - 130 50 - 150 50 - 150 70 - 130
TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE 2-HEXANONE ISOPROPYLBENZENE METHYL ACETATE METHYLCYCLOHEXANE METHYLENE CHLORIDE 4-METHYL-2-PENTANONE (MIBK) STYRENE 1,1,2,2-TETRACHLOROETHANE TETRACHLOROETHENE TOLUENE 1,2,4-TRICHLOROBENZENE	20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	114 104 97 99 94 71 98 102 98 98 107 101	70 - 130 70 - 130 70 - 130 70 - 130 50 - 150 50 - 150 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130

VOLATILE ORGANICS METHOD: 8260B

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 893562	ANALYT	128282	
ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 03/29/06 ANALYTICAL DILUTION: 1.0			
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE 1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA VINYL CHLORIDE O-XYLENE M+P-XYLENE	20.0 20.0 20.0 20.0 20.0 20.0 20.0 40.0	99 102 100 104 109 99 101	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130

VOLATILE ORGANICS

METHOD 8260B

Reported: 04/11/06

Project Reference:
Client Sample ID : METHOD BLANK

		893561	Sample Matrix: WATER Analytical Run 128282		
		PQL	RESULT	UNITS	
3/29/06 1.00					
PANE E NE		20000000000000000000000000000000000000	00000000000000000000000000000000000000	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	
		5.0 5.0 5.0	5.0 Ŭ 5.0 U 5.0 U	UG/L UG/L 10 UG/L	
	Submission 3/29/06	Submission #: 3/29/06 1.00 PANE E NE IBK)	PQL 3/29/06 1.00 20 5.0 5.0 5.0 5.0 10 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	Submission #: PQL RESULT 3/29/06 1.00 20 20 U 5.0 5.0 U 5.0 5.0 U 5.0 5.0 U 5.0 5.0 U 10 10 U 5.0 5.0 U 10 10 U 5.0 5.0 U	

VOLATILE ORGANICS

METHOD 8260B

Reported: 04/11/06

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Date Received:	Order #: 8935 Submission #:	61	Sample Matrix: Analytical Run	
ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED : 03 ANALYTICAL DILUTION:	/29/06 1.00			
1,1,2-TRICHLORO1,2,2-TRI VINYL CHLORIDE O-XYLENE M+P-XYLENE	FLUOROETHA	5.0 2.0 5.0 5.0	5.0 U 2.0 U 5.0 U 5.0 U	UG/L UG/L UG/L UG/L
SURROGATE RECOVERIES	QC LIMITS			
4-BROMOFLUOROBENZENE TOLUENE-D8 DIBROMOFLUOROMETHANE	(80 - 123 % (88 - 124 % (91 - 115 %)	98 100 102	96 96 96



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR#			
CAS Contact			

An Employee - Owned Company One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE Project Number ANALYSIS REQUESTED (Include Method Number and Container Preservative) **PRESERVATIVE** Preservative Key 1. HCL 2250 Brighton Henrietta Toun Line Road Rochester, NY 14623 NUMBER OF CONTAINERS HNO: 3. HoSO NãOH 5. Zn. Acetate 6 МеОН 7. NaHSO 8. Other FOR OFFICE USE ONLY **CLIENT SAMPLE ID** LAB ID TIME MATRIX 0415 W SPECIAL INSTRUCTIONS/COMMENTS TURNAROUND REQUIREMENTS Metals REPORT REQUIREMENTS INVOICE INFORMATION RUSH (SURCHARGES APPLY) I Results Only II Results + GC Summaries (LCS, DUP, MS MSD as required, STANDARD REQUESTED FAX DATE III. Results + QC and Calibration Summaries . ___ iV. Duta Validation Report with Flaw Duta REQUESTED REPORT DATE See GAPP ... V. Speicaszod Forms / Custom Report SAMPLE RECEIPT: CONDITION/COOLER TEMP: Edata X Yes ... No CUSTODY SEALS: Y N RECEIVED BY RELINQUISHED BY RECEIVED BY RELINQUISHED BY Signature Signature Signature Signature Printed Name Printed Name Printed Name Printed Name Film Date/Time Date/Time Date:Time Falle Ten Distribution: White - Return to Originator, Yeslow - Lisb Copy, Pink - Retained by Olient

Cooler Receipt And Preservation Check Form

Project/ClientS	ientec		Sı	ıbmissi	on Numbe	r RRG	<u>308</u> 5	SO.
 Were custody Did all bottle Did any VOA Were Ice or I Where did th Temperature Is the temper If No, Expla Date/Time To 	y seals on outside of papers properly for arrive in good control of the packs present? The bottles originate of cooler(s) upon a sture within 0° - 6°	of coole illed or indition icant air receipt	er? ut (ink, n (unbr ir bubb	signed roken)? les? Ves	yes	YES YES YES YES YES CAS/RO Yes No	NO NO NO NO OC, CLI Yes	N/A ENT Yes No
PC Secondary Review Cooler Breakdown: 1. Were all bottle 2. Did all bottle 3. Were correct	Date: 3 containers used for Cassettes / Tube	val to 3/24 (i.e. ar gree wi	Run S nalysis th cust	, preser ody paj dicated	by:by:vation, etc oers?	.)? YES YES YES	NO NO NO B Bags In	
		YES	NO	Sample	1.D.	Reagent	Vo	ol. Added
pH	Reagent							
12	NaOH			1				
2	HNO ₃					1		
2	H ₂ SO ₄							
Residual Chlorine (+/-)	for TCN & Phenol		1	1				
5-9**	P/PCBs (608 only)	<u> </u>	<u> </u>	 				
YES = All samples OK **If pH adjustment is req	NO = Sam			ved at lab	as listed	PC OK to adju	st pH	
. (7	C Vial pH Verification Fested after Analysis) Following Samples Exhibited pH > 2			0	ther Comm	ents:		
PC Secondary Revi	ew:	<u> </u>	 Cip					13



A FOR THE

Marine

April 24, 2006

Mr. Peter Smith Stantec Consulting Group, Inc. 2250 Brighton- Henrietta Townline Road Rochester, NY 14623-2706

Re: Buell Automatics Project/ 19050033

CAS Submission #s P2600754, R2630990

Dear Mr. Smith,

Enclosed is the analytical data report for the above referenced project. All analyses were preformed at the CAS-Simi Valley Air Laboratory. The data was also forwarded to you in final format on 4/7/06.

Please contact me at (585)-288-5380 ext. 134 if you have questions regarding this information.

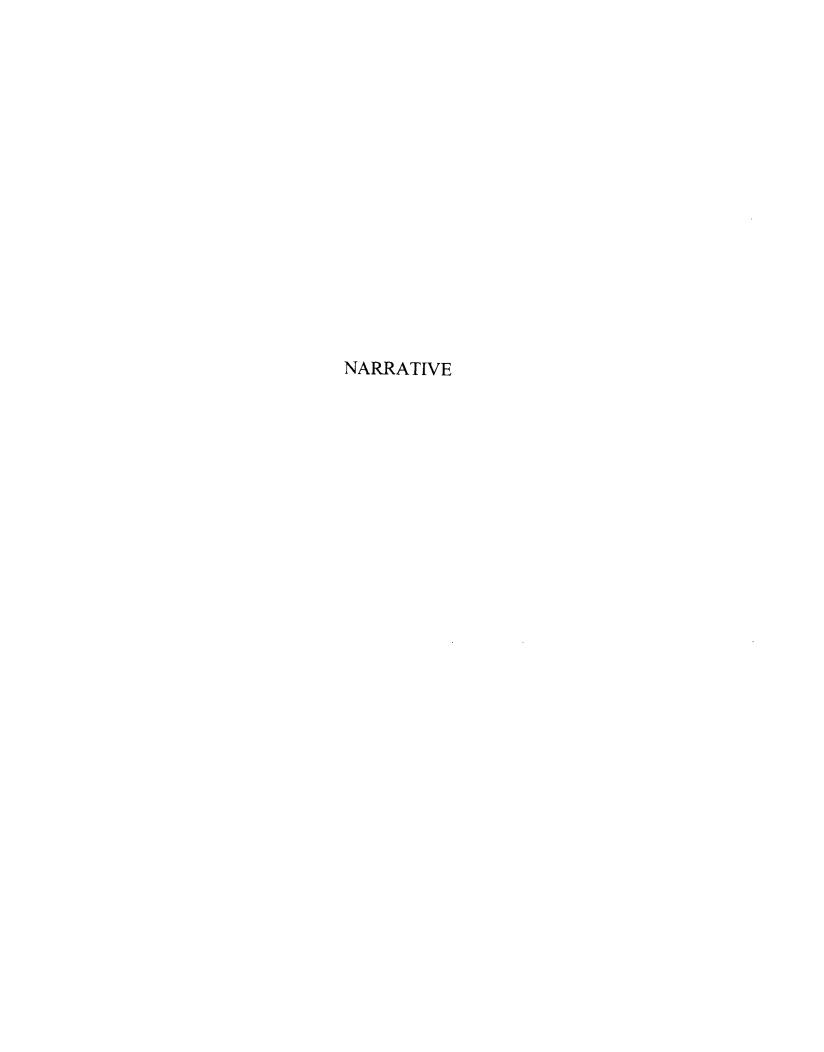
Sincerely,

COLUMBIA ANALYTICAL SERVICES

Law Burker

Karen Bunker Project Manager

Enc.





LABORATORY REPORT

Client:

STANTEC

Date of Report:

04/18/06

Address:

Date Received:

03/24/06

CAS Project No:

P2600754

Contact:

Mr. Peter Smith

Purchase Order:

Verbal

Client Project ID: Buell Automatics / 190500033

New York Lab ID:

11221

Five (5) Stainless Steel Summa Canisters labeled:

"BU-1166-SS-1"

"BU-1166-IA-1"

"BU-1166-SS-2"

"BU-1166-IA-2"

"BU-1166-AMB"

The samples were received at the laboratory under chain of custody on March 24, 2006. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for selected volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5972 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given in the attached data package. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Reviewed and Approved:

(hance) Politis

Reviewed and Approved:

Chaney Bolster **Analytical Chemist** Air Quality Laboratory

Chris Pamell GCMS-VOA Team Leader

Air Quality Laboratory

Columbia Analytical Services, Inc. Sample Acceptance Check Form

Client:	Stantec			Work order:	P2600754			_
Project:	Buell Automatics 19	00500033						
-	Sample(s) received o	n: 3/24/06	Date opened	: 3/24/00	6 by:	MZ		
<u>Note:</u> Has	form is used for <u>a</u> ll samples t	received by CAS. The use of	this form for custody scals is st	netly meant to indicate p	presence absence a	nd not as ar	indicatio	en of
compliance	or nonconformity. Thermal	preservation and pH will only	, be evaluated either at the requ	est of the client or as rec	paired by the metho	5d/SOP.		
						<u>Yes</u>	No	N/Λ
1	Were custody seals or	outside of cooler Box?					\boxtimes	
	Location of scal(s)?		<u></u>	·	_Sealing Lid?			\boxtimes
	Were signature and o	date included?						\boxtimes
	Were seals intact?							\boxtimes
	Were custody seals on	outside of sample conta	iiner?				X	
	Location of seal(s)?			ر در د محمول د سمی د سری هی رسی	_Sealing Lid?			X
	Were signature and o	date included?						X
	Were seals intact?							X
2	•	ers properly marked wit				\boxtimes		
3		's arrive in good condition				\boxtimes		
4		ly papers used and filled				\boxtimes		
5	•	labels and/or tags agree				\boxtimes		
6	·	received adequate for an	alysis?			\boxtimes		
7	Are samples within sp	-			\boxtimes			
S	Was proper temperate	-	n) of cooler at receipt adl					\boxtimes
		Cooler Temperature		<u>.</u> °C				
		Blank Temperature		_°C		_	_	
9	• •	-	g to method/SOP or Clier		tion?			\boxtimes
			samples are pH (acid) pr	eserved?				\boxtimes
		cked for presence/absence						X
			malyst check the sample p	oH and if necessary	z alter it?			X
10		the tubes capped and in	tact?					\boxtimes
		they contain moisture?	_					\boxtimes
11		e the badges properly cap						\boxtimes
	Arc	dual bed badges separat	ed and individually cappo	ed and intact?				\boxtimes
	Lab Sample ID	Required pH	рН	VOA Headspace	Recei	ipt / Prese	rvation	
1	•	(as received, if required)	(as received, if required)	(Presence Absence)		Commen		
P260075	4-001			NA	 			
P260075	4-002			NA				
P260075				NA				
P260075		 	 	NA NA	 			
P260075	4-005	- 		NA NA	<u> </u>			
		+	 		 			
					 			
		<u> </u>			<u></u>			
Explain	any discrepancies: (incl	ude lab sample ID numl	pers):			·		

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer	Laboratory		Ar	nalytical R	equiremer	nts	
Sample	Sample	*VOA	*BNA	*VOA	*Pest	*Metals	*Other
Code	Code	GC/MS	GC/MS	GC	PCBs		
	j	Method	Method	Method	Method		
	! !	#	#	#	#		
kd-long-Sal	96 1954 - COI	CIA 10-15					
Put-11/16-17-1 Fel: 11/60 03-02-	-019 ₂						
Fill How is - Com	H213				R		
EU HEB-LA 1	P504			<u> </u>	11/2	10/10	
EU-1160-AME	± −035	V					
				<u> </u>	<u></u>		
			 _ 	<u></u>	<u></u>		
	<u></u>						
	<u> </u>						
		``	4				
			41				
			4/1.	<u> </u>			
				15			
				. ,			

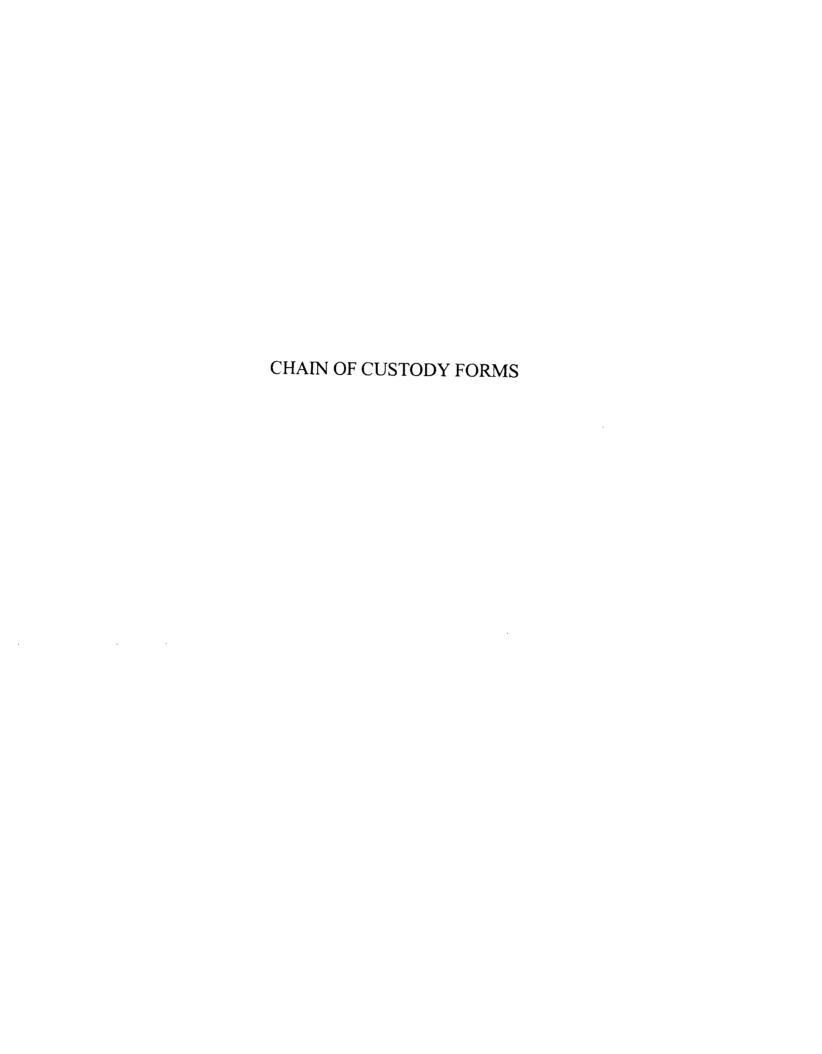
65 6/2000

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory		Date	Date Rec'd	Date	Date
Sample ID	Matrix	Collected	at Lab_	Extracted	Analyzed
76.56.50 T154-001	Air	3/22/06	3/54/66	NA	3/3/104
1 -(5)					4
1979					4/1/06
ggu					3/31/26
J -015	, ,		+	ŧ.	4/1/06-
	1.5	·			
		U.	21		
			4/11/06		
			عر, ـ		
		,			

67 6/2000



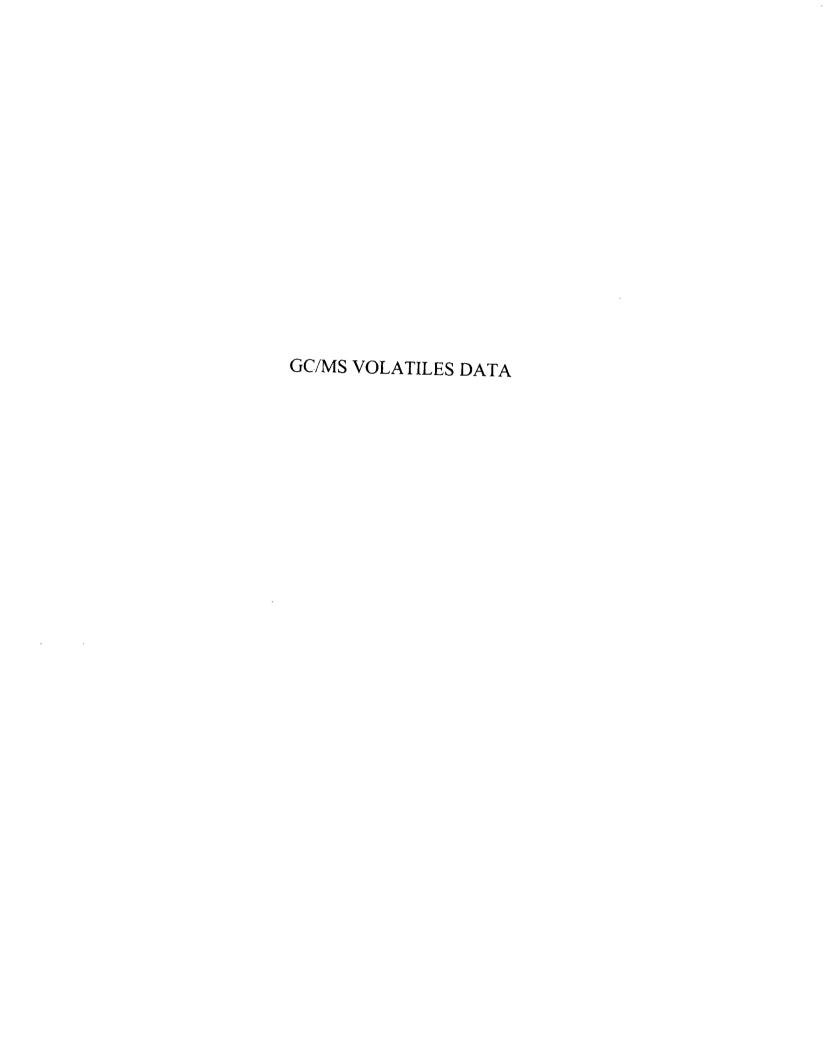
Columbia Analytical

Air Quality Laboratory 2665 Park Center Drive, Suite D Simi Valley, California 93065

Chain of Custody Record & Analytical Service Request

Page	of	
raye	 Ųι	

Analytical Services**	Simi Valley,	California 9	3065	Requested	lequested Turnaround Time by Close of Business Day (Surcharges) Please Circle:							CAS Project No. P2600 754		
Services™	Phone (805)			1 Day (100%) 2 Day (75%)	3 Day (50%) 4 D	ay (35%) 5 Day		-Standard		172600	754		
Donostino Information (Commiss	Fax (805) 52	6-7270						CAS Contact:	· A.		i			
Reporting Information (Company	y Name & Add	dress)		P.O. # / Billir	g Information			KAR	EN NY	NKER				
Stantec	41 7		R 0					Analys	is Method	and/or A	nalytes			
2250 Brighton He Rochistop, New	urielta 1	MA LIN	1 Co-ex				•			Γ.				
Attention:	your 1	4623		Project Nam				3 3	10 3	in	1 1			
Attention: Peter Sini	th			ir iojeci ivaiii	Buell	45多	CE,	PC	}					
Phone	Fax			Project Num	ber .	2 × 4	DC - D	~	1	Comments				
Shone (585) 413 - 5635 (a) Small Address for Result Report	585) 424	1-595	1		1905	00033		hlor C.A	(, -	3		e.g. Preservative or specific instructions		
				Sampler (Pri		<i>(</i> , , , , , , , , , , , , , , , , , , ,		1.104		2	1			
@peterim pl	hsmith 1	0 Stavil	ec.com	leter S	mith/	Jet Suil		オー・	C13 1,2 Mars	W	1			
Client Sample ID	Date	Time	Lab	Sample Type (Air/Liquid	Canister ID	51. O . II	•	61.5,	5:3					
shell dample 15	Collected Collected Sample					Flow Controller (Bar Code #)	Sample Volume	172		از	}			
BU-116-55-1	3/23/0b	8.50	0	/Solid/Tube)	(Bar Code#) 500182		6L	X				N's te		
BU-1166-IA-1	1.	8:50		Air	Scc212		6L	×		 	-4.1	5.ti -		
BU 1146 -55-2	ti	9:05	0	Air		GV-2-013	GL	X			-7.8	Specifiz		
BU-1166-IA-2	• • • • • • • • • • • • • • • • • • • •	9:05		Air		6V-2-026	6L	×		 	38			
36-1166- Amb	3/23/06		6	Air	 	FC 00511	62	 			-23	Compount		
	/-/			7117	1/2000	7600.517	<u> </u>	_X	·	 	-3.5	1155 (6)		
			 		<u> </u>					<u> </u>	-23.8			
				<u> </u>	<u> </u>		·				-24.6			
								<u> </u>			-29.5			
			ļ					 			-28.4			
								<u> </u>						
							- "		***************************************	 	 			
port Tier Levels - please selec	ct			L	L	<u></u>		l		<u> </u>	Project Pequi	rements (MRLs, QAPP)		
er 1 - (default if not specified)	er 1 - (default if not specified) Tier III (QC, Raw Di						EDD required (Yes / No			Toject Hequi	rements (withes, QALL)		
er II (QC forms)	SF CA	TEGOR	(B		Туре:				1					
linquished by: (alignature) Daje:				Time:	Received by: (S	ignature)			Date:	Time:	1			
Manue	Daye: 3/23/06	12:00	HILL	ignature)			Date:	6936						
inquished by: (Signature)	Date: /	Time:	Received by: (S	ignature)			Date:	Time:	1					
inquished by: (Signature)	inquished by: (Signature) Date:					ignature)			D-1-	-	0-1-12			
				Time:	Received by: (S	ignature;			Date:	Time:	Cooler / Blank			
			L	L	L					L	Temperature	°C4439		





RESULTS OF ANALYSIS Page 1 of 1

Client: Stantec

Client Project ID: Buell Automatics/190500033 CAS Project ID: P2600754

Surrogate Spike Recovery Results

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2 Date Collected: 3/23/06

Analyst: Chaney Bolster Date Received: 3/24/06

Sampling Media: Summa Canister(s) Date Analyzed: 3/31 - 4/1/06

Test Notes:

		1,2-Dichlor	oethane-d4	Tolue	ne-d8	Bromofluo	Data	
Client Sample ID	CAS Sample ID	%	Acceptance	%	Acceptance	%	Acceptance	Qualifier
	JL	Recovered	Limits	Recovered	Limits	Recovered	Limits	
Method Blank	P060331-MB	105	70-140	99	70-140	94	70-140	
Lab Control Sample	P060331-LCS	110	70-140	98	70-140	98	70-140	
BU-1166-SS-1	P2600754-001	99	70-140	99	70-140	93	70-140	
BU-1166-IA-1	P2600754-002	98	70-140	99	70-140	95	70-140	
BU-1166-SS-2	P2600754-003	111	70-140	96	70-140	95	70-140	
BU-1166-IA-2	P2600754-004	99	70-140	98	70-140	95	70-140	
BU-1166-AMB	P2600754-005	97	70-140	99	70-140	93	70-140	

Verified By: M Date: 4/7/ 6/2
Page No.:

00754VOA RD1 - Surrogates

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: Lab Control Sample

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2600754

CAS Sample ID: P060331-LCS

Laboratory Control Sample (LCS) Summary

Test Code:

EPA TO-15

Date Collected:

NA

Instrument ID:

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Date Received:

NA

Analyst:

Chaney Bolster

Date Analyzed:

3/31/06

Sampling Media:

Summa Canister

Volume(s) Analyzed:

NA Liter

Test Notes:

CAS#	Compound	Amount Spiked ng	Amount Recovered ng	% Recovery	CAS Acceptance Limits	Data Qualifier
75-01-4	Vinyl Chloride	25.8	29.0	112	71-131	
156-60-5	trans-1,2-Dichloroethene	26.8	26.0	97	73-131	
75-34-3	1,1-Dichloroethane	27.3	25.6	94	69-134	
156-59-2	cis-1,2-Dichloroethene	27.3	26.4	97	74-130	
79-01-6	Trichloroethene	28.3	27.4	97	73-132	
127-18-4	Tetrachloroethene	26.5	25.2	95	78-130	

Verified By: jw	Date: 4/7/44

RESULTS OF ANALYSIS Page 1 of 1

Client:

Stantec

Client Project ID:

Buell Automatics/190500033

CAS Project ID: P2600754

Method Blank Summary

Test Code:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Analyst:

Chaney Bolster

Date Analyzed: 3/31/06

Sampling Media:

Summa Canister

Time Analyzed: 11:01

Lab File ID: 03310603.D

Test Notes:

Client Sample ID	CAS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P060331-LCS	03310604.D	11:54
BU-1166-SS-1	P2600754-001	03310612.D	19:41
BU-1166-IA-1	P2600754-002	03310614.D	21:21
BU-1166-IA-2	P2600754-004	03310616.D	23:01
BU-1166-AMB	P2600754-005	03310618.D	00:40
BU-1166-SS-2	P2600754-003	03310621.D	03:08

INIL

Vial: 1

Multipir: 1.00

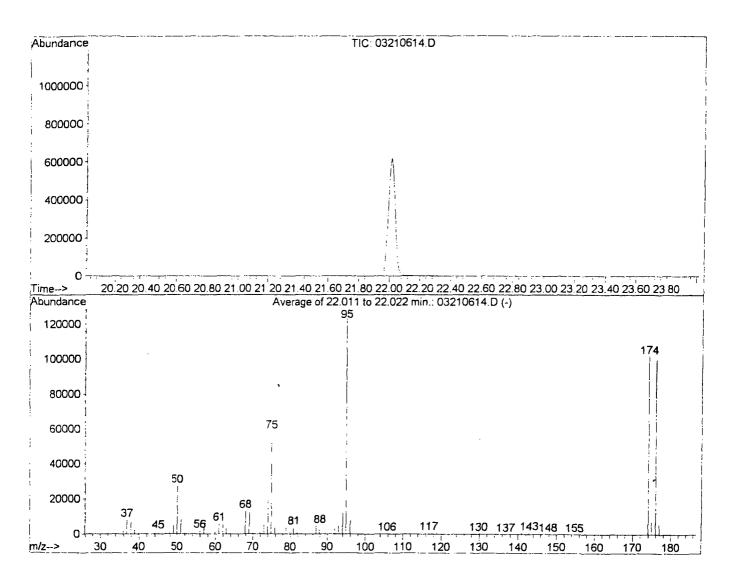
Data File : J:\MS02\DATA\2006_03\21\03210614.D

Acq On : 21 Mar 2006 22:5 $\overline{1}$ Cperator: CB Sample : Calibration Blank (100ml) Inst : MS02

Misc : S15-03160601

MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2032206.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD



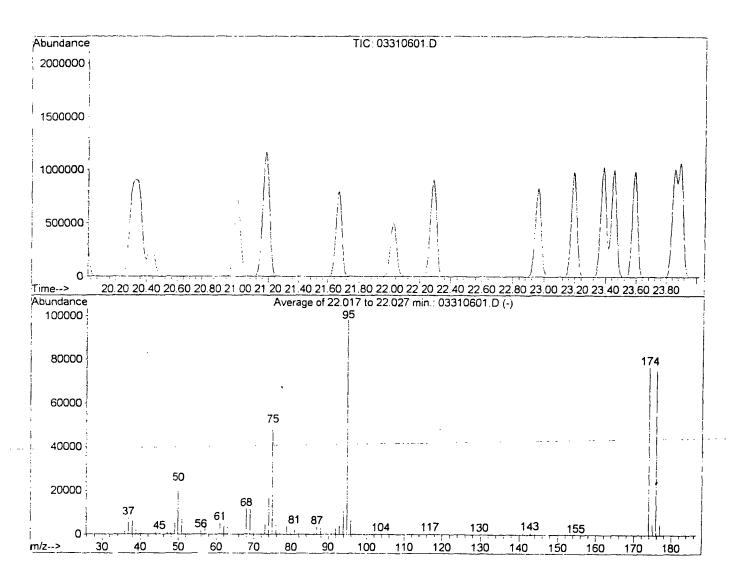
AutoFind: Scans 3363, 3364, 3365; Background Corrected with Scan 3349

	Target Mass	 	Rel. to Mass		Lower Limit:	 	Upper Limit%	1	Rel. Abn%		Raw Abn	1	Result Pass/Fail	j J
1	50	i	95	·	9	1	40	1	22.4	1	27555	- - .	PASS	
	75	1	95	ļ	30	i	66	1	47.8	1	58840	ł	PASS	1
-	96	1	95	;	5	1	9		6.4	i	7878	ļ	PASS	ļ
1	173	i	174	1	0.00	1	2	-	0.0	1	O	i	PASS	i
į	174	1	95	1	50	1	120	ļ	82.7	}	101773	ļ	PASS	Ì
1	175	1	174	İ	4	1	9	1	6.9	1	7027	1	PASS	i
i	176	Ì	174	j	93		101	i	98.1	i	99816	1	PASS	i
1	177	-	1.76	Į	5	! ;	9	(6.6	-	6561	}	PASS	İ

Multiplr: 1.00

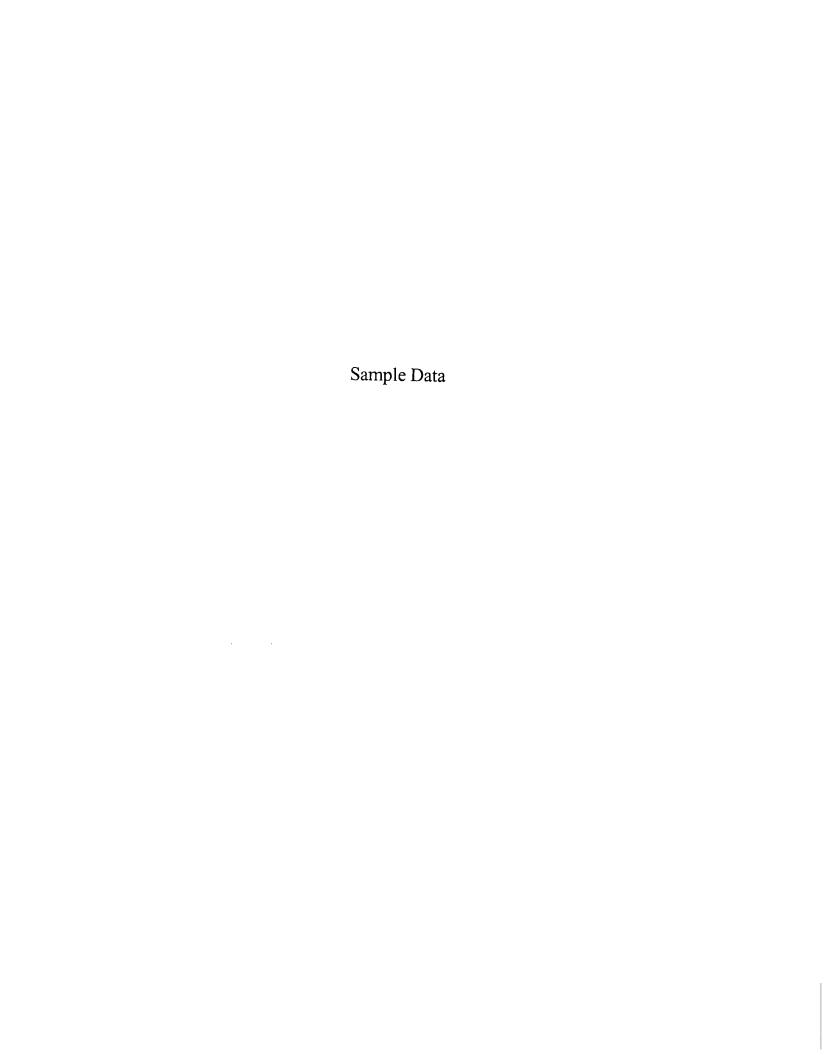
Misc : S15-03300601/S15-03210603

MS Integration Params: rteint.p
Method : J:\MS02\METHODS\R2032206.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5880/HF 5972 MSD



AutoFind: Scans 3364, 3365, 3366; Background Corrected with Scan 3351

 	Target Mass		Rel. to Mass		Lower !imit%	1	Upper Limit%		Rel. Abn	!	Raw Abn	1	Result Pass/Fail	1
	50 75 96 173	· · · · · · · · · · · · · · · · · ·	95 95 95 174		8 30 5 0.00		40 66 9 2		23.5 50.6 6.5 0.0		23109 49787 6443 0		PASS PASS PASS PASS	
	174 175 176 177	i i	95 174 174 176		50 4 93 5	!	120 9 101 9	1	78.0 7.5 98.7 6.5	} ! 	76795 5731 75832 4897		PASS PASS PASS PASS	



RESULTS OF ANALYSIS Page 1 of 1

Client:

Stantec

Client Sample ID: BU-1166-SS-1

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2600754

CAS Sample ID: P2600754-001

Test Code:

EPA TO-15

Date Collected: 3/23/06

Instrument ID:

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Date Received: 3.24/06

Analyst:

Chaney Bolster

Date(s) Analyzed: 3/31/06

Summa Canister Sampling Media:

Volume(s) Analyzed:

1.00 Liter(s)

Test Notes:

Container ID:

SC00182

Pi 1 =-2.0 Pf 1 = 3.5

Can D.F. = 1.43

CAS#	Compound	Result µg/m³	MRL	Result	MRL	Data
		μg/π	μg/m³	ppbV	ppbV	Qualifier
75-01-4	Vinyl Chloride	ND	0.72	ND	0.28	
156-60-5	trans-1,2-Dichloroethene	ND	0.72	ND	0.18	
75-34-3	1,1-Dichloroethane	ND	0.72	ND	0.18	
156-59-2	cis-1,2-Dichloroethene	ND	0.72	ND	0.18	
79-01-6	Trichloroethene	ND	0.72	ND	0.13	
127-18-4	Tetrachloroethene	0.98	0.72	0.14	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: 10	Date:	4.	HM
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Stantec Consulting Group Inc. 85 Metro Park Rochester NY 14623-2607 Tel: (585) 475-1440 Fax: (585) 272-1814

stantec.com





16059

May 9, 2005

Mr. Bart Putzig, P.E. New York State Department of Environmental Conservation Division of Environmental Remediation 6274 East Avon-Lima Road Avon, New York 14414-9519

RE: Sub-Slab Soil Vapor Survey Report

Five Star Tool Co., Inc. NYSDEC Site No. C828114

Brownfield Cleanup Agreement Index No. B8-0576-00-04A

Buell Automatics, Inc. Rochester, New York

Dear Bart:

On behalf of Buell Automatics, Inc. (Buell), Stantec Consulting Services, Inc. (Stantec) has prepared this Sub-Slab Soil Vapor Survey Report, summarizing work performed at Five Star Tool Co., Inc. (Five Star), located at 383 Buell Road, Rochester, New York (Figure 1).

Background

Written notice was forwarded to Mr. Gert Falkner, owner of 383 Buell Road, on February 28, 2005, identifying the purpose of, and reasons for the proposed survey. Stantec submitted a Work Plan to the New York State Department of Environmental Conservation (NYSDEC) on March 25, 2005 for a sub-slab soil vapor survey at the Five Star building located at 383 Buell Road. The Work Plan included the required elements as set forth in the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Public Comment Draft, February 2005 (NYSDOH Draft Guidance). The Work Plan incorporated comments and suggestions that Stantec received at a meeting that was held with the NYSDEC, NYSDOH, and Monroe County Department of Health (MCDOH) on January 5, 2005 and during a building inspection performed on March 24, 2005. The work plan was approved in a letter from the Department dated March 28, 2005.

Building Inspection

A building inspection was performed on March 24, 2005. Representatives from the NYSDEC, NYSDOH, MCDOH and Stantec were in attendance for the building inspection. Mr. Ken Lalonde, President of Five Star and Mr. Gert Falkner, property owner, were also present. Prior to the building inspection, Stantec had contacted Mr. Falkner for any available drawings, plans or records for Five Star. However, no such documents were available.

Stantec

Mr. Bart Putzig, P.E. May 9, 2005 Page 3

Analytical Results

Volatile organic compound analysis was performed using United States Environmental Protection Agency (USEPA) Method TO-15. The following site-specific volatile organic compounds (VOCs) were selected for laboratory analysis:

- Vinyl Chloride (VC);
- 1,1-Dichloroethane (1,1-DCA);
- cis-1,2-Dichloroethene (cis-1,2-DCE); and
- Trichloroethene (TCE).

Summaries of the laboratory analytical results are presented in Tables 1, 2 and 3 along with applicable guidance values. Laboratory reports are presented in Appendix B. A data usability report was not required for this sampling program.

The sub-slab vapor sample (32905-1) and indoor air sample (32905-2) were reported to contain detectable concentrations of target VOCs. No detectable concentrations of target VOCs were reported for the outdoor air sample (32905-3). Method Reporting Limits (MRLs) ranged from 1.4 μ g/m³ to 1.8 μ g/m³. Concentrations reported for the sub-slab vapor sample resulted in the slightly higher MRLs.

As shown in Table 1, three (3) VOCs were reported for the sub-slab vapor sample:

- 1,1-DCA (4.2 μg/m³);
- cis-1,2-DCE (9.1 μg/m³), and
- TCE (340 µg/m³).

As shown in Table 2, only one (1) target VOC, cis-1,2-DCE was reported to be present in the indoor air sample at a concentration of 1.6 $\mu g/m^3$, a value which is below USEPA target indoor air concentrations.

According to the NYSDOH Draft Guidance "Soil Vapor / Indoor Air Matrix 1", the sub-slab concentration of TCE found in the Five Star building is high enough to warrant mitigation. The NYSDOH Guidance document defines mitigation as follows:

"Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated."

However, the NYSDOH Draft Guidance also indicates that guidance values are currently under review and the reported occurrences of target VOCs will be evaluated on a case-by-case basis.

Stantec

Mr. Bart Putzig, P.E. May 9, 2005 Page 4

Conclusion

Analysis of the sub-slab vapor sample revealed three VOCs to be present, including 340 $\mu g/m^3$ of TCE, beneath the concrete floor slab in the northeastern portion of the Five Star building. Analysis of the indoor air sample, collected immediately adjacent to the sub-slab sample, revealed one low level concentration of cis-1,2-DCE (1.6 $\mu g/m^3$).

Given the low level concentration of cis-1,2-DCE inside the Five Star Building, which is below USEPA target indoor air concentrations, there does not appear to be a human health concern for the building occupants at this time. However, given the sub-slab vapor concentrations, Buell Automatics will work with the NYSDEC, NYSDOH and MCDOH to pursue this matter.

Should you have any questions or require further information, please call me at 585-475-1440, ext. 760.

Sincerely,

Michael P. Storonsky Senior Associate

Figure 1 – Site Location Map Figure 2 – Sample Location Plan

Table 1 - Summary of Sub-Slab Vapor Sampling Results

Table 2 – Summary of Indoor Air Quality Sampling Results

Table 3 – Summary of Outdoor Air Quality Sampling Results

Appendix A – Indoor Air Quality Questionnaire and Building Inventory

Appendix B – Analytical Laboratory Reports

cc: Frank Sowers, P.E. (NYSDEC - Avon)

James Charles Esq. (NYSDEC - Buffalo)

Joseph Albert (MCDOH – Rochester)

Debby McNaughton (NYSDOH – Rochester)

Richard Lawton (Buell Automatics)

Jerry Greenfield, Esq. (Chamberlain, D'Amanda, Oppenheimer & Greenfield)

Gert Falkner (Five Star Tool)

Joseph Picciotti (Harris Beach)

File

u:16059\docs\bca\gas_survey\rpt.sub_slab_air_five_star.dft.doc

Stantec

Mr. Bart Putzig, P.E. May 9, 2005 Page 2

It is understood that the entire building was constructed in 1957, with no additions since that time. The building is a concrete block structure with a raised floor that was constructed to allow for potential connection to the Buell Automatics building at 381 Buell Road. No internal footers are known to exist. There are no sumps in the building, as the floor is elevated approximately four (4) feet above the surrounding grade. The heating system is natural gas hot air circulation. The portion of the building in closest proximity to the Buell Automatics property is used as a grinding room. Both water and natural gas service come into the building in the grinding room, near its northeastern corner.

Upon access to the building, air quality was screened using a calibrated photoionization detector (PID). Air was screened just above significant openings in the floor. No PID readings above background were noted originating from these openings.

Given the potential for commercially available products, such as solvents, oils, etc. to contain VOCs, attention was given to the presence of such products as potential sources of VOC findings. All solvents and grinding oils used at Five Star are petroleum-based distillates. The NYSDOH building inventory is provided in Appendix A.

It was agreed during the March 24, 2005 site visit that a location (marked with white paint) in the northeastern portion of the building would be the area where a sub-slab soil vapor point would be installed and an indoor air sample would be collected. In addition, one ambient air sample was to be collected outside, on the upwind side of the building.

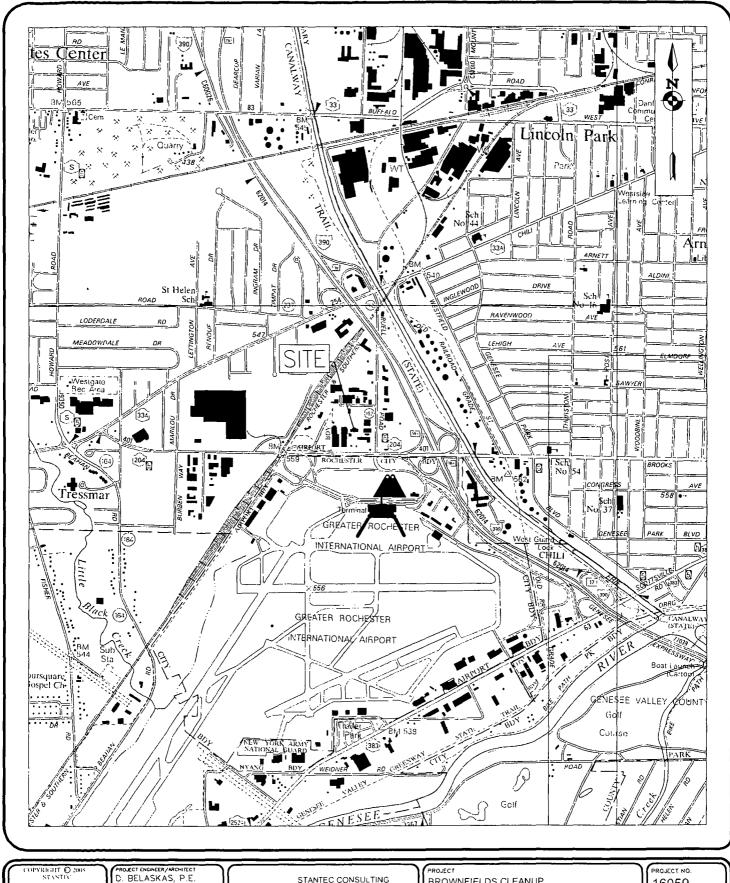
Field Activities

The floor penetration for the sub-slab sample was completed with a rotary hammer drill on March 28, 2005 for installation of the monitoring point. Mr. Frank Sowers (NYSDEC) and Ms. Debbie McNaughton (NYSDOH) were present for installation of the monitoring point. The concrete was approximately 8-inches thick. Following penetration of the floor, soil vapor tubing (¼ ID. HDPE) was installed and sealed with non-shrinking hydraulic cement. The tubing was installed to a depth approximately two inches below the slab to allow the soil vapor samples to be collected from directly beneath the concrete floor. The tubing was capped and the grout was allowed to set for approximately 24 hours.

Air sampling was performed by Stantec at the Five Star building on March 29, 2005. Mr. Joe Albert (MCDOH), Mr. Sowers (NYSDEC) and Ms. McNaughton (NYSDOH) were present at the time of sampling. Prior to sampling, the tubing for the sub-slab sample was purged and monitored with a PID. A PID reading of 1.4 ppm was recorded.

Three samples were collected using 6.0-liter Summa canisters equipped with two (2) hour flow regulators and monitored with in-line flow gauges. The sub-slab vapor sample and the indoor air sample were designated 32905-1 and 32905-2, respectively and had initial vacuum readings of approximately 30 inches of Hg (in. Hg). The outdoor air sample 32905-3 had an initial vacuum reading of approximately 27 in. Hg.

All summa canister samples were submitted to Columbia Analytical Services (CAS) Air Quality Laboratory in Simi Valley, California, a New York State-approved laboratory (NY Lab. ID No: 11221).



PYRIGHT © 2005 STANTTE ORAWING ALTERATION HOLATION OF LAW FOR UNLESS ACTING UND IN OF UCCHSED ARCHI PROJECT WANAGER
M. STORONSKY A. LESS SCALE 1" = 2000 FIRST ISSUE DATE

STANTEC CONSULTING SERVICES INC.

85 Metro Park Rocnester, N.Y. 14623-2674 Tet (585) 475-1440 Fax: (585) 272-1814 www.stantec.com

BROWNFIELDS CLEANUP SUB-SLAB VAPOR SAMPLING 383 BUELL RD ROCHESTER, NEW YORK

TITLE OF DRAWING SITE LOCATION MAP

PROJECT NO. 16059 DRAWING NO

FIG. 1

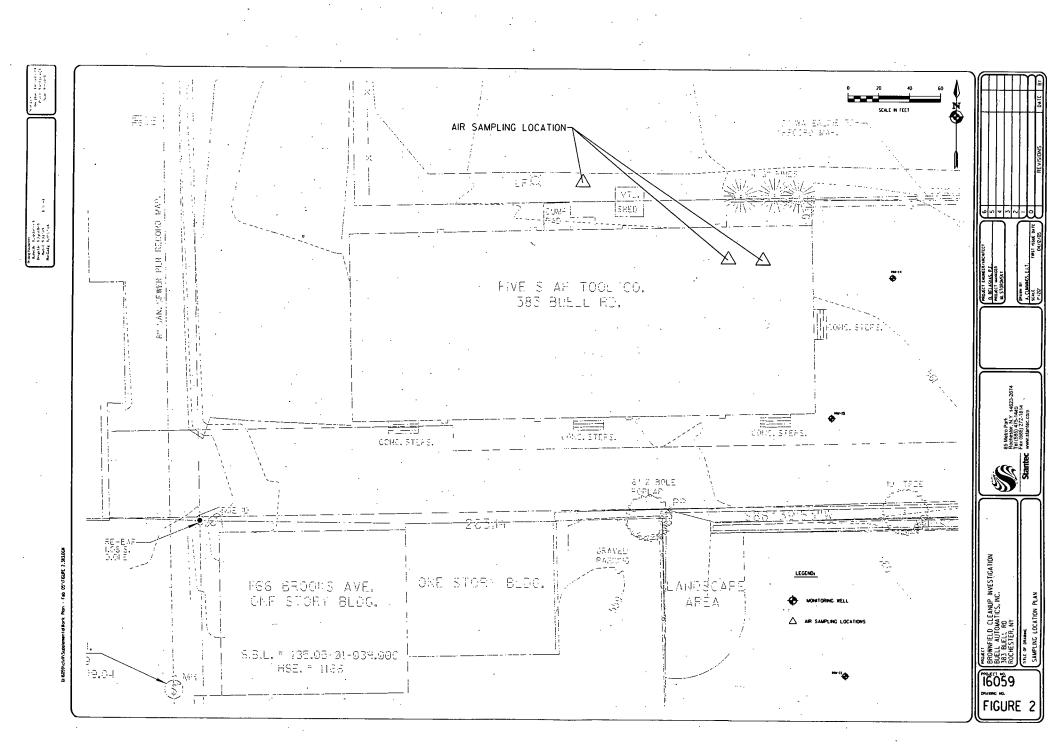


TABLE 1 SUMMARY OF SUB-SLAB VAPOR SAMPLING RESULTS

Five Star Tool Company, Inc. 383 Buell Road Rochester, New York

		ab Vapor # 32905-1	Soil Vapor / Indoor Air Matrix 1 ⁽⁴⁾
VOC Compound	Result (µg/m³)	MRL (μg/m³)	(µg/m³)
Vinyl Chloride 1,1-Dichloroethane cis-1,2-Dichloroethene Trichloroethene	ND 4.2 9.1 340	1.4 1.4 1.4 1.4	No Applicable Matrix No Applicable Matrix No Applicable Matrix Mitigate ⁽⁵⁾

Notes:

- 1. ND = Compound was analyzed for, but not detected above the method reporting limit.
- 2. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- 3. Samples analyzed by EPA Method TO-15.
- 4. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- 5. Soil Vapor / Indoor Air Matrix 1; Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- 6. Bold-faced values are concentrations that have been reported above the method reporting limits.

TABLE 2 SUMMARY OF INDOOR AIR QUALITY SAMPLING RESULTS

Five Star Tool Company, Inc. 383 Buell Road Rochester, New York

	Indoor Air Sample # 32905-2				NYSDOH Air Guideline Value ⁽⁵⁾	USEPA Target Indoor Air Concentration ⁽⁶⁾		
VOC Compound	Result	MRL	Indoor	Indoor	Indoor- 1 x 10 ⁻⁵	Indoor - 1 x 10 ⁻⁶		
	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)		
Vinyl Chloride	ND	1.5	<0.9	N/A	2.8	0.28		
1,1-Dichloroethane	ND	1.5	<0.5	N/A	500	50		
cis-1,2-Dichloroethene	1.6	1.5	<1.0	N/A	35	3.5		
Trichloroethene	ND	1.5	<1.2 - 1.2	5	0.22	0.022		

Notes:

- 1. ND = Compound was analyzed for, but not detected above the method reporting limit.
- 2. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- 3. Samples analyzed by EPA Method TO-15.
- 4. Building Assessment and Survey Evaluation (BASE '94-'98); Unpublished; Indoor Environments Division, United States Environmental Protection Agency (USEPA).
- 5. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- 6. Draft Guidance For Evaluating The Vapor Intrusion To Indoor Air Pathway From Groundwater And Soils (Subsurface Vapor Intrusion Guidance). United States Environmental Protection Agency (USEPA), Office of Solid Waste and Emergency Response (OSWER), November 2002.
- 7. N/A = not available.
- 8. Bold-faced values are concentrations that have been reported above the method reporting limits.

TABLE 3 SUMMARY OF OUTDOOR AIR QUALITY SAMPLING RESULTS

Five Star Tool Company, Inc. 383 Buell Road Rochester, New York

	Outdoor Air		EPA BASE ⁽⁴⁾ Data	NYSDOH Air	
	Sample # 32905-3		(background levels)	Guideline Value ⁽⁵⁾	
VOC Compound	Result	MRL	Outdoor	Outdoor	
	(µg/m³)	(µg/m³)	(μg/m³)	(µg/m³)	
Vinyl Chloride	ND	1.8	<1.0	N/A	
1,1-Dichloroethane	ND	1.8	<0.4	N/A	
cis-1,2-Dichloroethene	ND	1.8	<1.0	N/A	
Trichloroethene	ND	1.8	<1.5	5	

Notes:

- 1. ND = Compound was analyzed for, but not detected above the method reporting limit.
- 2. MRL = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
- 3. Samples analyzed by EPA Method TO-15.
- 4. Building Assessment and Survey Evaluation (BASE '94-'98); Unpublished; United States Environmental Protection Agency (USEPA), Indoor Environments Division.
- 5. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005. New York State Department of Health (NYSDOH), Center for Environmental Health, Bureau of Environmental Exposure.
- 6. N/A = not available.

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Peter H	Smith	Date/Time Prepared 3/29/2005 2:30pm
Preparer's Affiliation Star	tec	Phone No. (585) 475-1440
Purpose of Investigation_B	CA Investigat	tion, Buell Automatics (No. B8-0576-00-0
1. OCCUPANT: Five Sta	ar Tool Co., In	nc. (machine shop)
Interviewed: (Y)/ N		
Last Name: LaLonde		First Name: Ken
Address: 383 Buell Roa	d, Gates, NY	14624
County: Monroe	<u>.</u>	·
Home Phone:	Offic	ce Phone: (585) 328 - 9580
Number of Occupants/perso	ns at this locatio	on 22 Age of Occupants ^30
2 OWNER OR LANDLO	RD: (Check if s	same as occupant)
Interviewed: (Y) N		
Last Name: Falkner	F	First Name: Gert
Address: 383 Buell Roa	id, Gates, NY	14624
County: Monroe	_	
Home Phone:	Offi	ice Phone: (585) 328-9580
3. BUILDING CHARACT Type of Building: (Circle a)		nse)
Residential (Industrial)	School Church	Commercial/Multi-use Other:

If the property is residentia	ıl, type? (Circle app	propriate respon	se) N/A	
Ranch Raised Ranch Cape Cod	Contemporary	Coloni Mobile	al Home	
Duplex Modular	Apartment House Log Home	se Townh	ouses/Condos	
•		Omer.		
If multiple units, how many				
If the property is commercial	ial, type? N/A			
Business Type(s)				
Does it include residence	es (i.e., multi-use)?	Y / N	If yes, how many?	
Other characteristics:				
Number of floors 1		Building age 1	957_	
Is the building insulated? Y / N		How air tight?	Tight / Average Not Tight	
4. AIRFLOW				
Use air current tubes or tra	cer smoke to evalu	ıate airflow pa	tterns and qualitatively describe:	
Airflow between floors	N/A: First Floor C	Only		
Airflow near source				
Yes, exhaust vents nea	r machines			
Outdoor air infiltration Yes, overhead doors at	east and west e	end of building	g, infiltration around doors;	
closed during test			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Infiltration into air ducts Yes, for ventilation				

		:	3		
5.	BASEMENT AND CONSTRU	CTION CHARA	ACTERISTICS (Circle all that a	pply)
	a. Above grade construction:	wood frame	concrete	stone	brick
	b. Basement type:	full	crawlspace	slab	other raised floor
	c. Basement floor: N/A	concrete	dirt	stone	other
	d. Basement floor: N/A	uncovered	covered	covered with	
	e. Concrete floor:	unsealed	sealed	sealed with	
	f. Foundation walls:	poured (block	stone	other
	g. Foundation walls:	unsealed	sealed	sealed with	

h. The basement is: N/A wet damp dry moldy i. The basement is: N/A finished unfinished partially finished j. Sump present? k. Water in sump? Y / N (not applicable) Basement/Lowest level depth below grade: ____(feet) N/A

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks in concrete floor; water and gas utility entry points (north east corner)

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply - note primary)

Hot air circulation	+
Space Heaters	

Heat pump

Hot water baseboard

Stream radiation

Radiant floor

Electric baseboard

Wood stove

Outdoor wood boiler

Other _____

The primary type of fuel used is:

Natural Gas Wood

Fuel Oil Propane Coal

Kerosene Solar

Domestic hot water tank fueled by: _

electric

Boiler/furnace located in:

Basement

Outdoors

Main Floor

Other____

Air conditioning:	Central Air	Window units 4	Open W	Vindows	None	office only (roof unit)
Are there air distrib	oution ducts present?	YN				
	and cold air return ductwe turn and the tightness of d	•			_	
	purification of a	ir, blower sy	stem			
7. OCCUPANCY	7	-330				
Is basement/lowest l	evel occupied? Full-time	Occasi	onally	Seldom	Almost	Never
Level Gene	eral Use of Each Floor (e.g	., familyroon	ı, bedroo	om, laundry, w	orkshop,	storage)
Basement	N/A					
1 st Floor	office / machine shop				-	
2 nd Floor	N/A					
3 rd Floor	N/A					
4 th Floor	N/A					
8. FACTORS THAT	T MAY INFLUENCE IND	OOR AIR QI	JALITY			
a. Is there an attac	ched garage?			Y(N)		
b. Does the garage	e have a separate heating u	nit?		Y/N(NA)		
	powered machines or vehice rage (e.g., lawnmower, atv.			Y / N (NA) Please specify_		· · · · · · · · · · · · · · · · · · ·
d. Has the building	g ever had a fire?			Y (N) When?		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
e. Is a kerosene or	unvented gas space heater	present?		Y (N) Where	?	
f. Is there a works	hop or hobby/craft area?	ı	Y) N	Where & Type	? machi	ne shop
g. Is there smoking	g in the building?		Y (N)	How frequently		
h. Have cleaning p	products been used recently	v?	$(Y)_N$	When & Type?	w fh	ce/bath.

i. Have cosmetic products been used recently?	Y N When & Type?
5	
j. Has painting/staining been done in the last 6 months?	YN Where & When? office / shop
k. Is there new carpet, drapes or other textiles?	Y N Where & When? 1.5 years ago - office
1. Have air fresheners been used recently?	YN When & Type?
m. Is there a kitchen exhaust fan?	Y N If yes, where vented?
n. Is there a bathroom exhaust fan?	YN If yes, where vented? exterior
o. Is there a clothes dryer?	Y (N) If yes, is it vented outside? Y / N
p. Has there been a pesticide application?	Y (N) When & Type?
Are there odors in the building? If yes, please describe: industrial machine	YN
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used?petroleum disti	
If yes, are their clothes washed at work?	Y /(N)
Do any of the building occupants regularly use or work at response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	a dry-cleaning service? (Circle appropriate No Unknown
Is there a radon mitigation system for the building/structure. Is the system active or passive? Active/Passive	re? Y (N)Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Drive	en Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leach	h Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill resident	5 •,
a. Provide reasons why relocation is recommended:	
b. Residents choose to: remain in home relocate to fr	riends/family relocate to hotel/motel

- c. Responsibility for costs associated with reimbursement explained? Y/N
- d. Relocation package provided and explained to residents?

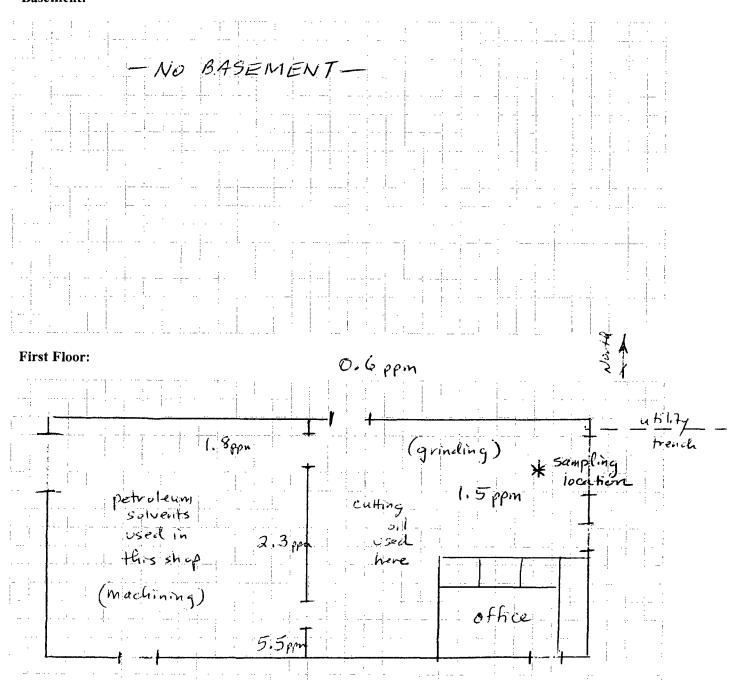
Y/N

6

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

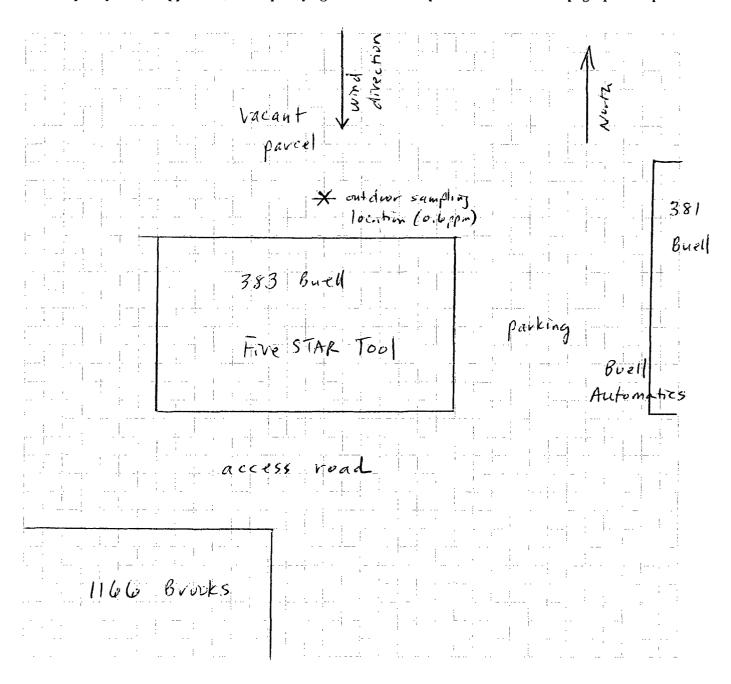
Basement:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Take & Model of field instrument used:	MiniRae	Polod	el 2000	

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
Machining	Way Oil	55 q	и	mineral oil	1.8	N
ıı y	Clean kuol,	5 g	и	triethand amine,	1.8	N
	culting fluid	.,		glycol		
41	Misc. paints,	1602	u	ethylbenzene, xylenes	2.3	N
	5 tains		<u> </u>	•		
11	acetone	3202	u	acetone	5.5	N
11	rust inhibitor	1102	U	mineral spirits, petroleun	5.5	2
				oil		
grinding	grinding oil	55 q	u/uo	mineral oil	1.3	N
<i>(</i> ,)		عا	, 			

			-			

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



May 2, 2005

Mr. Pete Smith Stantec Consulting Group, Inc. 85 Metro Park Rochester, NY 14623-2674 RECEIVED

MAY 04 2005

Stante

Re: Buell Automatics # 190500033

CAS Submission #R2525535 / P2500665

Dear Mr. Smith,

Enclosed is the analytical data report for the above referenced project. The samples were analyzed by the CAS- Simi Valley laboratory. Data was initially emailed to your company. All data was reviewed prior to submission.

Please contact me at (585)-288-5380 ext. 134 if you have questions regarding this information.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker Project Manager

Enc.



LABORATORY REPORT

Client:

STANTEC

Date of Report:

04/22/05

Address:

85 Metro Park

Date Received:

03/31/05

Rochester, NY 14623

CAS Project No:

P2500665

Contact:

Peter Smith

Purchase Order:

Verbal

Client Project ID: Buell Automatics/190500033

New York Lab ID:

11221

Three (3) Stainless Steel Summa Canisters labeled:

"32905-1"

"32905-2"

"32905-3"

The samples were received at the laboratory under chain of custody on March 31, 2005. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for selected volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5973 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Reviewed and Approved:

Chris Parnell

GCMS-VOA Team Leader Air Quality Laboratory

Reviewed and Approved:

Rusty Bravo

Analytical Chemist

Air Quality Laboratory

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: 32905-1

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

CAS Sample ID: P2500665-001

Test Code:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Analyst:

Rusty Bravo

Sampling Media:

Summa Canister

Test Notes:

Container ID: AC00672

Date Collected: 3/29/05 Date Received: 3/31/05

Date(s) Analyzed: 4/7/05

Volume(s) Analyzed:

1.00 Liter(s)

0.10 Liter(s)

Pi 1 =

-1.3 Pf 1 = 3.5

D.F. = 1.36

CAS#	Compound	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.4	ND	0.53	
75-34-3	1,1-Dichloroethane	4.2	1.4	1.0	0.34	
156-59-2	cis-1,2-Dichloroethene	9.1	1.4	2.3	0.34	
79-01-6	Trichloroethene	340	1.4	63	0.25	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KAH Date: 04/14/05

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec

Client Sample ID: 32905-2 ĆAS Project ID: P2500665 Client Project ID: Buell Automatics/190500033 CAS Sample ID: P2500665-002

Test Code: Instrument ID: EPA TO-15

Tekmar AUTOCAN/HP5973/HP6890/MS3

Analyst:

Rusty Bravo

Sampling Media:

Summa Canister

Test Notes:

Container ID: AC00669

Date Collected: 3/29/05

Date Received: 3/31/05

Date(s) Analyzed: 4/5/05

Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.9 Pf 1 = 3.5

D.F. = 1.54

CAS#	Compound	Result μg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
156-59-2	cis-1,2-Dichloroethene	1.6	1.5	0.40	0.39	
79-01-6	Trichloroethene	ND	1.5	ND	0.29	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Kurl Date: 04/14/05

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: 32905-3

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

Date Collected: 3/29/05

Date Received: 3/31/05

CAS Sample ID: P2500665-003

Test Code:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Analyst:

Rusty Bravo

Sampling Media: Test Notes:

Container ID:

Summa Canister

AC00706

Pi 1 =

Volume(s) Analyzed:

Pf 1 = 3.5

Date(s) Analyzed: 4/7/05

1.00 Liter(s)

D.F. = 1.77

CAS#	Compound	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.8	ND	0.69	
75-34-3	1,1-Dichloroethane	ND	1.8	ND	0.44	
156-59-2	cis-1,2-Dichloroethene	ND	1.8	ND	0.45	
79-01-6	Trichloroethene	ND	1.8	ND	0.33	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ кин

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: 32905-3

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

Date Collected: 3/29/05

Date Received: 3/31/05

Date(s) Analyzed: 4/7/05

CAS Sample ID: P2500665-003DUP

Test Code:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Analyst:

Rusty Bravo

Sampling Media:

Summa Canister

1.00 Liter(s)

Test Notes:

Container ID:

AC00706

Pi 1 =

-4.4

Pf 1 = 3.5

Volume(s) Analyzed:

D.F. = 1.77

CAS#	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.8	ND	0.69	
75-34-3	1,1-Dichloroethane	ND	1.8	ND	0.44	
156-59-2	cis-1,2-Dichloroethene	ND	1.8	ND	0.45	
79-01-6	Trichloroethene	ND	1.8	ND	0.33	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

KKIH

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: Method Blank

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

CAS Sample ID: P050404-MB

Test Code:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Analyst:

Rusty Bravo

Sampling Media:

Summa Canister

Date Collected: NA Date Received: NA

Date(s) Analyzed: 4/4/05

Volume(s) Analyzed:

1.00 Liter(s)

Test Notes:

D.F. = 1.00

CAS#	Compound	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
75-34-3	1,1-Dichloroethane	ND.	1.0	ND	0.25	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:	KUH	_Date:_	04-14-105
			Progr. No.

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: Method Blank

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

Date Collected: NA

Date Received: NA

CAS Sample ID: P050407-MB

Test Code:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Analyst:

Rusty Bravo

Sampling Media:

Summa Canister

Date(s) Analyzed: 4/7/05 Volume(s) Analyzed:

1.00 Liter(s)

Test Notes:

D.F. = 1.00

CAS#	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Stantec

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

Surrogate Spike Recovery Results

Test Code:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Analyst:

Rusty Bravo

Sampling Media:

Summa Canister(s)

Date Received: 3/31/05 Date Analyzed: 4/4 - 4/7/05

Date Collected: 3/29/05

Test Notes:

		1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data
Client Sample ID	CAS Sample ID	%	Acceptance	%	Acceptance	%	Acceptance	Qualifier
		Recovered	Limits	Recovered	Limits	Recovered	Limits	
Method Blank	P050404-MB	105	70-140	101	70-140	96	70-140	
Method Blank	P050407-MB	101	70-140	99	70-140	96	70-140	
Lab Control Sample	P050404-LCS	100	70-140	100	70-140	101	70-140	
Lab Control Sample	P050407-LCS	99	70-140	99	70-140	98	70-140	
32905-1	P2500665-001	99	70-140	97	70-140	97	70-140	
32905-2	P2500665-002	100	70-140	99	70-140	94	70-140	
32905-3	P2500665-003	100	70-140	99	70-140	96	70-140	
32905-3	P2500665-003DUP	100	70-140	99	70-140	96	70-140	

Verified By: KuH Date: 04-114105

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: Lab Control Sample

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

CAS Sample ID: P050404-LCS

Laboratory Control Sample (LCS) Summary

Test Code:

EPA TO-15

Summa Canister

Date Collected:

NA

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Date Received:

NA

Analyst: Sampling Media: Rusty Bravo

Date Analyzed: Volume(s) Analyzed: 4/4/05 NA Liter

Test Notes:

		Amount	Amount		CAS	
CAS#	Compound	Spiked	Recovered	%	Acceptance	Data
		ng	ng	Recovery	Limits	Qualifier
75-01-4	Vinyl Chloride	25.50	25.91	102	74-134	

CAS#	Compound	Spiked	Recovered	70	Acceptance	Data
····		ng	ng	Recovery	Limits	Qualifier
75-01-4	Vinyl Chloride	25.50	25.91	102	74-134	
75-34-3	1,1-Dichloroethane	26.25	26.65	102	77-129	
156-59-2	cis-1,2-Dichloroethene	26.00	27.07	104	79-132	i
79-01-6	Trichloroethene	26.00	26.43	102	80-134	

RESULTS OF ANALYSIS

Page 1 of 1

Client:

Stantec

Client Sample ID: Lab Control Sample

Client Project ID: Buell Automatics/190500033

CAS Project ID: P2500665

CAS Sample ID: P050407-LCS

Laboratory Control Sample (LCS) Summary

Test Code:

EPA TO-15

Date Collected:

NA

Instrument ID:

Tekmar AUTOCAN/HP5973/HP6890/MS3

Date Received:

NA

Analyst: Sampling Media: Rusty Bravo Summa Canister

Date Analyzed: Volume(s) Analyzed: 4/7/05 NA Liter

Test Notes:

· ·		Amount	Amount		CAS	
CAS#	Compound	Spiked	Recovered	%	Acceptance	Data
		ng	ng	Recovery	Limits	Qualifier
75-01-4	Vinyl Chloride	25.50	25.99	102	74-134	
75-34-3	1,1-Dichloroethane	26.25	25.86	99	77-129	
156-59-2	cis-1,2-Dichloroethene	26.00	26.38	101	79-132	
79-01-6	Trichloroethene	26.00	25.94	100	80-134	

Verified By:_____ KLIH

Columbia Analytical Services, Inc. Sample Acceptance Check Form

CH.			imple Acceptance Che		D2500445			
	nt: Stantec Consulti		· · · · · · · · · · · · · · · · · · ·	Work order:	P2500665			
Proje	et: Buell Automatic		D	2.21/0=				
	Sample(s) receive		Date opened:_	3/31/05	by:	kmh		
		nples received by CAS. The use			-		ın indicati	on of
готрин	nce or nonconformity. The	ermal preservation and pH will o	nly be evaluated either at the rec	quest of the client or as	required by the me		No	NI/A
1	Wana anata da sa	de an autoide afteralDa	()			<u>Yes</u> □	No	N/A
ı		als on outside of cooler/Bo	X ?		0 11 1110		\boxtimes	
	Location of seal				Scaling Lid?			\boxtimes
		and date included?						\boxtimes
	Were seals intac							\boxtimes
	· ·	ls on outside of sample con	itainer?				\boxtimes	
	Location of seal				Sealing Lid?			X
		and date included?						×
	Were seals intac							\boxtimes
2	-	tainers properly marked w	•			X		
3	_	iners arrive in good condi				\boxtimes		
4		stody papers used and fill				\boxtimes		
5	=	iner labels and/or tags ag	• • •			\boxtimes		
6		me received adequate for a	*			X		
7	· · · · · · · · · · · · · · · · · · ·	n specified holding times?		11		\boxtimes		
8	was proper temp	erature (thermal preservat	•					X
		Cooler Temperature		C				
0	familian de	Blank Temperature						1571
9	•	rvation necessary, accord	-	•	iation?			X
		idication that the submitted checked for presence/abse	• • • • • • • • • • • • • • • • • • • •	oreservea?				\square
		•						\(\sigma\)
10		ethod/SOP require that the	•	pri and <u>ii necessa</u>	ry after it?			\boxtimes
10		Are the tubes capped and Do they contain moisture?						i
11	Badges:	Are the badges properly of						\boxtimes
	**	Are dual bed badges separ	• •	and and intact?				\boxtimes
		Are dual bed bauges sepai	ated and individually capp	ed and mact:	<u> </u>	<u> </u>		
	Lab Sample ID	Required		VOA Headspace	Rece	ipt / Preser	vation	
		pH	(as received, if required)	(Presonce Absence)		Comments		
	65-001			NA	· · · · · · · · · · · · · · · · · · ·			
	65-002			NA				
25006	65-003			NA NA	**			
								
					 	 ,		
Evals	in any disersanaisa	rinclude Jah sample ID mu						<u></u>

Scotto SSP_MINS - condens Page 1994.

3/31:05 12:05 PM

Columbia Analytical Services*

Air Quality Laboratory 2665 Park Center Drive, Suite D Simi Valley, California 93065

Chain of Custody Record & Analytical Service Request

	i	i
Page	of	 <u> </u>

Analytical Services ³⁵	Simi Valley,	California 9:	3065	Requested 1	Turnaround Ti	me by Close of Bu	usiness Day (S	urcharges) Pl	ease Circle:		CAS Project No.		
Services ¹⁵	Phone (805)	526-7161		1 Day (100%) 2 Day (75%)	3 Day (50%) 4 Day	ay (35%) 5 Day	(15%) 10 Day	y-Standard		P2500665		
Villianie Dated-racker	Fax (805) 52							CAS Contact:	1000				
Reporting Information (Compar	ny Name & Ado	iress)		P.O. # / Billin	g Information				KARE	EN BL	NKEKT		
Stantec	1.							Analys	is Method	and/or Ar	nalvtes		
85 Metro Pau	(K	,					·-						
Attention 1	Rochester, Ny 14623 ntion: Peter Smith								•	C 1			
	٠ 			Project Name	roject Name Buell Automatics			برر	E, DCE	\ \ \			
Phone (STT)	Fax (55)	~ \		Project Numl	niect Number			1 1	TCE,			Comments	
475-1440	٠ .	124-5	951		1905	500033		ž	ر کا	4	•	e.g. Preservative or specific instructions	
Email Address for Result Repo	rting			Sampler (Pri	nt & Sign)	-		b v	: 75	DCA,		specific instructions	
Phsmith	@ Star	Hec.	Com	Potes	- Smith	/ lite Si	ill_	7 '	4. 1	A			
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32905-3	3/29/05			Air		FC 00329						- ambient	
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Relinquished by: (Signature)			Date:	Time:	Received by: (Si	gnature)			Date:	Time:	Cooler / Blank		
 			L						1		Temperature	°C	

September 24, 2004

Mr. Bart Putzig, P.E. New York State Department of Environmental Conservation Division of Environmental Remediation 6274 East Avon-Lima Road Avon. New York 14414-9519

RE: Final Sub-Slab Soil Gas Survey Report (Revised)

Comfort Inn, 395 Buell Road

Rochester, NY

16059

Dear Bart:

On behalf of Buell Automatics, Stantec (formerly Sear-Brown) is pleased to submit this Sub-Slab Soil Gas Survey Report for the Comfort Inn, 395 Buell Road (Figure 1).

Background

Stantec submitted a draft Work Plan to the New York State Department of Environmental Conservation (Department) on September 10, 2003 for a sub-slab soil gas survey at the Comfort Inn located at 395 Buell Road. On September 24, 2003 you informed us on behalf of Frank Sowers, that we should proceed to contact the owner of the Comfort Inn property in order to request permission to conduct the sub-slab soil gas survey on their property. Additional comments from the Department on the draft work plan were formally issued in a letter dated October 10, 2003.

On October 7, 2003, Stantec spoke to Mr. Bruce Sahs of Hudson Hotels, who works for Mr. Robert Liu, the owner of the Comfort Inn Property, 395 Buell Road (Figure 1). Stantec explained the need for the Sub-Slab Soil Gas Survey at the Comfort Inn property and what it would involve, and forwarded a letter dated October 7, 2003 to Mr. Liu c/o Mr. Sahs along with a permission form for signature and return.

On October 16, 2003, Stantec received the signed permission form to conduct the building survey. Along with that form was a request for an Access Agreement and a Certificate of Insurance. Stantec subsequently forwarded an Access Agreement and the Insurance Certificate to Hudson Hotels and received the executed Access Agreement on October 22, 2003.

On October 27, 2003, Stantec contacted Mr. Christopher Burns, Executive Vice-President of Hudson Hotels Corporation, to schedule an initial site visit as a precursor to the Sub-Slab Soil Gas Survey at the Comfort Inn. With the assistance of Mr. Burns, Stantec coordinated an initial

Mr. Bart Putzig, P.E. September 24, 2004 Page 2 of 6

site walk-through with Mr. Frank Sowers (Department), Mr. Joe Albert (MCDOH), Mr. Gary Lawton (Buell Automatics) and the hotel manager, Ms. Carmen Medina (Comfort Inn).

The initial building walk-through occurred on October 30, 2003. Messrs. Dave Belaskas and Pete Smith represented Stantec. Mr. Wayne Naylor, maintenance supervisor, provided access to areas of interest within the hotel. Prior to the walk-through, Stantec had contacted the Town of Gates Building Department and Fire Marshal for any available drawings, plans or records for 395 Brooks Avenue. However, no such records were available. In addition, Mr. Naylor had no such plans.

The hotel consists of two buildings connected by a walkway (Figure 2). The main building is situated in an east-west orientation near the northerly property boundary. The main building is a two-story concrete block structure containing the hotel lobby, offices, guest rooms and a small basement maintenance office/utility room. The basement utility room is located under the eastern end of the building along the northern wall.

Building construction is slab-on-grade, except for the basement area. The basement utility room is a floating slab with concrete block walls. Underground public utilities observed in the utility room included gas, water and sewer. A gas-fired boiler is used for domestic hot water only. All other heating and ventilation in the building is via individual room console units. No central HVAC system is present.

The utility room in the basement contained storage for various cleaning agents (carpet shampoo, drain cleaners) including a product called Orange Sol, a degreasing solvent. Other products included paint, plaster and miscellaneous maintenance items. These containers were compiled in a preliminary product inventory.

Upon access to the building, air quality was screened using a calibrated HNu photoionization detector (PID) equipped with an 11.8 eV lamp. Background air quality was measured in the exterior stairwell outside the utility room. Air was screened just above significant cracks in the floor in the utility room; utility wall penetrations; and sumps. No PID readings above background measurements were noted.

Two sumps were observed at the time of the October 30, 2003 walk through. Sump #1 is in the stairwell leading to the utility room (along the north wall), and Sump #2 is in the southwest corner of the basement utility room along an interior wall. Their approximate locations are depicted on Figure 2. Both sumps contained water with operational sump pumps. Mr. Naylor noted that Sump #1 runs regularly and cycles more frequently during rainfall events. The interior sump (Sump #2) runs less frequently.

Stantec entered hotel guest rooms 128 and 122 on the north side of the ground floor towards the west end of the building. This area was chosen based upon interpreted groundwater flow vectors that extend from the impacted portion of the Buell Automatics property toward the west end of the building. Guest rooms 128 and 122 and the exit between Rooms 114 and 116 were screened with the PID. No PID readings above background measurements were noted.

At the conclusion of the initial building walk through, the agencies requested that water samples be collected and analyzed from the sumps in the basement utility room. In addition, it was requested that two indoor air samples and two sub-slab soil gas samples be collected from a westerly guest room and the basement utility room. In addition, an ambient air sample was requested from outside the building for background purposes.

Mr. Bart Putzig, P.E. September 24, 2004 Page 3 of 6

During a November 4, 2003 telephone conversation with Mr. Sowers, it was agreed that the Department and the DOH would be willing to allow modification of the scope of the sump water sampling program in the Comfort Inn basement utility room by reducing the Quality Assurance/Quality Control (QA/QC) requirements that will be needed. Specifically, QA/QC reporting requirements were reduced from ASP protocols to standard reporting requirements as per SW846 using EPA Method 8260. However, the DOH requested that both sub-slab vapor testing and indoor air quality testing be performed in both the basement utility room and a room on the west end of the building. Stantec revised the Work Plan to reflect the changes to the QA/QC requirements for the Sub-Slab Soil Gas Survey at the Comfort Inn and submitted it on December 31, 2003, subsequent to the execution of the Brownfield Cleanup Agreement.

The Department responded on January 15, 2004 and indicated that "based upon the information and representations given in the Work Plan and verbal representations from Stantec that each Summa Canister will be equipped with an in-line vacuum gauge, the Work Plan is hereby approved."

Field Activities

Sump Water Sampling

Two groundwater sump samples were collected by Stantec from the Comfort Inn basement utility room on January 26, 2004. Messrs. Frank Sowers (Department) and Joe Albert (MCDOH) were present. Each sump was screened with a PID; neither sump yielded readings above background levels. Water in each sump was evacuated prior to sampling by manually activating each sump pump. Samples BU-SW1-W and BU-SW2-W were collected from Sump #1 and Sump #2, respectively, and forwarded with trip blanks to Columbia Analytical Services (CAS) for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8260.

Sub-Slab Soil Gas Sampling

Sub-slab soil gas sampling was performed by Stantec at the Comfort Inn between January 26 – 28, 2004. Messrs. Frank Sowers and Joe Albert were present at the time of sampling. Holes were drilled through the concrete floors in the basement utility room and in Room 124 on January 26, 2004. Room 122, as specified in the work plan, was unavailable. Therefore, sampling was performed in adjacent Room 124. Following the penetration of the floor, ¼-inch HDPE tubing was installed with non-shrinking hydraulic cement at each location. Tubing was then plugged with a metal screw and allowed to equilibrate for approximately 48 hours.

Stantec returned to perform air sampling on January 28, 2004. The initial product inventory, that was compiled for the basement utility room, was updated at this time at the request of MCDOH. A summary of the product inventory is presented in Table 1. Soil gas sample SG-1 and building air sample BA-1 were collected in Room 124. Soil gas sample SG-2 and building air sample BA-2 were collected in the basement. Background air sample BK-1 was collected outside, north of the building, at the west end of the Comfort Inn parking lot (upwind). All samples were collected over a period of approximately two hours and monitored with in-line gauges. With the exception of SG-2, each summa canister had an initial vacuum reading of approximately 30 inches of Hg. SG-2, however, had an initial reading of 16 inches of Hg. The CAS Air Quality lab in California subsequently determined that the gauge used for SG-2 was operating properly and therefore, at the request of the DEC, SG-2 and co-located sample BA-2 were scheduled for re-sampling.

Mr. Bart Putzig, P.E. September 24, 2004 Page 4 of 6

The re-sampling of the basement air samples was performed by Stantec on Friday, February 6, 2004 using the same methods and tubing which had been plugged and left in place previously. Mr. Frank Sowers was present at the time of sampling. Soil gas sample SG-2A and building air sample BA-2A were collected in the basement over a period of approximately two hours and monitored with in-line gauges.

All summa canister samples were submitted to Columbia Analytical Services Air Quality Laboratory in Simi Valley, California, a New York State-approved laboratory (NY Lab. Id No: 11221). Analysis was requested to be performed by USEPA Method TO-15 for the following site-specific VOCs: Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethane (1,1-DCA), and Vinyl Chloride (VC). Based upon initial sump water sample results, the list of reported compounds for air was expanded to include Tetrachloroethene (also known as Perchloroethene or PCE) and trans-1,2-Dichloroethene (trans-1,2-DCE).

Analytical Results

Sump Water

Analytical sump water results from the Comfort Inn are summarized in Table 2. A copy of the laboratory analytical reports are presented in Appendix A.

Three TCL VOCs were reported in both of the basement utility room sump water samples submitted for analysis: PCE, TCE and trans-1,2-DCE. The three compounds were reported at concentrations ranging from 67 micrograms per liter (ug/l) to 120 ug/l. Each of the reported concentrations of the three compounds were higher than their respective NYSDEC Class GA groundwater standards (5 ug/l for each compound).

Unexpectedly, the most abundant compound reported in the sump water is PCE (100-120 ug/l), a dry-cleaning solvent. PCE has not been reported originating in groundwater at Buell Automatics. TCE, although the predominant compound present at the Buell Automatics site, also is commonly found as a breakdown product of PCE. Similarly, trans-1,2-DCE, is also commonly found as a breakdown product of PCE, and has only been reported at very low levels in groundwater at the Buell Automatics site.

Based upon the product inventory for the Comfort Inn (see Table 1), it does not appear that the products and chemicals that are presently stored in the basement at the Comfort Inn are the source of the PCE. It should also be noted that the higher concentrations were reported in sump water sample BU-SW-2-W which was collected from Sump #2, located in the southwest corner of the utility room along an interior wall. Lower concentrations were reported from Sump #1 located in the stairwell leading to the utility room along the exterior north wall.

Soil Gas and Ambient Air

Analytical soil gas and ambient air results from the Comfort Inn are summarized in Table 3. The laboratory was able to attain Method Reporting Limits (MRLs) of <1.0 ug/m³, which are comparable to those typically achieved for indoor air samples for all but one of the summa canister samples. Contaminant levels reported in the sub-slab sample SG-2A, which was collected in the basement utility room, resulted in higher MRLs.

Mr. Bart Putzig, P.E. September 24, 2004 Page 5 of 6

Three of the five air samples (SG-1, SG-2A and BA-2A) were reported to contain detectable concentrations of target VOCs. No detectable concentrations of target compounds were reported for BA-1 and BK-1. According to the NYSDOH, guidance values for sub-slab air quality and ambient air quality data are currently under review and the reported occurrences of target VOCs will be evaluated on a case by case basis.

A total of four VOCs were reported in the air samples that were submitted for analysis: PCE, TCE, cis-1,2-DCE; and trans-1,2-DCE. Once again, PCE was reported at the highest concentration. PCE was reported in both soil gas samples and also in the ambient air sample BA-2A from the basement. The concentration of PCE in sub-slab soil gas was reported to range from 0.79 micrograms/cubic meter (ug/m³) in SG-1 collected beneath Room 124 to 21,000 ug/m³ in SG-2A collected beneath the basement utility room. PCE was reported in ambient air in BA-2A in the basement utility room at 1.1 ug/m³.

TCE was reported in both sub-slab, soil gas samples. The concentration of TCE in sub-slab soil gas was reported to range from 4.3 ug/m³ in SG-1 collected beneath Room 124 to 9,900 ug/m³ in SG-2A collected beneath the basement utility room. No TCE was reported above detection limits in either of the building air samples.

Both cis-1,2-DCE and trans-1,2-DCE were reported to be present in only the basement utility room sub-slab soil gas sample SG-24.

With the exception of the reported presence of cis-1,2-DCE, the sub-slab soil gas data appear to reflect the contaminants that are reported in the basement sump water samples. Similar to the sump water data, it appears that a source of PCE, unrelated to the Buell Automatics site, has resulted in the majority, if not all of the impacts observed beneath, and within the basement utility room.

Conclusions

A low level TCE concentration (4.3 ug/m3) has been reported in the sub-slab soil gas sample (SG-1) collected beneath the west end of the Comfort Inn building. However, no contaminants were reported above detection limits in the corresponding building air sample. As a result, the Buell Automatics site does not appear to be adversely affecting air quality within the breathing zone on the west end of the Comfort Inn building, which is downgradient from the Buell Automatics site.

The survey yielded unexpected findings of PCE in sump water samples, sub-slab soil gas and the building air sample within the basement utility room. The higher sump water concentrations were reported in sample BU-SW2-W which was collected from Sump #2, located in the southwest corner of the utility room along an interior wall. Lower sump water concentrations were reported from Sump #1 located in the stairwell leading to the utility room along the exterior north wall.

Given the available information, Buell Automatics is not the likely source of the reported PCE related impacts. Therefore, Buell Automatics does not believe that it should be responsible for additional investigations or remedial measures associated with the PCE related impacts at the Comfort Inn building.

Mr. Bart Putzig, P.E. September 24, 2004 Page 6 of 6

Should you have any questions or require further information, I would welcome your calls at 585-475-1440, ext. 760.

Sincerely,

Michael P. Storonsky Senior Associate

Enclosures:

Figures

Figure 1 – Aerial Photo of Comfort Inn, 395 Buell Rd.

Figure 2 - Sample Location Plan

Tables

Table 1 - Comfort Inn Product Inventory

Table 2 – Summary of Sump Water Sampling Results

Table 3 - Summary of Sub-Slab and Ambient Air Quality Results

Appendices

Appendix A - Analytical Laboratory Reports

cc: Frank Sowers, P.E. (NYSDEC - Avon)

Andrew English (NYSDEC - Albany)

James Charles Esq. (NYSDEC – Buffalo)

Gary Litwin (NYSDOH - Troy)

Mark Van Valkenberge (NYSDOH - Troy)

Joseph Albert (MCDOH - Rochester)

Ralph Van Houton (NYSDOH - Rochester)

Richard Lawton (Buell Automatics)

Jerry Greenfield, Esq. (Chamberlain, D'Amanda, Oppenheimer & Greenfield)

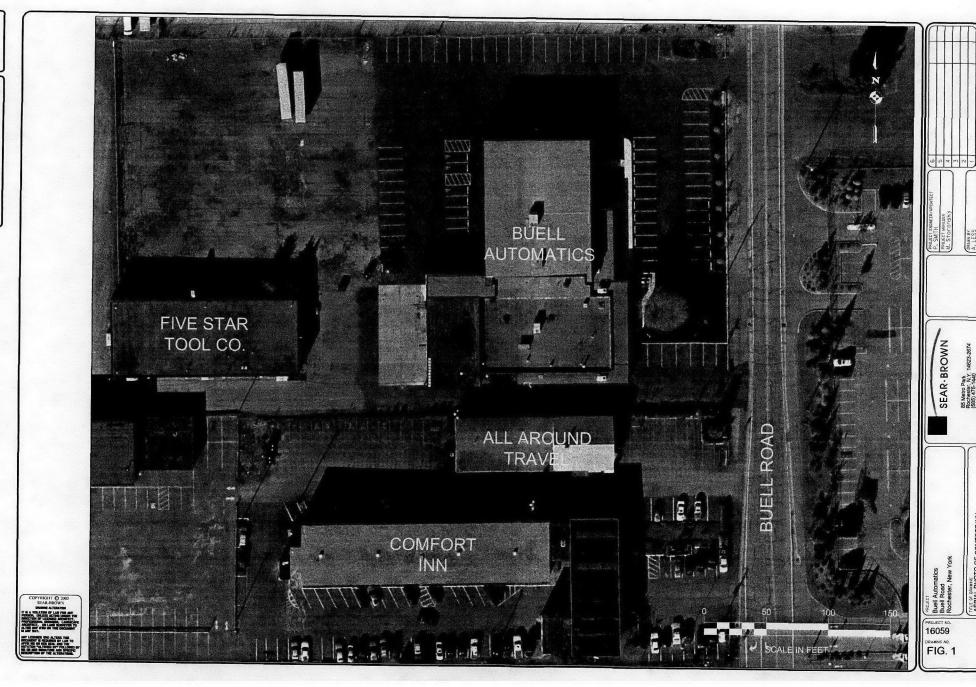
Linda Shaw, Esq. (Knauf Shaw LLP)

File

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Profile. Land Sepring. Node: PCGn77

Plotting Parameters
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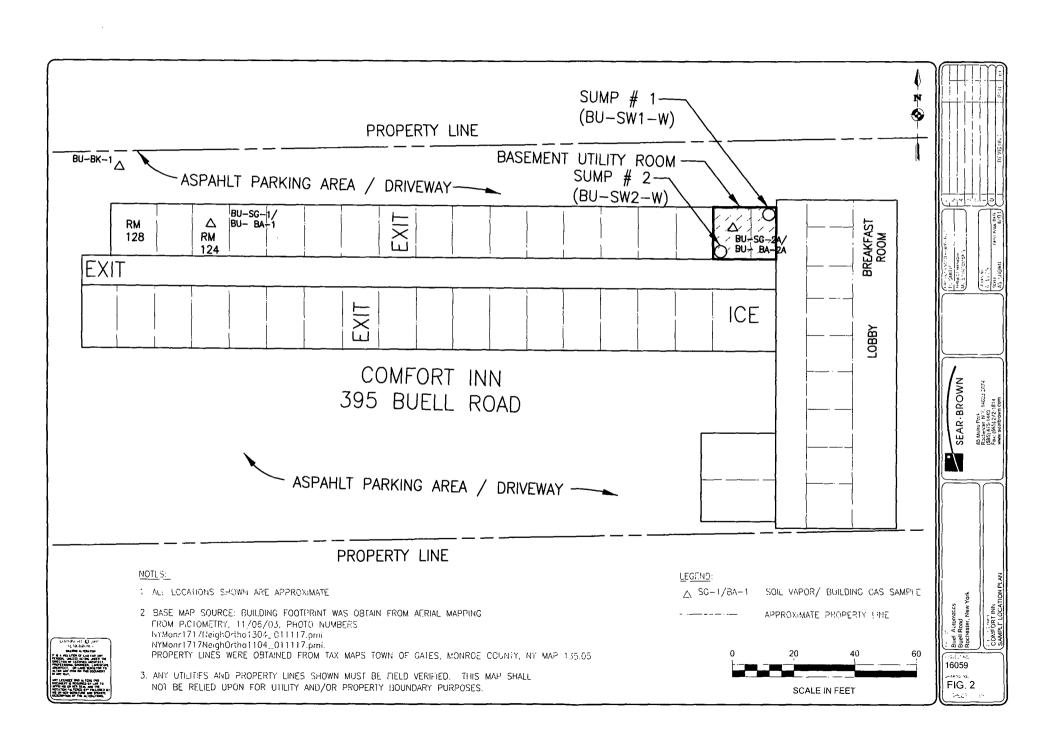


TABLE 1 COMFORT INN PRODUCT INVENTORY

January 28, 2004

395 Buell Road Rochester, NY

- 5-gallon All Purpose Joint Compound
- 2. Two 1-gallon Latex Paint cans
- 3. 1 pt. container of wood finish (minwax)
- 4. 1 pt. Container of wood finish (minwax)
- 5. 1 qt. Latex paint
- 6. 1 qt. Bathroom mildew paint
- 7. 1 qt. Spackling paste
- 8. 1 qt. Rustoleum paint
- 9. 1-gallon can stain
- 10. 1/2 bag dry adhesive
- 11. 1 bag sand finish additive
- 12. 1-gallon wall covering adhesive
- 13. 1-gallon swift set sand mix
- 14. 1 qt. Wood patch
- 15. Two 1-gallon containers Durabond 45
- 16. 1-gallon wall covering adhesive
- 17. 1-gallon all purpose joint compound
- 18. 1 pt. Wall paper stripper
- 19. 1 pt. Accelerator
- 20. 1 pt. Acrylic grout additive
- 21. 1 pt. Wood finish
- 22. 1 bag floor grout
- 23. 8 oz. grout cleanup concentrate
- 24. Two 5-gallon containers latex paint
- 25. Eight (8) aerosol paint containers
- 26. Fifteen (15) all purpose batteries
- 27. 1 pt. Stain remover
- 28. Twenty-seven (27) caulk/adhesive tubes
- 29. 1-gallon latex paint
- 30. 1.5 oz. Box of Decon (mice killing pellets)
- 31. 2 oz. Contact cement
- 32. 2 oz. 3-in-1 motor oil
- 33. 16 oz. Multi-purpose rug sealant
- 34. 4 oz. All purpose cement
- 35. 1 pt. Caulk
- 36. 8 oz. WD-40
- 37. 8 oz. Cleaner (aerosol)
- 38. 4 oz. Rubber cement

- 39. 8 oz. WD-40
- 40. 12 oz. Drylock masonry etch cleaner
- 41. 12 oz. WD-40
- 42. 2 oz. Enviro-duster (air duster) (aerosol)
- 43. 10 oz. Aerosol paint container
- 44. 10 oz. Aerosol paint container
- 45. ½ pt. Wood patch
- 46. 4 oz. Plaster enamel
- 47. 1 qt. Cleaning alcohol
- 48. Five (5) 10 oz. aerosol paint cans
- 49. 14 oz. Plumber's putty
- 50. Two (2) 15 oz. Aerosol fly killing containers
- 51. 16 oz. Wasp and yellow jacket killer aerosol
- 52. 2 oz. Superwrench penetrant cleaner
- 53. 8 oz. Oil-based enamel
- 54. 1 qt. Paint
- 55. 1-gallon Bio-clean (environ. friendly bacteria eliminator)
- 56. 12 oz. Foam sealant
- 57. 32 oz. Muriatic acid
- 58. Two 1-gallon car wax
- 59. Two 1-gallon carpet sanitizer
- 60. 1-gallon spot remover carpet cleaner
- 61. 1-gallon solvent cleaner
- 62. 1-gallon detergent cleaner
- 63. 1-gallon latex paint
- 64. Two 1-gallon carpet cleaner concentrate
- 65. 1 lb. concrete finisher
- 66. 1-gallon liquid bonding admixture (for concrete setting process)
- 67. Seven (7) containers of 409/windex/resolve mixtures
- 68. Two 16 oz. professional strength drain opener
- 69. 10 oz. bleach
- 70. Two 1-gallon containers stain remover
- 71. 1-gallon latex paint
- 72. Sixteen bags of salt pellets

TABLE 2 SUMMARY OF SUMP WATER SAMPLING RESULTS

Comfort Inn Rochester, NY

	SU	MP WATER SAMP	LES	NYSDEC Groundwater
Parameter	BU-SW1-W	BU-SW2-W	TRIP BLANK	Standards and Guidance Values (1)
Acetone	20 U	20 U	20 U	50 (G)
Benzene	5.0 U	5.0 U	5.0 U	1
Bromodichloromethane	5.0 U	5.0 U	5.0 U	50 (G)
Bromoform	5.0 U	5.0 U	5.0 U	50 (G)
Bromomethane	5.0 U	5.0 U	5.0 U	5
2-Butanone	10 U	. 10 U	10 U	NS
Carbon Disulfide	10 U	10 U	10 U	60 (G)
Carbon Tetrachloride	5.0 U	5.0 U	5.0 U	5
Chlorobenzene	5.0 U	5.0 U	5.0 U	5
Chloroethane	5.0 U	5.0 U	5.0 U	5
Chloroform	5.0 U	5.0 U	5.0 U	7
Chloromethane	5.0 U	5.0 U	5.0 U	NS
Dibromochloromethane	5.0 U	5.0 U	5.0 U	50 (G)
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	1
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5
trans-1,2-Dichloroethene	<u>69</u>	89	5.0 U	5
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	0.4 (-cis and -trans)
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	0.4 (-cis and -trans)
Ethylbenzene	5.0 U	5.0 U	5.0 U	5
2-Hexanone	10 U	10 U	10 U	50 (G)
Methylene Chloride	5.0 U	5.0 U	5.0 U	5
4-Methyl-2-Pentanone	10 U	10 U	10 U	NA
Styrene	5.0 U	5.0 U	5.0 U	5
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5
Tetrachloroethene	100	120	5.0 U	5
Toluene	5.0 U	5.0 U	5.0 U	5
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5
1.1.2-Trichloroethane	5.0 U	5.0 U	5.0 U	1
Trichloroethene	67	100	5.0 U	5
Vinyl Chloride	5.0 U	5.0 U	5.0 U	2
o-Xylene	5.0 U	5.0 U	5.0 U	5 (total xylenes)
m/p-Xylenes	5.0 U	5.0 U	5.0 U	5 (total xylenes)

Notes

- 1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
- 2. All results are expressed in micrograms per liter (ug/L), which is equivalent to parts per billion (ppb).
- 3. Bold-faced values are samples that have been detected.
- 4. **Bold-faced**, <u>Underlined</u>, and <u>Italicized</u> values are samples that have been detected and exceed the Class GA groundwater standards and guidance values.
- 5. "J" indicates an estimated value.
- 6. (G) indicates guidance value.
- 7. NA indicates the POC groundwater standard is Not Applicable.
- 8. "U" indicates that the analyte was analyzed but not detected.
- 9. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 10. NS = No Standard.

TABLE 3 SUMMARY OF SUB-SLAB AND AMBIENT AIR QUALITY SAMPLING RESULTS Comfort Inn Rochester, NY

		SC	;-1	:		BA	·-1			sG-	2A	ĺ		BA	-2.A	i		Вк	i-1	
VOC Compounds	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Result µg/m³	MRI. μg/m³	Result ppbV	MRI. pphV	Result μg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Result µg/m³	MRL μg/m³	Result ppbV	MRI. ppbV	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV
																				T
Vinyl Chloride	ND	0.71	ND.	0.28	ND.	0.74	- ND	0.29	ND	130	ND	52	ND	0.68	ND	0.27	ND	0.63	ND	0.24
1.1-Dichloroethane	ND	0.71	ND	0.17	ND	0.74	, ND	0.18	ND	130	ND	33	ND	0.68	ND	0.17	ND	0.63	ND	0.15
cis-1,2-Dichloroethene	ND	0.71	ND	0.18	ND	0.74	ND	0.19	5,200	130	1,300	33	ND	0.68	ND	0.17	CIN	0.63	ND	0.16
trans-1,2-Dichloroethene	ND	0.71	ND	0.18	ND	0.74	ND	0.19	160	130	41	33	ND	0.68	ND	0.17	ND	0.63	ND	0.16
Trichloroethene	4.3	0.71	0.80	0.13	ND	0.74	ND	0.14	9,900	130	1,800	25	ND	0.68	ND	0.13	ND	0.63	ND	0.12
Tetrachloroethene	0.79	0.71	0.12	0.10	ND	0.74	ND	0.11	21,000	130	3,100	19	1.1	0.68	0.16	0.10	ND	0.63	ND	0.09

Notes:

- ND = Compound was analyzed for, but not detected above the method reporting limit.
 MRI = Method Reporting Limit The minimum quantity of a target analyte that can be confidently determined by the referenced method.
 Samples analyzed by EPA Method TO-15.



A FULL SERVICE ENVIRONMENTAL LABORATORY

February 17, 2004

RECEIVED

Mr. Peter Smith Sear-Brown Group 85 Metro Park FEB 2 1 2004

Rochester, NY

SEAR-BROWN

PROJECT: BUELL AUTOMATICS #16059

14623

Submission #:R2419990

Dear Mr. Smith

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Project Manager

Enc.



1 Mustard ST. Suite 250 Rochester, NY 14609 (585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Sear-Brown Group

Project Reference: BUELL AUTOMATICS #16059

Lab Submission # : R2419990

Project Manager : Karen Bunker

Reported : 02/17/04

Report Contains a total of 14 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

Ĺ

CASE NARRATIVE

COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2419990

<u>Lab ID</u>	Client ID
704203	BU-SW1
704204	BU-SW2
704205	Trip Blank

Water samples were collected by Sear Brown on 1/26/04 and received at CAS on the same day. All samples were received at a cooler temperature of 2°C. Custody seals were intact on the cooler upon receipt.

VOLATILE ORGANICS

Two (2) waters and (1) Trip Blank were analyzed using SW-846 method 8260B for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 14 day holding time for the method.

Run QC is included in the report. All Blank Spike recoveries were within acceptance limits.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for this analysis. The up to 15 of the largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. "D" flags indicate an additional dilution was analyzed. No hits were found for any of these samples.

The Laboratory Method Blank and Trip Blank were free of contamination from Target Compounds and TIC's.

No problems were encountered during the analysis of these samples.







ORGANIC QUALIFIERS

- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- X As specified in Case Narrative.
- * This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited New York ID # 10145 New Jersey ID # NY004 New Hampshire ID # 294100 A/B Pennsylvania Registration 68-786 Rhode Island ID # 158 South Carolina ID #91012 West Virginia ID # 292

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/17/04

Sear-Brown Group

Project Reference: BUELL AUTOMATICS #16059 Client Sample ID: BU-SW1

Date Sampled:	01/26/04	08:45 Order #:	704203	Sample Matrix:	WATER
Date Received:	01/26/04	Submission #:	R2419990	Analytical Run	100405

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 01/30/0	4		
ANALYTICAL DILUTION: 1	.00		
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 Ŭ	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	69	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 Ŭ	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 Ŭ	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	100	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	67	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	101	%
TOLUENE-D8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	111	્ર

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: cas	/roch		Contract: S	SEARB	BU-SI	N1
Lab Code: 101	45	Case No.: R4-19990	SAS No.:	SI	DG No.:	
Matrix: (soil/water	r) WATE	<u> </u>	Lab S	Sample ID:	704203 1.0	
Sample wt/vol:	5.0	(g/ml) <u>ML</u>	Lab F	ile ID:	B3671.D	
Level: (low/med)	LOW		Date	Received:		
% Moisture: not d	lec		Date	Analyzed:	01/30/04	
GC Column: db	-624_ ID:	0.32 (mm)	Dilutio	on Factor:	1.0	
Soil Extract Volum	ne	(uL)	Soil A	Aliquot Volu	me:	(uL)
		CON	CENTRATIC	N UNITS:		
Number TICs four	nd: 0	(ug/L	. or ug/Kg)	UG/L		
CAS NO.	COMP	OUND	F	RT ES	T. CONC.	Q

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/17/04

Sear-Brown Group
Project Reference: BUELL AUTOMATICS #16059
Client Sample ID: BU-SW2

Date Sampled:	01/26/04	08:50 Order	#:	704204	Sample Matrix:	WATER
Date Received:	01/26/04	Submission	#:	R2419990	Analytical Run	100405
		···				

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 01/30/0 ANALYTICAL DILUTION: 1	4.00		
ACETONE BENZENE BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE 2-BUTANONE (MEK) CARBON DISULFIDE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE CIS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE 2-HEXANONE METHYLENE CHLORIDE 4-METHYL-2-PENTANONE (MIBK) STYRENE 1,1,2,2-TETRACHLOROETHANE TETRACHLOROETHENE TOLUENE 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHENE VINYL CHLORIDE	20 5.0 5.0 5.0 5.0 10 10 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	20 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L
O-XYLENE M+P-XYLENE	5.0 5.0	5.0 U 5.0 U	UG/L UG/L
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE TOLUENE-D8 DIBROMOFLUOROMETHANE	(83 - 118 %) (88 - 124 %) (87 - 115 %)	101 99 110	% % %

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

		TENTAT	IVELY IDENT	IFIED COMP	POUNDS			
Lab Name:	cas/roch	<u> </u>		Contrac	t: SEAF	RB	BU-S	W2
Lab Code:	10145	Ca	se No.: <u>R4-19</u>	990 SAS	No.:	\$0	OG No.:	
Matrix: (soil/v	vater)	WATER	_		Lab Sam	ple ID:	704204 1.0	
Sample wt/vo	ol:	5.0	(g/ml) ML		Lab File I	D:	B3672.D	
Level: (low/n	ned)	LOW	- -		Date Rec	eived: _	·	
% Moisture: r	not dec.				Date Ana	lyzed:	01/30/04	
GC Column:	db-624	ID: 0	32 (mm)	-	Dilution F	actor:	1.0	
Soil Extract V	olume_		(uL)	;	Soil Aliqu	ot Volur	me:	(uL)
Number TICs	found:	0		CONCENTR (ug/L or ug/k				
CAS NO.		COMPO	JND		RT	EST	r. conc.	Q

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/17/04

Sear-Brown Group

Project Reference: BUELL AUTOMATICS #16059

Client Sample ID : TRIP BLANK

Date Sampled:	01/26/04	Order #:	704205	Sample Matrix:	WATER
Date Received:	01/26/04	Submission #:	R2419990	Analytical Run	100405

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 01/30/04			
ANALYTICAL DILUTION: 1.00)		
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 Ŭ	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE 1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE			
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE (83 - 118 %)	102	96
	88 - 124 왕)	100	ૄ
DIBROMOFLUOROMETHANE (87 - 115 %)	111	ે

1E VOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

	TENTATIVELY IDENTIFIE	D COMPO	UNDS			
Lab Name: cas/roch		Contract:	SEARB		TRIP	BLK
Lab Code: 10145	Case No.: R4-19990	SAS No).:	 _ SDG	6 No.:	
Matrix: (soil/water)	WATER_	La	b Sample	D: <u>7</u> 0	04205 1.0	
Sample wt/vol:	5.0 (g/ml) ML	_ Lai	b File ID:	В	3670.D	
Level: (low/med)	LOW	Da	te Receiv	/ed:		
% Moisture: not dec.		Da	te Analyz	ed: 01	/30/04	
GC Column: db-624	ID: <u>0.32</u> (mm)	Dile	ution Fac	tor: <u>1.</u>	0	
Soil Extract Volume _	(uL)	Soi	l Aliquot	Volume):	(uL)
	CON	NCENTRAT	ION UNI	TS:		
Number TICs found:	0 (ug/	L or ug/Kg)	UG/	<u>L</u>	-	
CAS NO.	COMPOUND		RT	EST.	CONC.	Q

VOLATILE ORGANICS METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 706905	ANALYTICAL RUN # : 100405		
ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 01/30/04 ANALYTICAL DILUTION: 1.0			
ANALYTICAL DILUTION: 1.0 ACETONE BENZENE BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE 2-BUTANONE (MEK) CARBON DISULFIDE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE CIS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROPROPENE CIS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE 2-HEXANONE METHYLENE CHLORIDE 4-METHYL-2-PENTANONE (MIBK) STYRENE 1,1,2,2-TETRACHLOROETHANE TETRACHLOROETHENE TOLUENE	20.0 20.0	105 87 103 100 90 102 107 88 85 88 95 91 97 90 105 83 93 82 88 92 95 83 100 97 103 84 93 82 84	50 - 150 70 - 130 70 - 130 70 - 130 50 - 150 50 - 150 70 - 130
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHENE VINYL CHLORIDE O-XYLENE	20.0 20.0 20.0 20.0 20.0	83 95 84 83 83	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130
M+P-XYLENE	40.0	83	70 - 130

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/17/04

Project Reference:
Client Sample ID : METHOD BLANK

	Sampled : Received:	Order Submission	#: 706904 #:	Sample Matrix: Analytical Run	
ANA	LYTE		PQL	RESULT	UNITS
	E ANALYZED : LYTICAL DILUTION:	01/30/04			
BROMBROM 2-BU CARBO CARBO CHLOS CHLOS CHLOS TRANS 1,2-I CIS-STRANS 2-HES TRANS 2-HES TRANS 1,1,2 TETRA TOLUMBLE TRICK TRICK VINYI O-XYI	ENE ODICHLOROMETHANE OFORM OMETHANE TANONE (MEK) ON DISULFIDE ON TETRACHLORIDE ROBENZENE ROETHANE ROFORM ROMETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHENE 1,2-DICHLOROETHENE 5-1,2-DICHLOROETHE DICHLOROPROPANE 1,3-DICHLOROPROPE S-1,3-DICHLOROPROPE S-1,3-DICHLOROPROPE LBENZENE XANONE YLENE CHLORIDE THYL-2-PENTANONE (ENE 2,2-TETRACHLOROETH ACHLOROETHENE ENE 1-TRICHLOROETHANE L-TRICHLOROETHANE HLOROETHENE C-TRICHLOROETHANE HLOROETHENE C-TRICHLOROETHANE C-TR	NE ENE MIBK)	20 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	20 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L
SURF	ROGATE RECOVERIES	QC L	IMITS		
TOLUE	DMOFLUOROBENZENE ENE-D8 DMOFLUOROMETHANE		- 118 %) - 124 %) - 115 %)	102 101 110	00 00 00

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

1E

EPA SAMPLE NO.

TENTATIVEET IDENTIFIED CONF CONDO							
Lab Name: cas	s/roch		Contract:	SEARE	3	METE	3LK
Lab Code: 10	145	Case No.: R4-19990	SAS No).:	SDO	3 No.:	
Matrix: (soil/wate	er) WATE	R	Lal	b Sample	e ID: <u>m</u>	net blk	
Sample wt/vol:	5.0	(g/ml) ML	Lal	b File ID:	: <u>B</u>	3662.D	
Level: (low/med)) LOW		Da	te Recei	ved:		
% Moisture: not o	dec		Da	te Analyz	zed: <u>0</u>	1/30/04	
GC Column: dl	b-624 ID:	0.32 (mm)	Dili	ution Fac	tor: <u>1.</u>	0	
Soil Extract Volu	me	(uL)	Soi	l Aliquot	Volum	e:	(uL)
Number TICs fou	ind: 0		NCENTRAT L or ug/Kg)		-	_	
CAS NO.	COMF	POUND		ŔŢ	EST.	CONC.	Q



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR#		
CAS Contr		

Project Name BUELL Automa Project Manager	has Project Number	0059	ì		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																		
PURE TOTAL	: / ()	<u>_</u>			PRE	SERV							_		1								
Company Address Secri-Brawn	J						/	/	 	/	/ 	/	} /	/ /		/ 	/- _	} _ ,	/ 	} /	Pre	servative K	еу
85 metro f	Zuck_		-		NERS										34 /						1. 2.	NONE HCL HNO ₃ H ₂ SO ₄ NaOH	
Rochester, Ny 14623				CONTAINERS		/ 8		a/ 5			2 3			\$/						/ 5.	NaOH Zn. Acetate MeOH	Э	
585-475-14402	FAX# 555-4	24-4	5951		J OF C	/	1.8 L	25. 13.50	09/10			74 S	SSOL	シスと	7	/ ,	/ ,	/ ,	/ ,	/ /	` 7.	NaHSO ₄ Other	
Sampiére Signature Mülli / Mu	Sui Sunpler's Printed Nam	mei	595 1 ver/fc	ter San				200			007			23/									
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAM	PLING TIME	MATRIX	,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9280 704's 90,MS 764 70.7		FEST P											/ ,,,	REMA	.RKS/ ESCRIPTIO	
BU-SW1	704303	1-26-64		W	3								X							AL	IERNAIE L	ESCHIPTIO	N
BU-SW2 Trip bknk	704204	1-26-04	0850	W	3					-			X										
· · · p isturje	704400			W	3							-	X										
Circler blank			-	W	(
		_			_												-						
SPECIAL INSTRUCTIONS/COMMENTS							TU	DNADO	OLINIO I	REQUI	DEMEN	TC		DED	NOT D				_				
Metals								RUSH	(SURCI	HARGES	S APPLY)		HEPC I. Resul		:QUIHE	EMENT	S		INVC	ICE INFO	RMATION	
							/	4 hr _ STANI		8 hr _	5	day	X	II. Resu (LCS, D			aries s require	d)	PO#	110	059		
							REQUE			E				III. Rest		C and C	alibration	ı	BILL	Mik	e St	orons	
							REQUES	STED R	EPORT	DATE				IV. Data		ion Repo	ort with F	law Data	,	35 (nom	tt.	/
See QAPP	LER TEMP. 200							 .					-	V. Speid	,				1 /	40ch	15-121	NYIY	42
SAMPLE RECEIPT: CONDITION/COO	LER TEMP:			TODY SEAL		N			BECEN	VED BY	,						^	lo	SUB	MISSION F	199	19C)
ignature (1)	V of	_\ <u> </u>			<u> </u>			_						н	CLINQ	UISHE	אט ר				RECEIVED	RA ,	
Printed Name	Curried Name Of Control	Drin	nature nted Name				Signature Printed N						Signat	ure Name					Signa				
	Gregory U. Esmeri	AN Firm	n -			[Firm						Firm	- Naille					Printed Name				
Pale/Time CY 1530	Date/Time - 26-04 10:3	ν	e/Time				Date/Tim	ne	_	-		-	Date/T	ime					Date/	Time	******		
istribution: White - Return to Originator, Yellow	- Lab Copy; Pink - Retained by Clien	nt								-	***		_						上,	<u>~</u>	<u> </u>	SCOC-11	02-08

Cooler Receipt And Preservation Check Form

Project/Client	ear Brow	n		Submission Nur	nber	Rayig	990.	·
Cooler received on	1-26-64 by:_	ME_	_COI	JRIER: CAS	UPS	FEDEX	CD&L	CLIENT
 Were custod Did all bottl Did any VO Were Ice or Where did to 	ly seals on outside ly papers properly es arrive in good of A vials have signi Ice packs present he bottles originate e of cooler(s) upor	filled condition ficant :	out (in on (un air but	broken)?		YES YES YES YES CAS/RO	NO NO NO NO NO CLIE	N/A ENT
Is the tempe	rature within 0° -	6° C?:	(Yes Yes		Yes	Yes	Yes
If No, Expl				No No	1.	No	No	No
	Temperatures Take			26-04 @	1();	<u> 35 - </u>		
Thermomete	er ID: 161 or 6	IR GI	JN)	Reading From:	Temp	Blank o	r (Sam	ple Bottle
If out of Temperat	ure, Client Appr	oval to	Run	Samples				
	tie labels complete e labels and tags a				etc.)?	YES	NO NO	
	t containers used f : Cassettes / Tub ancies:	or the test inta	tests in ct	idicated?	rized	YES Tedlar®	NO Bags Infl	ated N/A
4. Air Samples	: Cassettes / Tub	or the test inta	tests in ct	idicated? Canisters Pressu			NO Bags Infl	ated N/A
4. Air Samples	: Cassettes / Tub	or the test inta	tests in	ndicated? Canisters Pressu		Tedlar®	NO Bags Infl	
4. Air Samples Explain any discrepa	: Cassettes / Tub	or the test inta	tests in	ndicated? Canisters Pressu		Tedlar®	NO Bags Infl	
4. Air Samples Explain any discrepa	: Cassettes / Tub ancies:	or the test inta	tests in	ndicated? Canisters Pressu		Tedlar®	NO Bags Infl	
4. Air Samples Explain any discreps	: Cassettes / Tub ancies: Reagent NaOH	or the test inta	tests in	ndicated? Canisters Pressu		Tedlar®	NO Bags Infl	
4. Air Samples Explain any discreps	: Cassettes / Tub ancies: Reagent NaOH HNO ₃	or the test inta	tests in	ndicated? Canisters Pressu		Tedlar®	NO Bags Infl	
4. Air Samples Explain any discreps	: Cassettes / Tub ancies: Reagent NaOH HNO ₃ H ₂ SO ₄	or the test inta	tests in	ndicated? Canisters Pressu		Tedlar®	NO Bags Infl	
4. Air Samples Explain any discrept pH 12 2 Residual Chlorine (+/-) 5-9** YES = All samples OK **If pH adjustment is requ VO (7)	Reagent NaOH HNO3 H ₂ SO ₄ for TCN & Phenol P/PCBs (608 only) NO = Sam aired, use NaOH and/or C Vial pH Verification ested after Analysis) Following Samples	YES Ples were H2SO4	NO	ndicated? Canisters Pressu	Re	Tedlar®	NO Bags Infla	
4. Air Samples Explain any discrept pH 12 2 Residual Chlorine (+/-) 5-9** YES = All samples OK **If pH adjustment is requ VO (7)	Reagent NaOH HNO3 H ₂ SO ₄ for TCN & Phenol P/PCBs (608 only) NO = Sam aired, use NaOH and/or C Vial pH Verification Tested after Analysis)	YES Ples were H2SO4	NO	Adicated? Canisters Pressu Sample I.D.	Re	Tedlar®	NO Bags Infla	

RESULTS OF ANALYSIS Page 1 of 1

Client:

Sear Brown

Client Sample ID: SG-2A

Client Project ID: Buell Automatics/16059

CAS Project ID: P2400261

CAS Sample ID: P2400261-001

Test Code:

EPA TO-15

Date Collected: 2/6/04

Instrument ID:

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Date Received: 2/9/04

Analyst:

Michelle Sakamoto

Date(s) Analyzed: 2/18/04

Sampling Media:

Summa Canister

Volume(s) Analyzed:

0.0050 Liter(s)

Test Notes:

Container ID:

SC00491

Pi 1 = -0.9 Pf 1 = 3.5

D.F. = 1.32

CAS#	Compound	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	130	ND	52	1
75-34-3	1,1-Dichloroethane	ND	130	ND	33	
156-60-5	trans-1,2-Dichloroethene	160	130	41	33	
156-59-2	cis-1,2-Dichloroethene	5,200	130	1,300	33	
79-01-6	Trichloroethene	9,900	130	1,800	25	
127-18-4	Tetrachloroethene	21,000	130	3,100	19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Verified By:	Date:	
	Davia	N'~

RESULTS OF ANALYSIS Page 1 of 1

Client:

Sear Brown

Client Sample ID: BA-2A

Client Project ID: Buell Automatics/16059

CAS Project ID: P2400261

CAS Sample ID: P2400261-002

Test Code:

Analyst:

EPA TO-15

Instrument ID:

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Michelle Sakamoto

Sampling Media:

Summa Canister

Test Notes:

Container ID:

AC00530

Date Collected: 2/6/04

Date Received: 2/9/04

Date(s) Analyzed: 2/18/04

Volume(s) Analyzed:

1.00 Liter(s)

Pi 1 = -1.3 Pf 1 = 3.5

D.F. = 1.36

CAS#	Compound	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.68	ND	0.27	
75-34-3	1,1-Dichloroethane	ND	0.68	ND	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	0.68	ND	0.17	
156-59-2	cis-1,2-Dichloroethene	ND	0.68	ND	0.17	
79-01-6	Trichloroethene	ND	0.68	ND	0.13	
127-18-4	Tetrachloroethene	1.1	0.68	0.16	0.10	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Verified By:	Date	e:
		Davis No.

RESULTS OF ANALYSIS Page 1 of 1

Client:

Sear-Brown

Client Sample ID: BA-1

Client Project ID: Buell Road - Comfort Inn/16059

CAS Project ID: P2400191

CAS Sample ID: P2400191-001

Test Code:

EPA TO-15

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Date Collected: 1/28/04 Date Received: 1/30/04

Instrument ID: Analyst:

Michelle Sakamoto

Date(s) Analyzed: 2/10/04

Sampling Media:

Summa Canister

Volume(s) Analyzed:

1.00 Liter(s)

Test Notes:

Container ID:

AC00042

Pi 1 =-2.3 Pf 1 = 3.5

D.F. = 1.47

CAS#	Compound	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.74	ND	0.29	
75-34-3	1,1-Dichloroethane	ND	0.74	ND	0.18	
156-60-5	trans-1,2-Dichloroethene	ND	0.74	ND	0.19	
156-59-2	cis-1,2-Dichloroethene	ND	0.74	. ND	0.19	
79-01-6	Trichloroethene	ND	0.74	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.74	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Verified By:	Date:
·	
	Page No.:

RESULTS OF ANALYSIS Page 1 of 1

Client: Sear-Brown

Client Sample ID: SG-1 CAS Project ID: P2400191

Client Project ID: Buell Road - Comfort Inn/16059 CAS Sample ID: P2400191-003

Test Code:

EPA TO-15

Date Collected: 1/28/04

Instrument ID:

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Date Received: 1/30/04

Analyst: Sampling Media: Michelle Sakamoto Summa Canister Date(s) Analyzed: 2/10/04 Volume(s) Analyzed:

1.00 Liter(s)

Test Notes:

Container ID:

SC00394

Pi 1 = -1.8

Pf 1 = 3.5

D.F. = 1.41

CAS#	Compound	Result μg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.71	ND	0.28	
75-34-3	1,1-Dichloroethane	ND	0.71	ND	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	0.71	ND	0.18	
156-59-2	cis-1,2-Dichloroethene	ND	0.71	_ ND	0.18	
79-01-6	Trichloroethene	4.3	0.71	0.80	0.13	
127-18-4	Tetrachloroethene	0.79	0.71	0.12	0.10	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Veritied By:	Date:	
	·	Page No.:

P2400191 - Sample (3)

RESULTS OF ANALYSIS Page 1 of 1

Client: Sear-Brown

Client Sample ID: BK-1 CAS Project ID: P2400191

Client Project ID: Buell Road - Comfort Inn/16059 CAS Sample ID: P2400191-005

Test Code:

EPA TO-15

Date Collected: 1/28/04

Instrument ID:

Tekmar AUTOCAN/HP5972/HP5890 II+/MS2

Date Received: 1/30/04

Analyst:

Michelle Sakamoto

Date(s) Analyzed: 2/10/04

Sampling Media:

Summa Canister

Volume(s) Analyzed:

1.00 Liter(s)

Test Notes:

Container ID:

AC00376

Pi 1 = -0.1

Pf 1 = 3.5

D.F. = 1.25

CAS#	Compound	Result µg/m³	MRL μg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.63	ND	0.24	
75-34-3	1,1-Dichloroethane	ND	0.63	ND	0.15	
156-60-5	trans-1,2-Dichloroethene	ND	0.63	ND	0.16	i
156-59-2	cis-1,2-Dichloroethene	ND	0.63	ND	0.16	
79-01-6	Trichloroethene	ND	0.63	ND	0.12	
127-18-4	Tetrachloroethene	ND	0.63	ND	0.09	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

Verified By:	Date	:	
			Page No.:

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix E

IRM Final Engineering Report Excerpts

INTERIM REMEDIAL MEASURES FINAL ENGINEERING REPORT

NYSDEC SITE NO. V00330-8 BROWNFIELD CLEANUP AGREEMENT INDEX NO. B8-0576-00-04A

BUELL AUTOMATICS, INC. 381 BUELL ROAD ROCHESTER, NEW YORK 14624

MARCH 2004

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 6274 EAST AVON-LIMA ROAD AVON, NEW YORK 14414

Prepared on Behalf of:

BUELL AUTOMATICS, INC. 381 BUELL ROAD ROCHESTER, NEW YORK 14624

Prepared by:

SEAR-BROWN 85 METRO PARK ROCHESTER, NEW YORK 14623

TABLE 1a SUMMARY OF PID HEADSPACE READINGS: IRM EXCAVATION (ppm)

Brownfields Cleanup Program 381 Buell Road Rochester, NY

		PID R	eadings
Excavation Location	Depth	Peak	Background
	(ft. bgs)	(ppm)	(ppm)
BU-SWALL-S	6.0	350.0	1.0
BU-SEWALL-S	5.4	560.0	1.0
BU-SEBOTT-S	6.5	600.0	1.0
BU-SWWALL-S	5.3	460.0	1.0
BU-WWALL-S	4.3	500.0	1.0
BU-NWWALL-BOTT-S	6.5	5.5	1.0
BU-NWWALL-SHAL-S	4.6	5.1	1.0
BU-PIER-NSHAL-S	2.8	79.4	1.0
BU-PIER-NMID-S	5.0	42.8	1.0
BU-NWALL-S	5.0	4.7	1.0
BU-EXCDUP-S	5.0	3.4	1.0
BU-NEWALL-S	5.4	21.7	1.0
BU-WWALL2-S	3.6	37.0	1.0
BU-WBOTT-S	6.8	6.8	1.0
BU-RW1-BOTT-S	6.0	3.9	1.0
			·

Notes:

- 1. ft. bgs = feet below ground surface.
- 2. ppm = parts per million.
- 3. PID data collected with ThermoEnvironmental meter equipped with 11.8 eV lamp.

TABLE 9a SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: GEOPROBE BORINGS (ug/kg)

Brownfields Cleanup Program 381 Buell Road Rochester, New York

	<u></u>		SAMPLE LOCATION	S (December 24, 200)	11			SAMPI	E LOCATIONS	(December 3	11 2003)		
Sample ID	BU-GP1-S3BOTT-S		BU-GP3-SITOP-S	BU-GP3-S1MID-S		BU-GP3-S2BOTT-S	BU-CP-5-S	BU-GP-5-S	D323 08	BU-GP-6-S		BU-GP-10-S	Rec. Soil
Sample Depth (ft. bgs)	12.0 - 13.7	5.0 - 7.0	1.3 - 2.3	2.3 - 4.0	4.0 - 5.3	8.0 - 9.3	9.0 - 9.5	12.0 - 12.6	GP5 (14-14.5)	i	7.5 - 8.0	19.8 - 20.0	
						7.5	7.0	T	DEC Sample			1	Cleaning Opt.
Analyte]	, ,			1	
Acetone	6.3 J	120 U	14,000 U	2.900 U	38	29 J	28,000 U	6 J	6 J	5 J	1,500 U	12	200
Benzene	5.9 U	30 U	3.400 U	730 U	6.5 U	29 U	28.000 U	12 U	12 U	12 U	1.500 U	11 U	60
Bromodichloromethane	5.9 Ü	30 U	3.400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 0	10,000 *
Bromoform	5.9 U	30 U	3.400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 0	10,000 *
Bromomethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
2-Butanone	1.2 J	13 J	6.800 U	1.500 U	3.8 J	58 U	28,000 U	12 U	12 U	12 U	1.500 U	11 0	300
Carbon Disultide	12 U	59 U	6.800 U	1,500 U	13 U	58 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	2,700
Carbon Tetrachloride	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 0	600
Chlorobenzene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28.000 U	12 U	12 U	12 U	1.500 U	11 U	1.700
Chloroethane	5.9 U	11 J N	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	1,900
Chlorofonn	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	300
Chloromethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	10.000 *
Dibromochloromethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 0	10.000 *
1,1-Dichloroethane	5.9 U	30 U	3,400 U	730 U	6.8	6.5 J	28,000 U	12 U	12 U	12 U	1.500 U	11 U	200
1.2-Dichloroethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	100
1.1-Dichloroethene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	400
trans-1.2-Dichloroethene	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	300
cis-1.2-Dichloroethene	5.9 U	15 U	67,000	4,400	26	29 U	28,000 U 28,000 U	9 J	12 U	7 J	1,600 U	19	10.000 *
1.2-Dichloropropane	5.9 U	30 U	3,400 U	730 U	6,5 U	29 U	28,000 U	12 U		1		1	10.000 +
. ' ' 1	5.9 U			l	l	I			12 U	12 U	1.500 U	11 U	
trans-1,3-Dichloropropene	5,9 U	30 U	3.400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 U	10.000 *
cis-1,3-Dichloropropene		30 U	3,400 U	730 U	6.5 U	29 U	28,000 U	12 U	12 U	12 U	1.500 U	11 0	10.000 *
Ethylbenzene	5.9 U	190	3,400 U	730 U	6.5 U	20 J	28.000 U	12 U	12 U	12 17	1.500 U	11 U	5.500
2-Hexanone	12 U	59 U	6.800 U	1,500 U	13 U	58 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
Methylene Chloride	5.9 U	30 U	3.400 U	730 U	6.5 U	29 U	28,000 U	1 J	12 U	2 J	1,500 U	2 J	100
4-Methyl-2-Pentanone	12 U	59 U	6.800 U	1,500 U	13 U	58 U	28,000 U	12 U	12 U	12 U	1.500 U	11 0	000,1
Styrene	5.9 U	30 U	3.400 U	730 U	6.5 U	29 U	28.000 U	12 U	12 U	12 U	1,500 U	11 U	10,000 *
1,1,2,2-Tetrachloroethane Tetrachloroethene	5.9 U 5.9 U	30 U 30 U	3.400 U	730 U 730 U	6.5 U	29 U	28.000 U	12 U	12 U	12 U	1.500 U	11 U	600
1	1		810 J	1	6.5 U	29 U	28.000 U	12 U	12 U	12 U	2,000	11 U	1,400
Toluene 1.1.1-Trichloroethane	5.9 U	30 U	3,400 U	730 U	1.4 J	29 U	28.000 U	12 U	12 U	12 U	270 J	11 U	1.500
I .	5.9 U	30 U	3.500	340 J	6.5 U	29 U	3,800 J	12 U	12 U	12 U	4.100	11 U	800
1.1,2-Trichloroethane	5.9 U	30 U	3,400 U	730 U	6.5 U	29 U	28.000 U	12 U	12 U	12 U	1,500 U	11 U	10.000 *
Trichloroethene	5.9 U	20 J	120,000	8,600	21	8.0 J	350,000	32	12 U	12 J	320,000 D	20	700
Vinyl Chloride	5.9 U	30 U	3,400 U	<u>360</u> J	17	29 U	28,000 U	12 U	12 U	12 U	1,500 U	11 U	200
o-Xylene	5.9 U	46	3,400 U	730 U	2.2 J	22 J	28.000 U	12 U	12 U	12 U	1,500 U	11 U	1.200
m'p-Xylenes	5.9 U	450	3,400 U	730 U	6.5 U	21 J	28.000 U	12 U	12 U	12 U	160 J	11 U	1.200
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NA	NA	NA NA	10.000 *
1.2-Dibromo-3-chloropropane	NA	NA	NA	NΑ	NA	NA	NA	NA	12 U	NΑ	NA	NΛ	10.000 *
1.3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	12 TJ	NΑ	NA	NA.	1,600
1.4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NΛ	NA	12 U	NA	NA	NA NA	8,500
1.2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	12 U	NΛ	ΝA	NA	7,900
Dichlorodifluoromethane	NA	NΛ	NA	NA	NA	NA (NA	NA NA	12 U	NΛ	NΛ	NA	10,000 *
1.2-Dibromoethane	NA	NA NA	NA NA	NA	NA	NA NA	NA	NA NA	12 U	NA NA	NA	NA.	10,000 *
Isopropylbenzene	NA	NA	NA NA	NA	NA	NA NA	NΛ	NA NA	12 U	NA	NA	NA NA	2,300
Methyl Acetate	NA NA	NΛ	NA NA	NA	NA .	NA NA	NA	NA I	12 U	NA NA	NA	NA NA	10,000 *
Methyl tert-Butyl Ether	NA NA	NA NA	NA NA	NA .	NA NA	NA NA	NA	NA I	12 U	NA	NA	NA NA	120
Methylcyclohexane	NA NA	NA NA	NA NA	NA	NA	NA	NA	NA NA	12 U	NA	NA.	NA NA	10,000 *
Trichlorofluoromethane	NA NA	NA NA	NA NA	NA	NA	NA NA	NΛ	NA NA	12 U	NA NA	NA NA	NA NA	10,000 *
1,1,2-Trichloro-			· · · ·			''''	. 7/1	"	,- 0		14/3	1 10	117,17077
1.2.2-Trifluoroethane	NA	NA	NA	NA	NA	NA I	NA	NA	12 U	NA	NA	NA	6,000
1,2,4-Trichlorobenzene	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	12 U	NA NA	NA NA	NA NA	3,400
Total FOC TICs	0	143,200	67,100	1,540	1,678	13,320	19,000	9	0	0	58,700	0	10,000 *
PID Readings (ppm)	5.0	30	250	33	19	13	8,000	4.0		22	77	0.0	-

- 1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
- 2. All results are expressed in micrograms per kilogram (ug-kg), which is equivalent to parts per billion.
- 3. Bold-faced values are analytes that have been detected.
- 4. Bold-faced, Underlined, and Italicized values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.

- 5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 6. "I" indicates an estimated value.
- 7. "U" indicates that the analyte was analyzed but not detected.
 8. * As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10.000 ppb.
- bgs below ground surface
- 10. "NA" indicates sample was not analyzed for listed analyte.
- 11. PID Readings (ppm) Headspace measurements taken in parts per million (ppm) with a Photoionization Detector (PID).

TABLE 9b

SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: MONITORING WELL BORINGS (ug/kg)

Brownfields Cleanup Program 381 Buell Road Rochester, New York

						NVESTIGATIO	ON SAMPLE I	LOCATIONS						IRM (Dec. 3	30, 2003)	
ldentifier	BU-MW2D-S	BU-MW6-S	BU-MW7-S	BU-MW8-S	BU-MW9-S	BU-MW10-S	BU-MW11-S	BU-MW12-S	BU-XX-S-DU	BU-MW13-S	BU-MW14-S	BU-MW15-S	BU-S-DUP	BU-RW1-BOTT-S	D323 07	Rec. Soil
Sample Depth (ft. bgs)	8.0 - 10.0	15.0 - 15.9	16.0 - 18.0	16.0 - 18.0	4.0 - 6.0	8.0 - 10.0	10.0 - 12.0	4.0 - 5.3	12.0 - 14.0	6.0 - 8.0	15.2 - 16.0	11.5 - 12.0	11.5 - 12.0	6.0	RW1-BOTT	Cleanup Obj. (1)
														<u> </u>	DEC Sample	
Analyte												1				
Acetone	12 U	11 U	26 B	96 B	12 U	11 U	12 U	17 B	21 B	19 B	10 U	4 J	4 J	15	32	200
Benzene	12 U	11 U	11 0	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	60
Bromodichloromethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
Bromoform	12 U	11 U	li U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
Bromomethane	12 U	11 U	HU	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
2-Butanone	12 U	11 U	11 0	60 Li	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	4 J	300
Carbon Disultide	12 U	11 U	2 J	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	2,700
Carbon Tetrachloride	12 U	H C	H U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	600
Chlorobenzene	12 U	11 U	H U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,700
Chloroethane	12 U	11 U	11 [60 U	12 U	11 U	12 U	12 U	12 U	12 0	10 U	10 U	10 U	12 U	13 U	1,900
Chloroform	12 U	11 U	11 0	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	300
Chloromethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
Dibromochloromethane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
1,1-Dichloroethane	12 U	11 U	11 U	23 J	28	45	12 U	12 U	12 U	12 U	10 U	10 U	10 U	2 J	2 J	200
1,2-Dichloroethane	12 U	11 U	11 U	60 U	12 U	ПŰ	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	100
I,I-Dichloroethene	12 U	11 U	11 U	24 J	12 U	5 J	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	400
trans-1,2-Dichloroethene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 C	12 U	13 U	300
cis-1,2-Dichloroethene	190	41	11 U	480 U	90	890 D	11 J	12 U	12 U	12 U	10 U	10 U	10 U	7 J	7 J	10,000 *
1,2-Dichloropropane	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U]	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
trans-1,3-Dichloropropene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
cis-1.3-Dichloropropene	12 0	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
Ethylbenzene	12 U	НU	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	5,500
2-Hexanone	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
Methylene Chloride	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	100
4-Methyl-2-Pentanone	12 U	11 U.	11 U	60 U	12 U	ИU	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,000
Styrene	12 U	11 U	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
1,1,2,2-Tetrachloroethane	12 U	ПU	11 U	60 U	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	600
Tetrachloroethene	12 U	11 U	11 U	60 U	12 U	HU	12 U	12 U	12 U	12 U	10 U	· 10 U	10 U	12 U	13 U	1,400
Toluene	12 U	11 U	11 U	6 J	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,500
1,1,1-Trichloroethane	12 U	11 U	11 U	60 U	12 U	4 J	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	800
1,1,2-Trichloroethane	12 U	11 U	ווטן	60 U	12 U	19	12 U	12 1)	12 U	12 U	10 U	10 U	10 U	12 U	13 U	10,000 *
Trichloroethene	12 U	4 J	11 U	<i>22,000</i> D	9]	440 D	12 U	12 U	12 U	12 U	10 U	10 U	10 U	61	25	700
Vinyl Chloride	12 U	11 U	11 U	60 U	6 J	28	4 J	12 U	12 U	12 U	10 U	10 U	10 U	5 J	13 U	200
o-Xylene	12 U	11 U	11 U	60 C	12 U	11 U	12 U	12 U	12 U	12 U	10 U	10 U	10 U	12 U	13 U	1,200
m/p-Xylenes	12 U	11 ()	11 U	60 U	12 U	11 U	12 U	12 U	12 0	12 U	10 U	10 Ω	10 U	12 U	13 U	1,200
Cvclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	8 J	10.000 *
1,2-Dibromo-3-chloropropane	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	13 (10,000 *
1,3-Dichlorobenzene	NA NA	NA NA	NA NA	NA .	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	13 U	1,600
1,4-Dichlorobenzene	NA I	NA NA	NA NA	NA NA	NA NA	NA NA	NΛ	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	13 U	8,500
1,2-Dichlorobenzene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	13 U	7,900
Dichlorodifluoromethane	NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	13 U	10,000 *
1,2-Dibromoethane	NA NA	NA	NA	NA NA	NA NA	NA NA	NΑ	NA NA	NA NA	NA NA	NA NA	NA NA	NΛ	NA NA	13 U	10,000 *
Isopropylbenzene	NA	NA NA	NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	13 U	2,300
Methyl Acetate	NA	NA NA	NA	NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NΛ	NA NA	13 U	10,000 *
Methyl tert-Butyl Ether	NA NA	NA NA	NA NA	NA	NA NA	NA	NA .	NA NA	NA NA	NA.	NA	NA I	NA	NA NA	13 U	120
Methylcyclohexane	NA NA	NA NA	NA NA	NA NA	NA.	NA	NA	NA NA	NA NA	NA.	NA NA	NA NA	NA	NA NA	12 J	10,000 *
Trichlorofluoromethane	NA	NA NA	NA	NA NA	NA.	NA NA	NA	NA NA	NA NA	NA NA	NA	NA NA	NA	NA NA	13 U	10,000 *
1,1,2-Trichloro-								····	.,,,	'''	1171	[.,,,				177,500
1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NΛ	NA	NA	NA	NA	13 U	6,000
1,2,4-Trichlorobenzene	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NΛ	NA NA	NA	NA NA	NΛ	NA NA	13 U	3,400
Total VOC TICs	0	11	n	()	10	71	16	0	0	0	ŋ	0	0	1,008	1,069	10,600 *
PID Readings (ppm)	23.3	0	0	3		14	0	0	0	0	0	0		3.9		

Notes:

- NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation. Technical and Administrative Guidance Memorandum (TAGM 4046) HWR 94-4046 (Revised July 2001).
- 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
- 3. **Bold-faced** values are analytes that have been detected.
- Bold-faced, <u>Underlined</u>, and <u>Italicized</u> values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.
- 5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
- 6. BU-XX-S-DU is a duplicate analysis of sample BU-MW-12-S.
- 7. BU-S-DUP is a duplicate analysis of sample BU-MW15-S.

- 8. "J" indicates an estimated value.
- 9. "U" indicates that the analyte was analyzed but not detected.
- 10. "B" indicates the analyte was found in the associated blank.
- 11. * As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.
- BU-RW1-BOTT-S was collected as part of the Interim Remedial Measures excavation sampling; RW-1 was installed manually.
- 13. bgs = below ground surface
- 14. "NA" indicates sample was not analyzed for listed analyte.
- 15. PID Readings (ppm) Headspace measurements taken in parts per million (ppm) with a Photoionization Detector (PID).

TABLE 10 SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: IRM EXCAVATION (ug/kg)

Brownfields Cleanup Program 381 Buell Road Rochester, New York

Γ							SAMPLE LOC	CATIONS							
							WALL SAY								
Identifier	BU-SWALL-S	D323 01	D323 01DL	BU-SEWALL-S	BU-SWWALL-S	BU-WWALL-S	BU-NWWALL/SHAL-S	D323 03	BU-NWALL-S	BU-EXCDUP-S	D323 04	BU-NEWALL-S	BU-WWALL2-S	D323 05	Rec. Soil
EPA Sample No.	SWALLS	South Wall	South Wall	SEWALLS	SWWALLS	WWALLS	NWWALL-SHALS	N Side Seep	NWALL-S	EXCDUP-S	N Sidewall	NEWALL-S	WWALL2-S	W Sidewall	Cleanup
Sample Depth (ft. hgs)	6.0	5.0-6.0	5.0-6.0	5.4	5.3	4.3	4.6	5.0	5.0	5.0	5.0	5.4	3.6	Added Area	Obj. (1)
		DEC Sample	DEC Sumple					DEC Sample			DEC Sample			DEC Sample	
Analyte															200
Acetone	21	46 J	1,500 U	7,400 C	1,500 U	1.500 U	29	10 J	79	34	30 J	84 J	18 J	40	200
Benzene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	3 J	25 U	26 U	27 U	66 U	62 U	23 U	12 U	60
Bromodichloromethane	12 U	60 U	1,500 U	7.400 U	1,500 U	1.500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Bromotorm	12 U	60 U	1.500 U	7.400 U	1,500 U	1.500 U	26 U	25 (1	26 U	27 U	66 U	62 U	23 U 23 U	12 U	10.000 *
Bromomethane 2-Butanone	12 U 4 J	60 U	1.500 U 1.500 U	7,400 U 7,400 U	1,500 U 1,500 U	1,500 U 1,500 U	26 U 26 U	25 U 25 U	26 U 26 U	27 U 4 J	66 U	62 U 8 J	23 U	12 U	300
Carbon Disulfide	12 U	60 C	1.500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 0	2,700
Carbon Tetrachloride	12 U	60 U	1.500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	600
Chlorobenzene	12 U	60 U	1.500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,700
Chloroethane	12 U	60 U	1,500 U	7,400 U	1,500 U	1.500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 0	1,900
Chloroform	12 U	60 U	1.500 U	7.400 U	1,500 U	1.500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 0	300
Chloromethane	12 U	60 U	1.500 U	7,400 U	1,500 U	1,500 U	26 U	25 1	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Dibromochloromethane	12 U	50 U	1,500 U	7,400 U	1,500 U	1,500 C	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
1,1-Dichloroethane	12 0	60 U	1,500 U	880 J	1,500 U	1.500 U	22 J	25 U	26 U	27 U	66 U	62 U	4 J	12 U	200
1.2-Dichloroethane	12 U	60 U	1,500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	100
1,1-Dichloroethene	12 U	60 U	1,500 U	7.400 U	1,500 U	1.500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	400
trans-1.2-Dichloroethene	12 Ü	60 U	1,500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	300
cis-1.2-Dichloroethene	11 J	230	1,500 U	150,000	1,100 J	1,800	89	12 J	26 U	27 U	46 J	17 J	270	8.1	10,000 *
1,2-Dichloropropane	12 U	60 U	1,500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 0	10.000 *
rans-1,3-Dichloropropene	12.13	60 U	1,500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
cis-1.3-Dichloropropene	12 13	60 U	1.500 U	7.400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	* 000.01
Ethylbenzene	12 U	65	1.500 U	940 J	1,500 U	1,500 13	26 U	25 U	26 U	27 U	66 U	44 J	23 U	12 U	5.500
2-Hexanone	12 U	60 U	1,500 U	7.400 U	1,500 U	1,500 U	26 (:	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10,000 *
Methylene Chloride	12 U	60 U	1,500 U	7,400 U	1,500 U	1.500 U	26 U	25 (7	26 U	27 U	66 U	62 U	23 U	12 U	100
4-Methyl-2-Pentanone	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	000,1
Styrene	12 U	60 U	1,500 U	7,400 U	1,500 U	1,500 U	26 U	25 U	26 1!	27 U	66 U	62 U	23 U	12 U	* 000.01
1,1,2,2-Tetrachloroethane	12 U	60 U	1,500 U	7.400 U	1,500 U	1.500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	600
Tetrachloroethene	12 U	77	1,500 U	7.400 U	1.500 U	1.500 U	26 C	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,400
Toluene	12 U	11 J	1,500 U	7.400 U	1.500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	1,500
1,1,1-Trichloroethane	12 U	44 J	1,500 U	<u>6,500</u> J	1.500 U	1,500 U	26 U	25 L	26 L ¹	27 U	7 1	62 U	23 U	12 U	800
1,1,2-Trichloroethane	12 U	60 U	1,500 U	7,400 U	1.500 U	1,500 U	26 U	25 U	26 U	27 U	66 U	62 U	23 U	12 U	10.000 *
Trichloroethene	24	2,800 E	1.700 D	110,000 5	<i>5,3<u>00</u> J</i>	13.000	26 U	78	26 U	27 U	29 J	240 J	280	24	. 700
Vinyl Chloride	12 U	60 U	1,500 U	3 <u>.000</u> J	1,500 U	1.500 U	65	25 U	26 U	27 U	66 U	62 U	23 U	12 U	200
o-Xylene	2 J	100	1,500 U	<u>2.000</u> J	1.500 U	1.500 U	26 U	25 U	26 U	27 U	10 J	69 J	23 U	12 U	1,200
m/p-Xylenes	2 J	86	1,500 U	2, <u>300</u> J	1.500 U	1,500 17	26 17	?5 U	26 U	27 U	66 U	40 J	23 U	12 U	1.200
Cyclohexane	VА	J 00	1,500 U	NA	NA NA	NA	NA NA	8.1	NA NA	NA	66 U	NA	NA	12 U	10.000 *
.2-Dibromo-3 chloropropane	NA	60 U	1,500 U	NA	NA Vi	NA	NA	25 U	NA NA	NA	66 U	NA	NA NA	12 0	1 405
1,3-Dichlorobenzene	NA NA	60 U	1.500 U	NA NA	NA NA	NA NA	.\A	25 U	NA SA	NA NA	66 U	NA	NA NA	12 U	1.600
,4-Dichlorobenzene	NA NA	60 U	1,500 U 1,500 U	NA NA	NA NA	NA NA	NA NA	25 U	NA NA	NA NA	66 U	NA NA	NA NA	12 U	8,500
Dichlorodifluoromethane	NA NA	60 U 60 U	1.500 U	NA	NA NA	NA NA	NA NA	25 U 25 U	NA NA	NA NA	66 U	NA NA	NA NA	12 U 12 U	7.900 10.000 *
1.2-Dibromoethane	NA NA	60 U	1,500 U	NA NA	NA NA	NA NA	NA NA	25 U	NA NA	NA NA	1	NA NA	NA NA	12 U 12 U	10,000 *
sopropylbenzene	NA NA	130	1.500 U	NA NA	NA NA	NA NA	NA NA	25 U 25 U	NA NA	NA NA	66 U 66 U	NA NA	NA NA	12 U	2,300
Vethylacetate	NA NA	60 U	1.500 U	NA NA	NA NA	NA NA	NA NA	25 U	NA NA	NA NA	66 U	NA NA	NA NA	12 U	±,500 10,000 *
Methyl tert-Butyl Ether	NA	60 U	1,500 U	NA NA	NA NA	NA NA	NA NA	25 1	NA NA	NA NA	66 U	NA NA	NA NA	12 U	10,000
Methylcyclohexane	NA NA	49 J	1,500 U	NA NA	NA NA	NA NA	NA NA	27	NA NA	NA NA	8 1	NA NA	NA NA	12 U	10,000 *
Friehlerofluoromethane	NA NA	60 U	1,500 U	NA NA	NA.	NA NA	NA NA	25 U	NA NA	NA	66 U	NA NA	NA NA	12 U	10,000
1,2-Trichloro-		26.11		,,,		\$1.A				21.5		***			. 222
1.2.2-Trifluoroethane 2.4-Trichlorobenzene	NA NA	60 U 60 U	1,500 U 1,500 U	NA NA	NA NA	NA NA	NA NA	4 J 25 C	NA NA	NA NA	66 U 66 U	NA NA	NA NA	12 U 12 U	5,000 3,400
foral VOCTICs	5,460	80,500	<i>154,799</i>	<i>623.000</i> D	5,410	7,640	3,460	2.206	2,361	2,301	8,150	58,300	13	7	10.000 *
PID Readings	350			560	160	500	5,1		4.7	3.4		21.7	37.0		

- Notes:
 1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels.
 Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046)
 HWR 94-4046 (Revised July 2901).
 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.
 3. Bold-faced values are analytes that have been detected.

 1. Note that Underlined and Indicated values are analytes that have been detected and exceed the TAGM.

- Bold-faced, Enderlined, and Italietzed values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.
 "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
 BU-XX-S-DU is a duplicate analysis of sample BU-MW-12-S.
 BU-S-DUP is a duplicate analysis of sample BU-MW15-S.

- 8. "J" indicates an estimated value.
- 9. "U" indicates that the analyte was analyzed but not detected.

- 10. "B" indicates the analyte was found in the associated blank.
 11. * As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.
 12. "E" indicates that the analyte concentration exceeded the calibration range of the instrument for that specific analysis.

TABLE 10 SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL: IRM EXCAVATION (ug/kg) Brownfields Cleanup Program 381 Buell Road

Rochester, New York

				SAMPLE	LOCATIONS				
l t			BOT	TOM SAMPLES	БОСАТИЯ		PIER SAM	PLES	
ldentifier	BU-SEBOTT-S	D323 02	D323 02DL	BU-NWWALL-BOTT-S	BU-WBOTT-S	D323 06	BU-PIER-NSHAL-S	BU-PIER-NMID-S	Rec. Soil
EPA Sample No.	SEBOTTS	South End	South End	WALL-BOTT	WBOTT2-S	W Side Bott	NSHAL-S	NMID-S	Cleanup
Sample Depth (ft. bgs)	6.5	Bott of Exc	Bott of Exc	6.5	6.8	Added Area	2.8	5.0	Obj. (i)
pro a spirit supply		DEC Sample	DEC Sample		,,,,,	DEC Sample			
Analyte		2 is commpile	DEC Sample			Disc maniple			
Acetone	7,400 U	6,000 U	7.400 (!	53	8 J	5.1	1.500 UJ	1,500 UJ	200
Benzene	7,400 U	6,000 U	7,400 U	3 J	25 U	12 0	1,500 UJ	1,500 UJ	60
Bromodichloromethane	7,400 U	6,000 U	7,400 U	24 ()	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Bromoform	7,400 U	6,000 U	7,400 U	24 U	25 U	12 13	1,500 UJ	1,500 UJ	10,000 *
Bromomethane	7,400 U	6,000 U	7.400 U	24 U	25 U	12 U	1.500 UJ	1,500 UJ	10,000 *
2-Butanone	7,400 U	6,000 U	7.400 U	24 U	25 U	12 U	1.500 CJ	1.500 UJ	300
Carbon Disulfide	7.400 U	6,000 U	7.400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	2,700
Carbon Tetrachloride	7,400 U	6,000 U	7.400 U	24 ()	25 U	12 U	1,500 UJ	1,500 CJ	600
Chlorobenzene	7,400 U	6,000 U	7.400 U	24 U	25 U	12 U	1,500 UJ	1.500 UJ	1.700
Chloroethane	7.400 U	6.000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	1,900
Chloroform	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 LU	1,500 UJ	300
Chloromethane	7.400 U	6,000 U	7.400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Dibromochloromethane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1.500 UJ	1,500 UJ	10,000 *
1,1-Dichloroethane	1.400 J	1,200 5	1.000 JD	10 J	25 U	12 U	1,500 UJ	1,500 UJ	200
1,2-Dichloroethane	7,400 U	6.000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	100
1,1-Dichloroethene	890 J	610 J	7,400 U	24 (1	25 U	12 U	1,500 UJ	1,500 UJ	400
trans-1,2-Dichloroethene	7.400 U	6.000 U	7,400 U	24 U	25 U	12 U	1.500 UJ	1,500 UJ	300
cis-1,2-Dichloroethene	190,000		140,000 D	24 0 5 J	23 U 57	7 5		,	
1 · ·		<i>150,000</i> E				1	1,700	2.000	10,000 *
1.2-Dichloropropane	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1.500 UJ	1,500 UJ	10,000 *
trans-1,3-Dichloropropene	7,400 U	6,000 U	7,400 U	24 U	25 U	12 U	1.500 UJ	1,500 UJ	10,000 *
cis-1.3-Dichloropropene	7,400 U	6,000 U	7,400 U	24 ()	25 U	12 U	1.500 UJ	1.500 UJ	10,000 *
lFthylbenzene	1.900 J	1,800 J	1.500 JD	24 U	25 U	12 U	1,500 CJ	160 J	5,500
2-Hexanone	7.400 U	6,000 U	7.400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Methylene Chloride	7.400 U	6,000 U	7.400 C	24 U	25 U	12 U	1,500 UJ	1.500 UJ	100
4-Methyl-2-Pentanone	7.400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	1,000
Styrene	7.400 U	6,000 U	7.400 C	24 U	25 U	12 U	1.500 UJ	1,500 UJ	10,000 *
1.1.2.2-Tetrachloroethane Tetrachloroethene	7.400 U	6,000 U	7,400 U	24 U	25 U	12 U	1.500 UJ	1,500 UJ	600
1	7.400 U	6,000 U	7,400 U	24 U	25 U	12 U	540 J	1,500 UJ	1,400
Toluene 1.1.1-Trichloroethane	840 J	730 J	7.400 U	24 U 24 U	25 U	12 U	1,500 UJ	1,500 UJ	1,500
1 '	<u>7,100</u> J	7.700	<i>7,600</i> D		25 U	12 U	450 J	1,500 UJ	800
1,1,2-Trichloroethane	7.400 U	6,000 U	7,400 U	24 U	25 U	12 U	1,500 UJ	1,500 UJ	10,000 *
Trichloroethene	7,400 U	1,500 J	1,100 JD	9 5	100	8 J	140,000	390 J	700
Vinyl Chloride	<i>5,100</i> J	6,000 U	7,400 U	11 J	25 U	12 U	1.500 UJ	1,500 UJ	200
o-Xylene	3,500 J	<u>3,900</u> J	<u>3,400</u> JD	24 U	25 U	12 U	1.500 UJ	380 J	1.200
m/p-Nylenes	4,000 1	4,400 3	<u>3.700</u> JD	24 (1	25 U	12 U	1,500 UJ	450 J	1.200
Cyclohexane	NA	6,000 C	7.400 U	A: A		12 U	.,,		10,000
				NA NA	NA NA		NA	NA	10,000 *
1.2-Dibromo-3-chloropropane 1.3-Dichlorobenzene	NA NA	6,000 U	7,400 U 7,400 U	NA NA	NA NA	12 U	NA NA	NA NA	10,000 *
1,4-Dichlorobenzene	NA NA	6,000 U 6,000 U	7,400 U 7,400 U	NA NA	NA NA	12 U 12 U	NA NA	NA NA	1,600 8,500
1,3-Dichlorobenzene	NA NA		7,400 U 7,400 U	NA NA	NA NA		NA NA	NA	
Dichlorodifluoromethane		6,000 U				12 U	NA NA	NA NA	7,900
1,2-Dibromoethane	NA NA	6,000 U 6,000 U	7.400 U 7.400 U	NA NA	N.\ N.\	12 U	NA NA	NA NA	10,000 *
Isopropylbenzene		6,000 C	7,400 U 1,500 JD	NA NA	NA NA	12 U 12 U	NA NA	NA NA	10,000 *
Methylacetate	NA NA			NA NA	NA NA	l .	NA NA	NA NA	2,300
Methyl tert-Butyl Ether	NA NA	6,000 U 6,000 U	7,400 U 7.400 U	NA NA	NA NA	12 U	NA NA	NA NA	10,000 *
Methylcyclohexane	NA NA	800 J	7.400 U	NA NA	NA NA	12 U 12 U	NA NA	NA NA	120 10,000 *
Trichlorofluoromethane	NA NA	6.000 U	7,400 U	NA NA	NA NA	12 U			10,000 *
1.1.2-Trichloro-	AV.	0.000 0	7.407 C	.5/1	.\/\	1-0	NA	NA	10,000
1,2,2-Trifluoroethane	NA	6,900 U	7,400 U	NA	NA	12 U	NA	NA	6,000
1.2,4-Trichlorobenzene	NA NA	6,000 U	7,400 U	NA NA	NA NA	12 U 12 U	NA NA		6,000 3,400
						İ		NA	
Total VOC TICs	820,000	852,000	1,208,000	3,760	49	0	26,400	147,300	10,000 *
PID Readings	600			5.5	6.8		79.4	42.8	

- Notes:

 1. NYSDEC: January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels,
 Division of Hazardous Waste Remediation. Technical and Administrative Guidance Memorandum (TAGM 4046) Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum (TAGM 4046)
 HWR 94-4046 (Revised July 2001).

 2. All results are expressed in micrograms per kilogram (ug/kg), which is equivalent to parts per billion.

 3. Bold-faced values are analytes that have been detected.

 4. Bold-faced, Enderlined, and Italicized values are analytes that have been detected and exceed the TAGM recommended soil cleanup objective.

 5. "D" indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.

 6. BU-XY-S-DU is a duplicate analysis of sample BU-MW12-S.

 7. BU-S-DUP is a duplicate analysis of sample BU-MW15-S.

 8. "T" indicates an estimated value.

 9. "U" indicates that the analyte was analyzed but not detected.

 10. "B" indicates the analyte was found in the associated blank.

 11. *= As per ΓAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.

 12. "E" indicates an estimated value.

- 12. "E" indicates an estimated value.

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix F

Grain Size Data



580 Olean Road East Aurora, NY 14052 phone/fax: (716) 655.4933 www.soilstesting.com

Soil • Aggregate • Geosynthetic Testing

February 3, 2004

RECEIVED

FEB 0 4 2004

STAR-BROWN

Mr. Peter Smith Sear Brown 85 Metro Park Rochester, New York 14623

Re: Soil Testing Report – Grain Size Analyses

Dear Mr. Smith:

Enclosed are the soil testing results for eight samples from borings and monitoring wells collected by you. 3rd Rock received the samples on January 16, 2004. Also included is the invoice for this testing. If you should need any further assistance, please contact me.

Sincerely, 3rd Rock, LLC

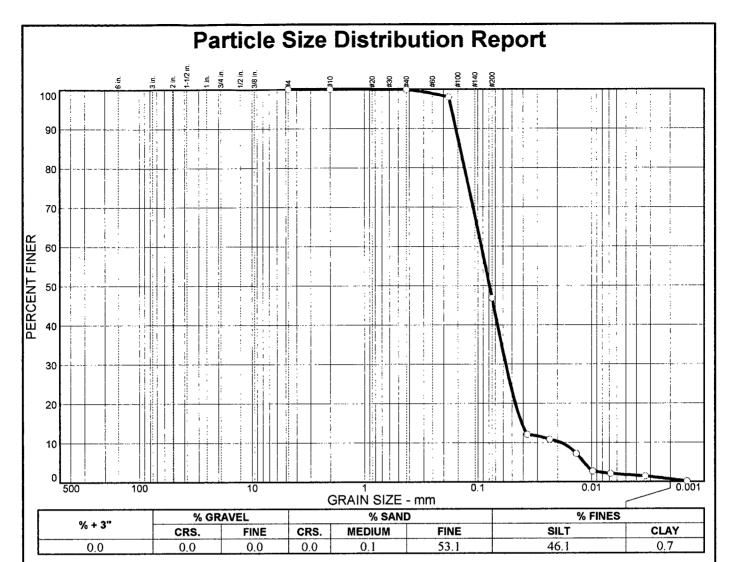
Jeanne M. Asquith Laboratory Manager



Summary of Grain Size Analyses Sear Brown

Project No.: 16059

Sample No.	Depth Range, ft	Gravel %	Sand %	Silt %	Clay %	Color Description
MW-8	10-14'	0.0	53.2	46.1	0.7	Reddish Brown Silty Fine Sand
MW-8 (A)	20-22'	1.6	31.5	64.9	2.0	Light Brown Sandy Silt
MW-8 (B)	20-22'	2.4	6.5	52.0	39.1	Grayish Brown Clayey Silt
MW-2D	12-16'	0.0	64.9	34.0	1.1	Brown Silty Fine Sand
MW-2D	20-24'	1.7	7.8	63.7	26.8	Gray Clayey Silt
MW-2D	33-37'	24.5	47.2	27.4	0.9	Gray Silty Sand with Gravel
B-29	5.5-6'	0.0	18.2	81.7	0.1	Brown Sandy Silt
B-29	7.5-8'	0.0	6.2	47.2	46.6	Reddish Brown Silty Clay



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
#4 #10 #40 #80 #200	100.0 100.0 99.9 98.0 46.8		(X-NO)
#10 #40 #80	100.0 99.9 98.0		

ID#04-001	Soil Description	
PL=	Atterberg Limits	PI=
D ₈₅ = 0.143 D ₃₀ = 0.0568 C _u = 5.01	Coefficients D60= 0.0933 D15= 0.0411 C _C = 1.86	D ₅₀ = 0.0790 D ₁₀ = 0.0186
USCS=	Classification AASH1	ΓO=
Reddish Brown S	Remarks Silty Fine Sand	

(no specification provided)

Sample No.: MW-8 Location:

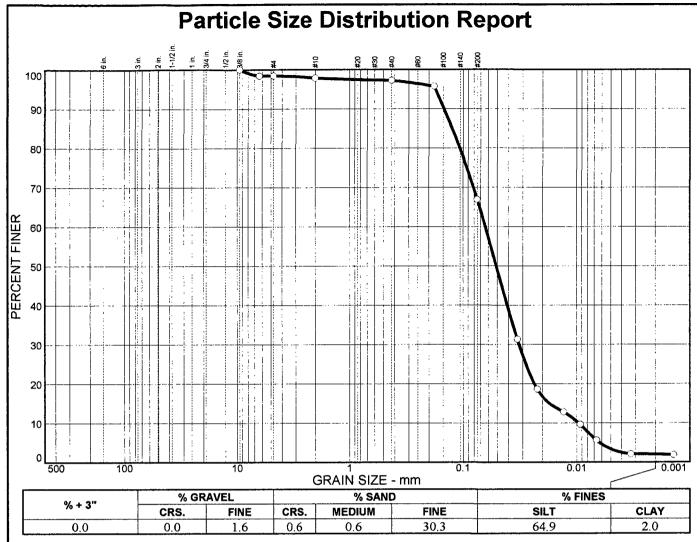
Source of Sample:

Date: 1/16/04 **Elev./Depth:** 10-14'

3rd Rock, LLC

Client: Sear Brown
Project: 16059

Project No: 04-001



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
3/8 in. 1/4 in. #4 #10 #40 #80 #200	100.0 98.4 98.4 97.8 97.2 95.7 66.9		

ID#04-002	Soil Description	
PL=	Atterberg Limits	PI=
D ₈₅ = 0.125 D ₃₀ = 0.0322 C _u = 6.63	Coefficients D60= 0.0638 D15= 0.0174 Cc= 1.69	D ₅₀ = 0.0511 D ₁₀ = 0.0096
USCS=	Classification AASHT	O=
Light Brown Sand	<u>Remarks</u> dy Silt	

* (no specification provided)

Sample No.: MW-8(A) Location:

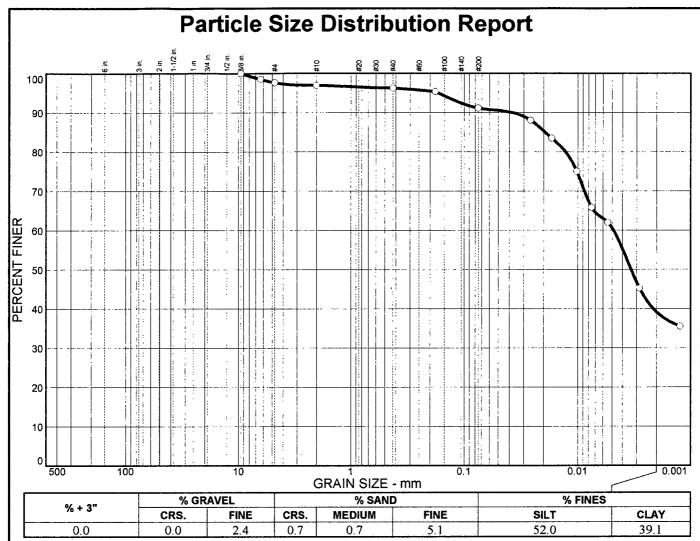
Source of Sample:

Date: 1/23/04 **Elev./Depth:** 20-22'

3rd Rock, LLC

Client: Sear Brown Project: 16059

Project No: 04-001



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
3/8 in.	100.0		
1/4 in. #4	98.5 97.6		
#10	96.9		
#40	96.2		
#80 #200	95.3 91.1		
1 "200	. 71.1		
1			
- 1			

ID#04-008	Soil Description	***************************************
PL=	Atterberg Limits	PI=
D ₈₅ = 0.0195 D ₃₀ = C _u =	Coefficients D ₆₀ = 0.0048 D ₁₅ = C _c =	D ₅₀ = 0.0034 D ₁₀ =
USCS=	Classification AASHT	D=
Grayish Brown C	Remarks Clayey Silt	

* (no specification provided)

Sample No.: MW-8(B)

Source of Sample:

Date: 1/23/04 **Elev./Depth:** 20-22'

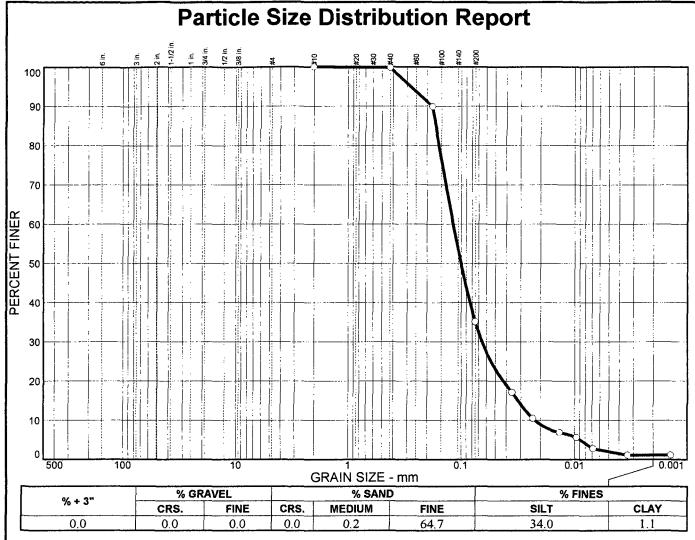
Location:

Client: Sear Brown

Project: 16059

3rd Rock, LLC

Project No: 04-001



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
#10 #40 #80 #200	100.0 99.8 89.9 35.1		

ID#04-003		
PL=	Atterberg Limits	PI=
D ₈₅ = 0.168 D ₃₀ = 0.0653 C _u = 5.31	Coefficients D60= 0.118 D15= 0.0315 C _C = 1.63	D ₅₀ = 0.100 D ₁₀ = 0.0222
USCS=	Classification AASHTO)=
Brown Silty Fine	Remarks Sand	

(no specification provided)

Sample No.: MW-2D Location:

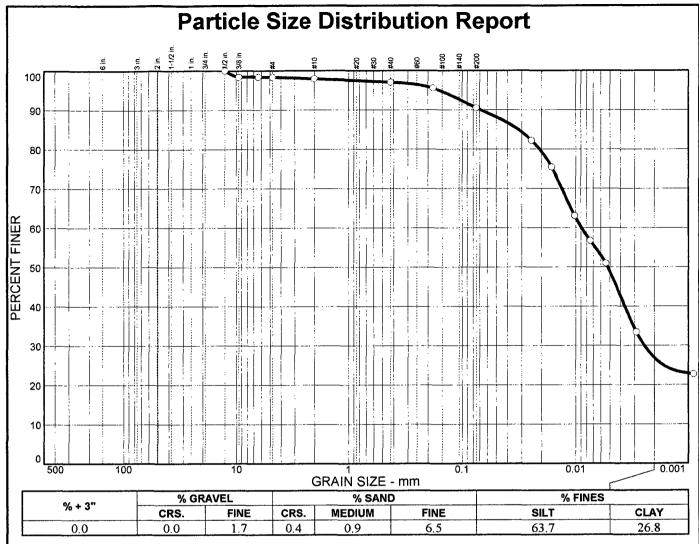
Source of Sample:

Date: 1/21/04 **Elev./Depth:** 12-16'

3rd Rock, LLC

Client: Sear Brown Project: 16059

Project No: 04-001



ſ	SIEVE	PERCENT	SPEC.*	PASS?
	SIZE	FINER	PERCENT	(X=NO)
	1/2 in. 3/8 in. 1/4 in. #4 #10 #40 #80 #200	100.0 98.4 98.4 98.3 97.9 97.0 95.5 90.5		

	Soil Description	
ID#04-004		
PL=	Atterberg Limits	P(=
D ₈₅ = 0.0322 D ₃₀ = 0.0025 C _u =	Coefficients D60= 0.0089 D15= C _c =	D ₅₀ = 0.0052 D ₁₀ =
USCS=	Classification AASHT	-O=
Gray Clayey Silt	<u>Remarks</u>	

* (no specification provided)

Sample No.: MW-2D

Source of Sample:

Date: 1/23/04 **Elev./Depth:** 20-24'

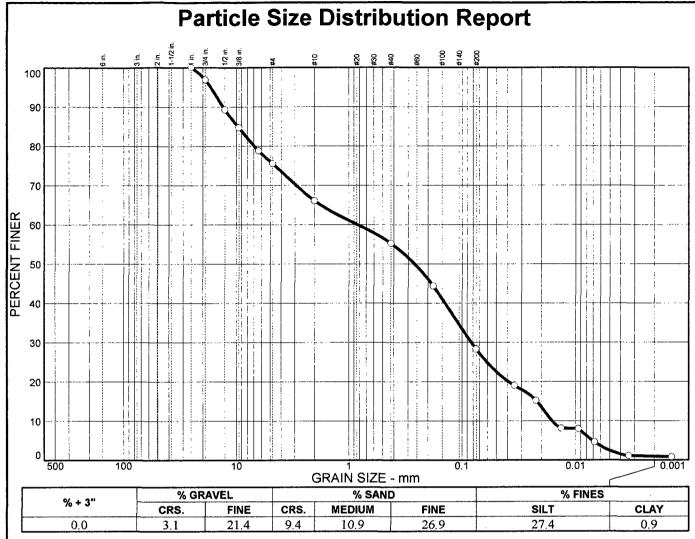
Location:

Client: Sear Brown

Project: 16059

3rd Rock, LLC

Project No: 04-001



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
1 in. 3/4 in. 1/2 in. 3/8 in. 1/4 in. #44 #10 #40 #80 #200	100.0 96.9 89.3 84.7 78.8 75.5 66.1 55.2 44.4 28.3		

ID#04-005	Soil Description	
PL=	Atterberg Limits	PI=
D ₈₅ = 9.72 D ₃₀ = 0.0828 C _u = 51.99	Coefficients D60= 0.836 D15= 0.0220 Cc= 0.51	D ₅₀ = 0.263 D ₁₀ = 0.0161
USCS=	Classification AASHT	·O=
Gray Silty Sand	Remarks with Gravel	

* (no specification provided)

Sample No.: MW-2D

Location:

Source of Sample:

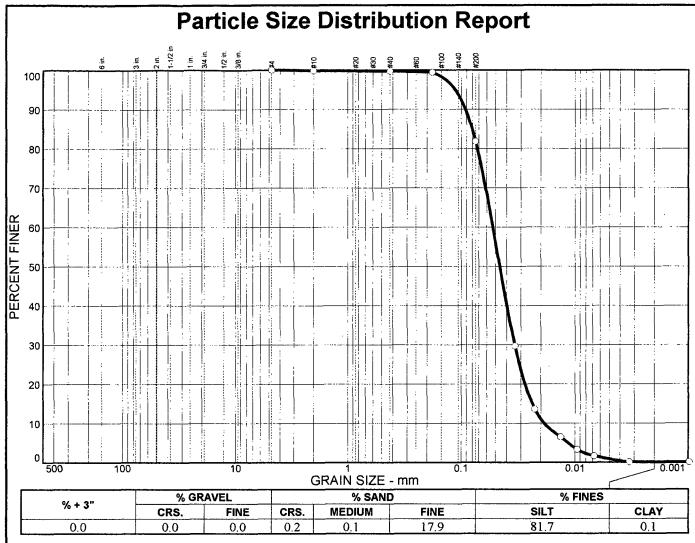
Date: 1/21/04

Elev./Depth: 33-37'

3rd Rock, LLC

Client: Sear Brown **Project:** 16059

Project No: 04-001



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
#4 #10 #40 #80 #200	100.0 99.8 99.7 99.4 81.8	PEROLINI	(X-NO)

ID#04-006	Soil Description	
PL=	Atterberg Limits	Pi=
D ₈₅ = 0.0804 D ₃₀ = 0.0338 C _u = 2.83	Coefficients D ₆₀ = 0.0529 D ₁₅ = 0.0238 C _c = 1.16	D ₅₀ = 0.0459 D ₁₀ = 0.0187
USCS=	Classification AASHT	·O=
Brown Sandy Silt	Remarks	
17 18 18		

(no specification provided)

Sample No.: B-29 Location:

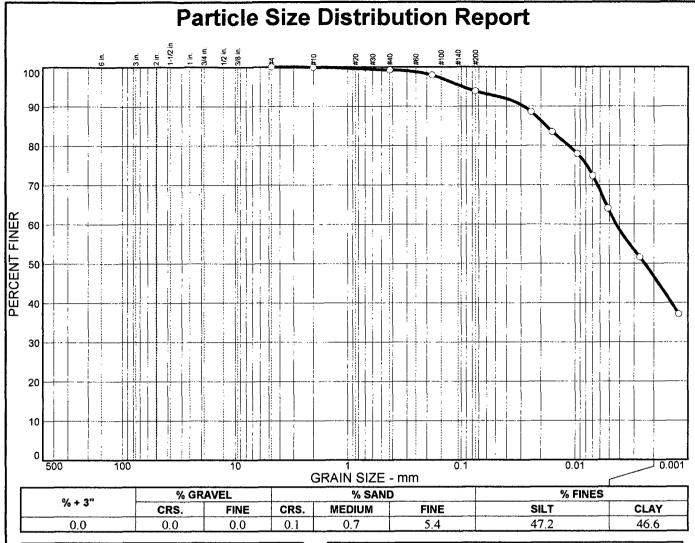
Source of Sample:

Date: 1/16/04 **Elev./Depth:** 5.5-6'

3rd Rock, LLC

Client: Sear Brown Project: 16059

Project No: 04-001



SIEV	/E	PERCENT	SPEC.*	PASS?
SIZ	E	FINER	PERCENT	(X=NO)
#10 #44 #80 #200	4 0 0 0 0	100.0 99.9 99.2 97.9 93.8	PERCENT	(X=NO)
			L	

ID#04-007	Soil Description	
PL=	Atterberg Limits	e Pl=
D ₈₅ = 0.0180 D ₃₀ = C _u =	Coefficients D60= 0.0043 D15= Cc=	D ₅₀ = 0.0024 D ₁₀ =
USCS≃	Classification AASHT	-O=
Reddish Brown S	<u>Remarks</u> Silty Clay	

* (no specification provided)

Sample No.: B-29

Imple No.: B-2

Source of Sample:

Date: 1/23/04

Elev./Depth: 7.5-8'

3rd Rock, LLC

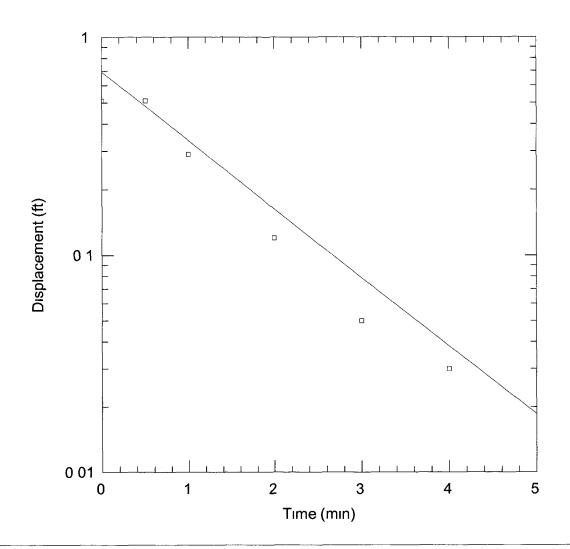
Client: Sear Brown Project: 16059

Project No: 04-001

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix G

Slug Test Data



MW-2 FALLING HEAD TEST

Data Set U \16059\data\Slug test\MW2fall aqt

Date 11/28/06

Time 09 13 24

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Buell Road, Rocheter, NY

Test Well MW-2 Test Date 10/30/02

AQUIFER DATA

Saturated Thickness 36 39 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-2)

Initial Displacement <u>0 51</u> ft Total Well Penetration Depth <u>36 39</u> ft Casing Radius <u>0 083</u> ft Static Water Column Height 36 39 ft Screen Length 10 ft Wellbore Radius 0 333 ft

SOLUTION

Aquifer Model <u>Unconfined</u>

K = 0.0005184 cm/sec

Solution Method Hvorslev

y0 = 0.6918 ft

Data Set: U:\16059\data\Slug test\MW2fall.aqt

Title: MW-2 Falling Head Test

Date: 11/28/06 Time: 09:13:29

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Buell Road, Rocheter, NY

Test Date: 10/30/02 Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 36.39 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-2

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.51 ft

Static Water Column Height: 36.39 ft

Casing Radius: 0.083 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 36.39 ft

No. of Observations: 6

Observation Data

Observation Data				
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	
0.5	0.51	3.	0.05	
1.	0.29	4.	0.03	
2.	0.12	5.	0.	

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0005184	cm/sec
v0	0.6918	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0005184	2.734E-5	cm/sec
y0	0.6918	0.04136	ft

Parameter Correlations

K 1.00 0.92 y0 0.92 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.000158 ft²

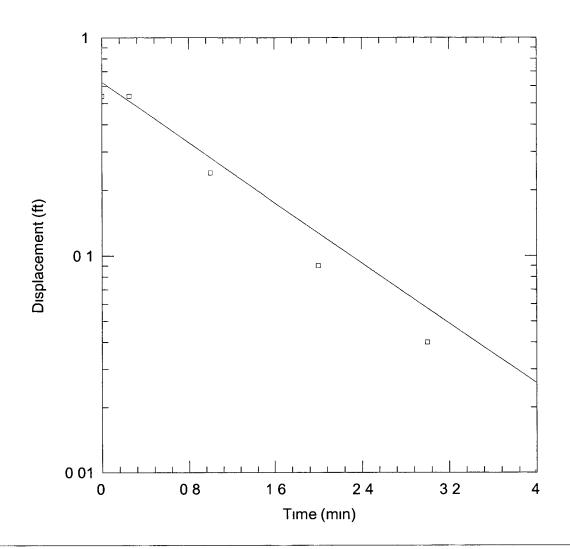
 Variance
 5.266E-5 ft²

 Std. Deviation
 0.007257 ft

 Mean
 -0.0003924 ft

 No. of Residuals
 5

No. of Residuals 5 No. of Estimates 2



MW-2 RISINGHEAD TEST

Data Set U \16059\data\Slug test\MW2rising aqt

Date 11/28/06

Time 09 14 21

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Buell Road, Rocheter, NY

Test Well MW-2
Test Date 10/30/02

AQUIFER DATA

Saturated Thickness 36 39 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-2)

Initial Displacement 0 54 ft
Total Well Penetration Depth 36 39 ft

Casing Radius 0 083 ft

Static Water Column Height 36 39 ft Screen Length 10 ft

Wellbore Radius 0 333 ft

SOLUTION

Aquifer Model Unconfined

K = 0.0005702 cm/sec

Solution Method Hvorslev

y0 = 0.6245 ft

Data Set: U:\16059\data\Slug test\MW2rising.aqt

Title: MW-2 RisingHead Test

Date: 11/28/06 Time: 09:14:28

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Buell Road, Rocheter, NY

Test Date: 10/30/02 Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 36.39 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-2

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.54 ft

Static Water Column Height: 36.39 ft

Casing Radius: 0.083 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 36.39 ft

No. of Observations: 5

0	bservation Data	

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	
0.25	0.54	3.	0.04	
1.	0.24	4.	0.01	
2.	0.09			

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter Estimate 0.0005702 cm/sec y0 0.6245 ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0005702	2.324E-5	cm/sec
y0	0.6245	0.03027	ft

Parameter Correlations

K 1.00 0.94 y0 0.94 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 3.87E-5 ft²

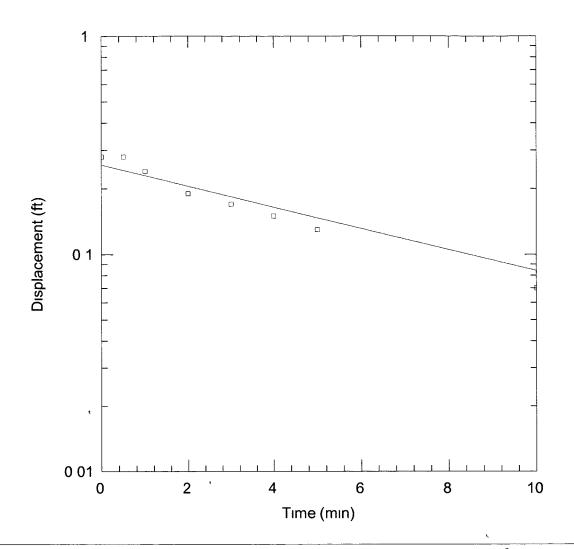
 Variance
 1.935E-5 ft²

 Std. Deviation
 0.004399 ft

 Mean
 -0.0001527 ft

 No. of Residuals
 4

No. of Residuals 4 No. of Estimates 2



MW-6 FALLING HEAD TEST

Data Set U \16059\data\Slug test\mw6fall aqt

Date 11/28/06

Time 09 54 12

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Rochester, New York

Test Well MW-6 Test Date 11/26/02

AQUIFER DATA

Saturated Thickness 4 32 ft

Anisotropy Ratio (Kz/Kr) 0 1

WELL DATA (MW-6)

Initial Displacement 0 28 ft Total Well Penetration Depth 4 32 ft

Casing Radius 0 08 ft

Static Water Column Height 4 32 ft Screen Length 14 ft

Screen Length 14 ft
Wellbore Radius 0 33 ft
Gravel Pack Porosity 0 3

SOLUTION

Aquifer Model Unconfined

K = 0.0003336 cm/sec

Solution Method Hvorslev

y0 = 0.2568 ft

Data Set: U:\16059\data\Slug test\mw6fall.aqt

Title: MW-6 Falling Head Test

Date: 11/28/06 Time: 09:54:16

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Rochester, New York

Test Date: 11/26/02 Test Well: MW-6

AQUIFER DATA

Saturated Thickness: 4.32 ft Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: : MW-6

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.28 ft

Static Water Column Height: 4.32 ft

Casing Radius: 0.08 ft Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft Screen Length: 14. ft

Total Well Penetration Depth: 4.32 ft

Corrected Casing Radius (Bouwer-Rice Method): 0.1927 ft

Gravel Pack Porosity: 0.3

No. of Observations: 7

Observation	Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.28	4.	0.15
1.	0.24	5 <i>.</i>	0.13
2.	0.19	10.	0.07
3.	0.17		

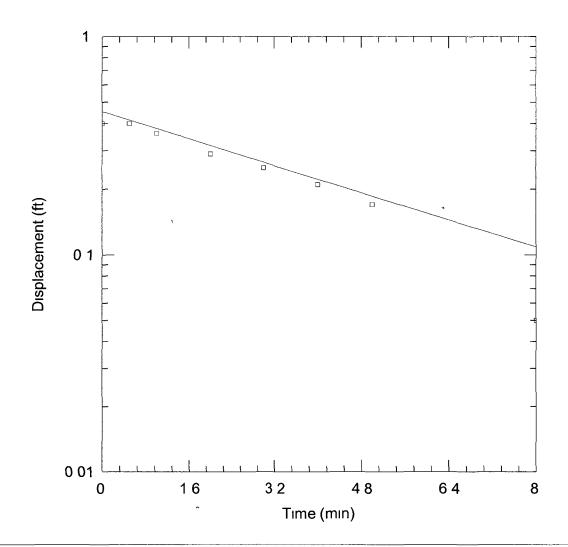
SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.441

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter Estimate K 0.0003336 cm/sec



MW-6 RISING HEAD TEST

Data Set U \16059\data\Slug test\mw6rising aqt

Date 11/28/06

Time 09 53 49

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Rochester, New York

Test Well MW-6 Test Date 11/26/02

AQUIFER DATA

Saturated Thickness 4 32 ft

Anisotropy Ratio (Kz/Kr) 0 1

WELL DATA (MW-6)

Initial Displacement 04 ft

Total Well Penetration Depth 4 32 ft

Casing Radius 0 08 ft

Static Water Column Height 4 32 ft

Screen Length 14 ft
Wellbore Radius 0 33 ft
Gravel Pack Porosity 0 3

SOLUTION

Aquifer Model Unconfined

K = 0.0005339 cm/sec

Solution Method Hvorslev

y0 = 0.453 ft

Data Set: U:\16059\data\Slug test\mw6rising.aqt

Title: MW-6 Rising Head Test

Date: 11/28/06 Time: 09:53:53

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Rochester, New York

Test Date: 11/26/02 Test Well: MW-6

AQUIFER DATA

Saturated Thickness: 4.32 ft Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: : MW-6

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.4 ft

Static Water Column Height: 4.32 ft

Casing Radius: 0.08 ft Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft Screen Length: 14. ft

Total Well Penetration Depth: 4.32 ft

Corrected Casing Radius (Bouwer-Rice Method): 0.1927 ft

Gravel Pack Porosity: 0.3

No. of Observations: 7

Obser	vation	Data
0 200.		_ ~.~

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.4	4.	0.21
1.	0.36	5.	0.17
2.	0.29	8.	0.05
3.	0.25		

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.441

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Κ	0.0005339	cm/sec

y0

0.453

ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0005339	5.951E-5	cm/sec
у0	0.453	0.02939	ft

Parameter Correlations

K y0 K 1.00 0.84 y0 0.84 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.001707 ft²

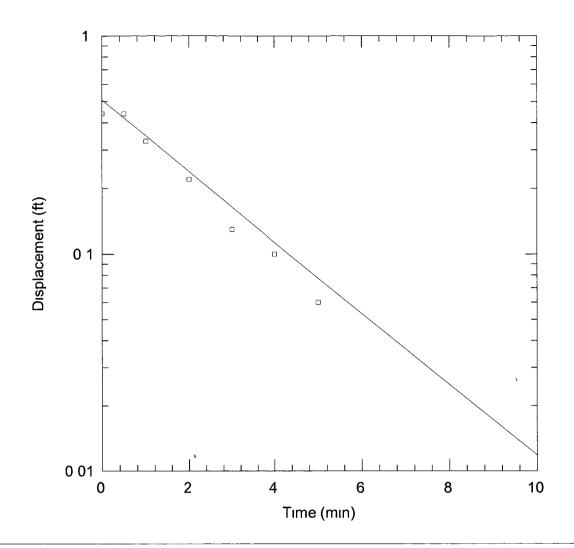
 Variance
 0.0004267 ft²

 Std. Deviation
 0.02066 ft

 Mean
 -0.001575 ft

 No. of Residuals
 6

No. of Residuals 6 No. of Estimates 2



MW-7 FALLING HEAD TEST

Data Set U \16059\data\Slug test\mw7fall aqt

Date 11/28/06

Time 09 52 53

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Rochester, New York

Test Well $\underline{MW-7}$ Test Date $\underline{11/26/02}$

AQUIFER DATA

Saturated Thickness 15 52 ft

Anisotropy Ratio (Kz/Kr) 0 1

WELL DATA (MW-7)

Initial Displacement 0 44 ft

Total Well Penetration Depth 15 52 ft

Casing Radius 0 08 ft

Static Water Column Height 15 52 ft

Screen Length 15 ft Wellbore Radius 0 33 ft

SOLUTION

Aquifer Model Unconfined

K = 0.0002306 cm/sec

Solution Method Hvorslev

y0 = 0.5075 ft

Data Set: U:\16059\data\Slug test\mw7fall.aqt

Title: MW-7 Falling Head Test

Date: 11/28/06 Time: 09:52:58

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Rochester, New York

Test Date: 11/26/02 Test Well: MW-7

AQUIFER DATA

Saturated Thickness: 15.52 ft Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: : MW-7

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.44 ft

Static Water Column Height: 15.52 ft

Casing Radius: 0.08 ft Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft Screen Length: 15. ft

Total Well Penetration Depth: 15.52 ft

No. of Observations: 7

	Observation	on Data	
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.44	4.	0.1
1.	0.33	5.	0.06
2.	0.22	10.	0.
3	0.13		

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 5.661

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0002306	cm/sec
y0	0.5075	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0002306	1.023E-5	cm/sec
y0	0.5075	0.01852	ft

Parameter Correlations

K 1.00 0.87 y0 0.87 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.0002508 ft²

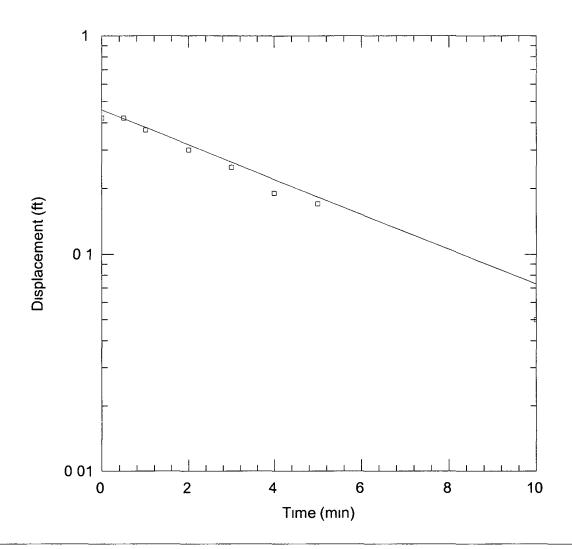
 Variance
 6.271E-5 ft²

 Std. Deviation
 0.007919 ft

 Mean
 -0.0008163 ft

 No. of Residuals
 6

No. of Residuals 6 No. of Estimates 2



MW-7 RISING HEAD TEST

Data Set U \16059\data\Slug test\mw7rising aqt

Date 11/28/06

Time 09 52 28

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Rochester, New York

Test Well MW-7
Test Date 11/26/02

AQUIFER DATA

Saturated Thickness 15 52 ft

Anisotropy Ratio (Kz/Kr) 0 1

WELL DATA (MW-7)

Initial Displacement 0 42 ft

Total Well Penetration Depth 15 52 ft

Casing Radius 0 08 ft

Static Water Column Height 15 52 ft

Screen Length 15 ft Wellbore Radius 0 33 ft

SOLUTION

Aquifer Model <u>Unconfined</u>

K = 0.0001126 cm/sec

Solution Method Hvorslev

y0 = 0.4576 ft

Data Set: U:\16059\data\Slug test\mw7rising.aqt

Title: MW-7 Rising Head Test

Date: 11/28/06 Time: 09:52:34

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Rochester, New York

Test Date: 11/26/02 Test Well: MW-7

AQUIFER DATA

Saturated Thickness: 15.52 ft Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: : MW-7

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.42 ft

Static Water Column Height: 15.52 ft

Casing Radius: 0.08 ft Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft Screen Length: 15. ft

Total Well Penetration Depth: 15.52 ft

No. of Observations: 7

	Observation	on Data	
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.42	4.	0.19
1.	0.37	5.	0.17
2	0.2	10	0.05

1. 0.37 5. 0.17 2. 0.3 10. 0.05 3. 0.25

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 5.661

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	$0.00\overline{01126}$	cm/sec
y0	0.4576	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0001126	4.705E-6	cm/sec
y0	0.4576	0.01082	ft

Parameter Correlations

K y0 K 1.00 0.84 y0 0.84 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.0002294 ft²

 Variance
 5.736E-5 ft²

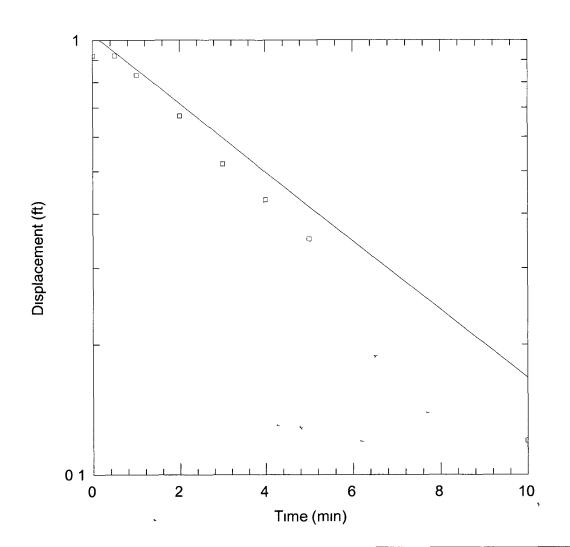
 Std. Deviation
 0.007574 ft

 Mean
 -0.0004269 ft

 No. of Residuals
 6

 No. of Estimates
 2

11/28/06



MW-8 FALLING HEAD TEST

Data Set U \16059\data\Slug test\mw8fall aqt

Date 11/28/06

Time 09 47 13

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Buell Road, Rochester New York

Test Well MW-8 Test Date 10/30/02

AQUIFER DATA

Saturated Thickness 9 85 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-8)

Initial Displacement <u>0 92</u> ft Total Well Penetration Depth <u>9 85</u> ft Casing Radius <u>0 083</u> ft Static Water Column Height 9 85 ft Screen Length 10 ft Wellbore Radius 0 333 ft Gravel Pack Porosity 0 3

SOLUTION

Aquifer Model Unconfined

K = 0.0007179 cm/sec

Solution Method Hvorslev

y0 = 1028 ft

Data Set: U:\16059\data\Slug test\mw8fall.aqt

Title: MW-8 Falling Head Test

Date: 11/28/06 Time: 09:47:18

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Buell Road, Rochester New York

Test Date: 10/30/02 Test Well: MW-8

AQUIFER DATA

Saturated Thickness: 9.85 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-8

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.92 ft

Static Water Column Height: 9.85 ft

Casing Radius: 0.083 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 9.85 ft

Corrected Casing Radius (Bouwer-Rice Method): 0.1952 ft

Gravel Pack Porosity: 0.3

No. of Observations: 7

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Obscivation	JII Data	
Displacement (ft)	Time (min)	Displacement (ft)
0.92	4.	0.43
0.83	5.	0.35
0.67	10.	0.12
0.52		
	Displacement (ft) 0.92 0.83 0.67	0.92 0.83 0.67 4. 5. 10.

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0007179	cm/sec

y0

1.028

ft

AUTOMATIC ESTIMATION RESULTS

......

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0007179	1.091E-5	cm/sec
y0	1.028	0.007472	ft

Parameter Correlations

K 1.00 0.76 y0 0.76 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.0002864 ft²

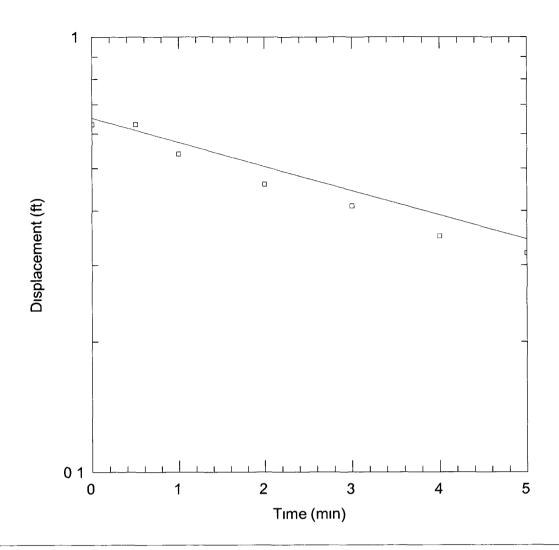
 Variance
 5.727E-5 ft²

 Std. Deviation
 0.007568 ft

 Mean
 0.0003445 ft

 No. of Residuals
 7

No. of Residuals 7 No. of Estimates 2



MW-8 RISING HEAD TEST

Data Set U \16059\data\Slug test\mw8rising aqt

Date 11/28/06

Time 09 47 33

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Buell Road, Rochester New York

Test Well MW-8 Test Date 10/30/02

AQUIFER DATA

Saturated Thickness 9 85 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-8)

Initial Displacement 0 63 ft

Total Well Penetration Depth 9 85 ft

Casing Radius 0 083 ft

Static Water Column Height 9 85 ft

Screen Length 10 ft
Wellbore Radius 0 333 ft
Gravel Pack Porosity 0 3

SOLUTION

Aquifer Model <u>Unconfined</u>

K = 0.0005053 cm/sec

Solution Method Hvorslev

y0 = 0.6516 ft

Data Set: U:\16059\data\Slug test\mw8rising.aqt

Title: MW-8 Rising Head Test

Date: 11/28/06 Time: 09:47:37

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Buell Road, Rochester New York

Test Date: 10/30/02 Test Well: MW-8

AQUIFER DATA

Saturated Thickness: 9.85 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-8

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.63 ft

Static Water Column Height: 9.85 ft

Casing Radius: 0.083 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 9.85 ft

Corrected Casing Radius (Bouwer-Rice Method): 0.1952 ft

Gravel Pack Porosity: 0.3

No. of Observations: 6

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.63	3.	0.41
1.	0.54	4.	0.35
2.	0.46	5.	0.32

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0005053	cm/sec
vΩ	0.6516	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0005053	4.288E-5	cm/sec
y0	0.6516	0.01987	ft

Parameter Correlations

K <u>y0</u> K 1.00 0.80 y0 0.80 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.001751 ft²

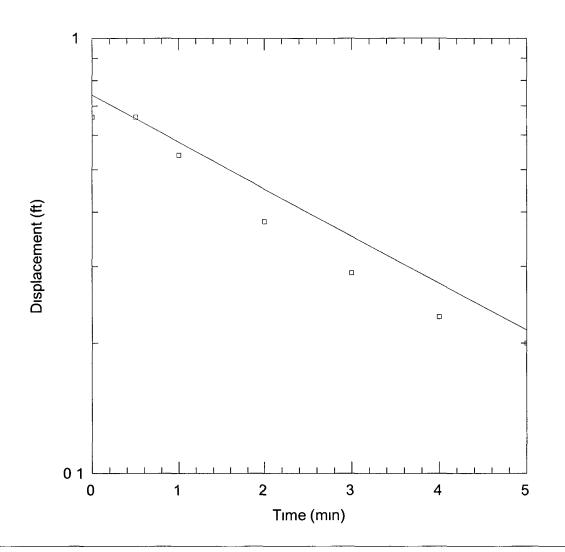
 Variance
 0.0004378 ft²

 Std. Deviation
 0.02092 ft

 Mean
 0.0003066 ft

 No. of Residuals
 6

No. of Residuals 6 No. of Estimates 2



MW-9 FALLING HEAD TEST

Data Set U \16059\data\Slug test\mw9fall aqt

Date 11/28/06

Time 09 48 36

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Buell Road, Rochester New York

Test Well MW-9 Test Date 10/30/02

AQUIFER DATA

Saturated Thickness 10 01 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-9)

Initial Displacement 0 66 ft

Total Well Penetration Depth 1001 ft

Casing Radius 0 083 ft

Static Water Column Height 10 01 ft

Screen Length 10 ft

Wellbore Radius 0 333 ft

SOLUTION

Aquifer Model Unconfined

K = 0.0001778 cm/sec

Solution Method Hvorslev

y0 = 0.7412 ft

Data Set: U:\16059\data\Slug test\mw9fall.aqt

Title: MW-9 Falling Head Test

Date: 11/28/06 Time: 09:48:40

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Buell Road, Rochester New York

Test Date: 10/30/02 Test Well: MW-9

AQUIFER DATA

Saturated Thickness: 10.01 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-9

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.66 ft

Static Water Column Height: 10.01 ft

Casing Radius: 0.083 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 10.01 ft

No. of Observations: 6

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.66	3.	0.29
1.	0.54	4.	0.23
2.	0.38	5.	0.2

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

 Parameter
 Estimate

 K
 0.0001778
 cm/sec

 y0
 0.7412
 ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
- K	0.0001778	1.317E-5	cm/sec
y0	0.7412	0.02939	ft

Parameter Correlations

K y0 K 1.00 0.77 y0 0.77 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.002652 ft²

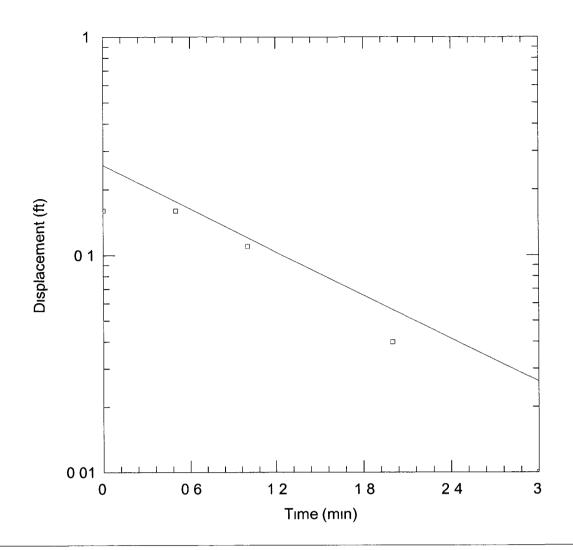
 Variance
 0.000663 ft²

 Std. Deviation
 0.02575 ft

 Mean
 0.001707 ft

 No. of Residuals
 6

 No. of Estimates
 2



MW-9 RISING HEAD TEST

Data Set U \16059\data\Slug test\mw9rising aqt

Date 11/28/06

Time 09 48 57

PROJECT INFORMATION

Company Stantec

Client Buell Automatics

Project 16059

Location Buell Road, Rochester New York

Test Well MW-9
Test Date 10/30/02

AQUIFER DATA

Saturated Thickness 10 01 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-9)

Initial Displacement 0 16 ft
Total Well Popetration Depth 10 0

Total Well Penetration Depth 10 01 ft

Casing Radius 0 083 ft

Static Water Column Height 10 01 ft

Screen Length 10 ft Wellbore Radius 0 333 ft

SOLUTION

Aquifer Model <u>Unconfined</u>

K = 0.0005456 cm/sec

Solution Method Hvorslev

y0 = 0.2581 ft

Data Set: U:\16059\data\Slug test\mw9rising.aqt

Title: MW-9 Rising Head Test

Date: 11/28/06 Time: 09:49:03

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics

Project: 16059

Location: Buell Road, Rochester New York

Test Date: 10/30/02 Test Well: MW-9

AQUIFER DATA

Saturated Thickness: 10.01 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-9

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 0.16 ft

Static Water Column Height: 10.01 ft

Casing Radius: 0.083 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 10.01 ft

No. of Observations: 4

Observation Data

	0000114110	ni Data	
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.16	2.	0.04
1.	0.11	3.	0.01

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

 Parameter
 Estimate

 K
 0.0005456
 cm/sec

 y0
 0.2581
 ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0005456	5.358E-5	cm/sec
y0	0.2581	0.019	ft

Parameter Correlations

K 1.00 0.87 y0 0.87 1.00

Residual Statistics

for weighted residuals

 Sum of Squares
 0.0001003 ft²

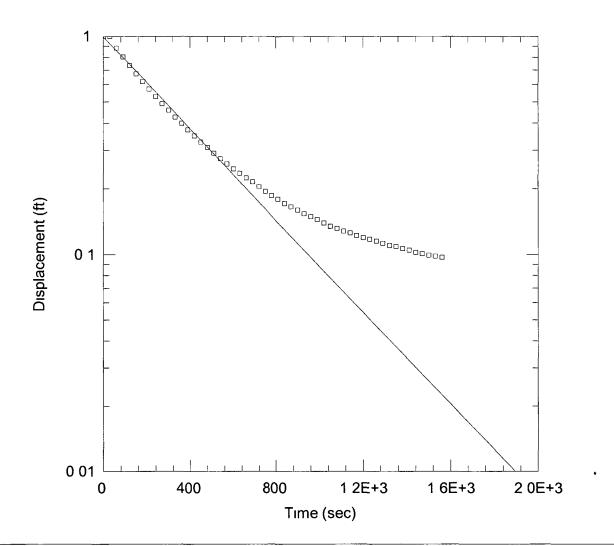
 Variance
 5.017E-5 ft²

 Std. Deviation
 0.007083 ft

 Mean
 -0.001091 ft

 No. of Residuals
 4

 No. of Estimates
 2



MW-17 FALLING HEAD TEST

Data Set U \16059\data\Slug test\mw17fall aqt

Date 11/28/06

Time 09 50 04

PROJECT INFORMATION

Company Stantec

Client Buell Automatics
Project 190500033

Location Rochester, NY

Test Well MW-17
Test Date 4/28/06

AQUIFER DATA

Saturated Thickness 13 75 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-17)

Initial Displacement 1 ft

Total Well Penetration Depth 13 75 ft

Casing Radius 0 0833 ft

Static Water Column Height 13 75 ft

Screen Length 10 ft

Wellbore Radius 0 333 ft

SOLUTION

Aquifer Model <u>Unconfined</u>

K = 0.0001051 cm/sec

Solution Method Hvorslev

y0 = 0.9946 ft

Data Set: U:\16059\data\Slug test\mw17fall.aqt

Title: MW-17 Falling Head Test

Date: 11/28/06 Time: 09:50:11

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics Project: 190500033 Location: Rochester, NY Test Date: 4/28/06 Test Well: MW-17

AQUIFER DATA

Saturated Thickness: 13.75 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 1. ft

Static Water Column Height: 13.75 ft

Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 13.75 ft

No. of Observations: 53

Observation Data

	Observation		
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.	1.	810.	0.1792
30.	0.9994	840.	0.1713
60.	0.8844	870.	0.1654
90.	0.8039	900.	0.1599
120.	0.7341	930.	0.1537
150.	0.673	960.	0.1491
180.	0.6194	990.	0.1449
210.	0.5719	1020.	0.1393
240.	0.5285	1050.	0.1347
270.	0.4909	1080.	0.1317
300.	0.458	1110.	0.128
330.	0.426	1140.	0.1255
360.	0.3994	1170.	0.1221
390.	0.3725	1200.	0.1193
420.	0.3501	1230.	0.1177
450.	0.3274	1260.	0.1153
480.	0.3096	1290.	0.1125
510.	0.291	1320.	0.1099

Time (sec) 540. 570. 600. 630. 660. 690.	Displacement (ft) 0.2749 0.2601 0.2469 0.2356 0.2244 0.2153	Time (sec) 1350. 1380. 1410. 1440. 1470. 1500.	Displacement (ft) 0.1086 0.1065 0.1046 0.1022 0.1008 0.0992
690.	0.2153	1500.	0.0992
720. 750.	0.2046 0.1947	1530. 1560.	0.0982 0.097
780.	0.1862		

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0001051	cm/sec
y0	0.9946	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Pa

rameter	Estimate	Std. Error	
K	0.0001051	2.879E-6	cm/sec
v0	0.9946	0.01996	ft

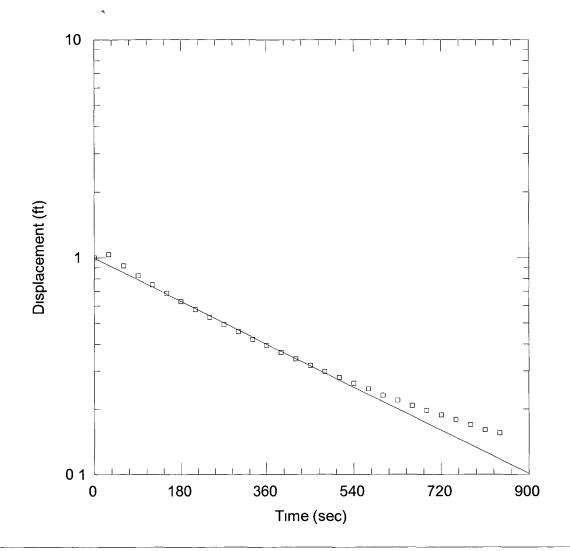
Parameter Correlations

K y0 K 1.00 0.69 y0 0.69 1.00

Residual Statistics

for weighted residuals

No. of Residuals 53 No. of Estimates 2



MW-17 RISING HEAD TEST

Data Set U \16059\data\Slug test\mw17rising aqt

Date 11/28/06

Time 09 50 28

PROJECT INFORMATION

Company Stantec
Client Buell Automatics
Project 190500033
Location Rochester, NY

Test Well MW-17
Test Date 4/28/06

AQUIFER DATA

Saturated Thickness 13 75 ft

Anisotropy Ratio (Kz/Kr) 1

WELL DATA (MW-17)

Initial Displacement 1 ft
Total Well Penetration Depth 13 75 ft
Casing Radius 0 0833 ft

Static Water Column Height 13 75 ft Screen Length 10 ft Wellbore Radius 0 333 ft

SOLUTION

Aquifer Model Unconfined

K = 0.00011 cm/sec

Solution Method Hvorslev

y0 = 0.9946 ft

Data Set: U:\16059\data\Slug test\mw17rising.aqt

Title: MW-17 Rising Head Test

Date: 11/28/06 Time: 09:50:33

PROJECT INFORMATION

Company: Stantec Client: Buell Automatics Project: 190500033 Location: Rochester, NY Test Date: 4/28/06 Test Well: MW-17

AQUIFER DATA

Saturated Thickness: 13.75 ft Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17

X Location: 0. ft Y Location: 0. ft

Initial Displacement: 1. ft

Static Water Column Height: 13.75 ft

Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft Screen Length: 10. ft

Total Well Penetration Depth: 13.75 ft

No. of Observations: 28

Observation Data

Observation Bala				
Time (sec)	Dis <u>place</u> ment (ft)	<u>Time (sec)</u>	Displacement (ft)	
30.	1.033	450.	0.3188	
60.	0.9171	480.	0.2989	
90.	0.8266	510.	0.2804	
120.	0.7508	540.	0.2638	
150.	0.6855	570.	0.2486	
180.	0.6286	600.	0.232	
210.	0.5764	630.	0.2201	
240.	0.5318	660.	0.2078	
270.	0.4925	690.	0.1978	
300.	0.456	720.	0.1882	
330.	0.4206	750.	0.1793	
360.	0.3935	780.	0.1694	
390.	0.3656	810.	0.1605	
420.	0.3415	840.	0.1552	

SOLUTION

Aquifer Model: Unconfined

Solution Method: Hvorslev

Shape Factor: 4.096

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	$\overline{0.00011}$	cm/sec
y0	0.9946	ft

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix H

Analytical Laboratory Summaries

Note: Because of the large size of Appendix H, the analytical laboratory summaries are not included in this copy of the report. A full and complete copy of Appendix H has been submitted as a separate file. The Appendix H file is named as follows:

Report.C828114.2007-12-05.RevRIR AppendixH.pdf.

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT

Appendix I

Data Usability Reports

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, N. Y. 12853
Phone 518-251-4429
Facsimile 518-251-4428

November 6, 2002

Peter Smith Sear-Brown Group 85 Metro Park Rd. Rochester, NY 14623

RE: Data Usability Summary Report for Buell Automatics site

CAS Sub. Nos. R2212007, R2213195, and R2213646

Dear Mr. Smith:

Review has been completed for the data packages generated by Columbia Analytical Services which pertain to samples collected 5/21/02 through 9/12/02 at the Buell Automatics site. Five aqueous and five soil samples were processed for full TCL/TAL analytes. Thirteen aqueous samples were processed for TCL volatiles; six of those were also analyzed for TCL semivolatiles. Ten soil samples were processed for TCL volatiles and TCL semivolatiles, and two of those were analyzed for PCBs. Three soil samples were processed for full TCL/TAL without pesticides, and three other soil samples were processed for full TCL/TAL without pesticides or PCBs. Rinse, trip, and cooler blanks were also analyzed. Methodologies used are those of the NYSDEC ASP 1995.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with limited review of sample raw data, and some review of associated QC raw data. Full validation has not been performed. However, the reported summary tables have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Field Duplicates
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- Calibration Standards
- * Instrument IDLs

pg. 2/5

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, most sample analyte values/reporting limits are usable as reported, or with minor qualification as estimated ("J" qualifier) due to processing or matrix effects. No data are rejected.

The following text discusses quality issues of concern.

Copies of the sample summary forms and lab narratives are attached to this text, and should be reviewed in conjunction with this report.

General

Correlations for all analytes in soil field duplicates XX-S-DU/MW-12-S show acceptable results. Correlations for all analytes in aqueous field duplicates XX-DU-GW/MW-2 also show acceptable values, with the exception of those for vinyl chloride (54%RPD) and cis-1,2-dichloroethane (52%RPD). Results for these two analytes in that parent sample and its field duplicate are qualified estimated.

Overall accuracy and precision results were acceptable, and there does not appear to be a significant matrix effect on sample reported results.

Sample IDs noted below are prefixed by "BU-".

TCL Volatiles by 95-1

Due to repeated elevated surrogate recoveries, results for detected (vinyl chloride, cis-1,2-dichloroethene, ethylbenzene, m,p-xylene, and o-xylene) in B-11-S are qualified estimated ("J"), with a possible high bias.

Reported results for analytes reported with the laboratory "E" qualifier are to be derived from the dilution analyses of the samples. All other results can be used from the initial analyses. The following samples are affected:

Sample ID	Analyte	Value, ug/kg or ugL
MW-8-S	trichloroethene	22,000
MW-10-S	cis(1,2-dichloroethene)	890
	trichloroethene	440
B-11-GW	cis(1,2-dichloroethene)	280
B-17-GW	cis(1,2-dichloroethene)	700
	vinyl chloride	1300
	1,1-dichloroethane	240
B-8-S	trichloroethene	14,000,000
MW-2	vinyl chloride	470
	cis(1,2-dichloroethene)	4200
MW-9	cis(1,2-dichloroethene)	220

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Due to presence in associated blanks, acetone detections in samples collected in May and September are considered contamination and results are to be edited to reflect nondetection ("U") at either the CRDL or the originally reported concentration, whichever is greater.

Similarly the detection of carbon disulfide in MW-7S is also to be edited to nondetection ("U").

The detection reported for cis(1,2-dichloroethene) in MW-12 should edited to nondetection ("10 U") as the response may be carryover from the previous sample (undiluted MW-9).

Tentatively Identified Compounds (TICs) flagged as "B" by the laboratory, or identified as isopropanol (isopropyl alcohol) are considered contamination (indicated by presence in associated blanks), and results of those TICs should be rejected from consideration as sample components.

Matrix spikes of soil samples MW-8-S (low and medium), B-16-S (low), B-9-S (medium), aqueous samples B-11-GW and MW-13, and rinse blank XX-S-RB showed acceptable recoveries and duplicate correlations.

Holding time and instrument tune criteria were met. Internal standard recoveries were within required range. Initial and continuing calibration standards showed acceptable response factors, linearity, and daily variances that do not significantly impact reported results.

Some of the samples were processed as a medium level due to high concentrations of matrix interferences.

The entry for dilution factor for MW-8 should have been "20".

Semivolatile Analyses by ASP 95-2

Some of the soil samples collected in August were extracted in a batch in which the method blank and spiked blank showed poor and comparable recoveries for surrogate and matrix spike analytes (all were above 18%). The samples and the sample matrix spikes produced acceptable and comparable recoveries. The reextractions of the samples and associated QC show acceptable recoveries, but were performed outside the usable holding time. Evaluation of the data show the initial blank and spiked blank failures are extract specific, and do not imply lack of integrity of the associated samples. The acceptable results of the sample matrix spikes and all sample surrogates in the initial extraction allow for batch acceptance, and no qualification is recommended. Initial results (not "-RE") should be used for those samples.

Sample B-16-S exhibited two elevated internal standard recoveries. Sample reported results are unaffected, as the only detection (a phthalate) is already qualified estimated due to value below CRDL.

Matrix spikes of B-16-S, MW-8S, and MW-13-GW show acceptable accuracy and precision, with the exception of slightly elevated recoveries or duplicate correlations for analytes not detected in the samples. Reported results are unaffected.

pg. 4/5

Due to low recoveries (20% to 36%, below 41%) in the associated spiked blank control, the results for n-nitroso-di-n-propylamine for all samples collected in May and September are qualified estimated ("UJ"), with a low bias.

The detections of di-n-butylphthalate in the samples are considered contamination and edited to nondetection ("U") at the CRDL.

Tentatively Identified Compounds (TICs) flagged as "A" or "B" by the laboratory are considered extraction artifacts or contamination (indicated by presence in associated blanks), and results should be rejected as sample components.

Initial and continuing calibration standards showed acceptable response factors, linearity, and daily variances that do not significantly impact reported results. Instrument tune criteria were met.

TCL Pesticide/PCB Analyses by 95-3

Due to the matrix effect on baseline response and potential masking of analyte response, the pesticide/PCB reporting limits in sample B-16-S are to be qualified estimated ("UJ").

Due to the matrix effect on baseline response and potential masking of analyte response, the pesticide/PCB reporting limits for the following analytes in sample MW-10-S are to be qualified estimated ("UJ"): endosulfan I, dieldrin, endrin, m 4,4'-DDD, and 4,4'-DDT.

Pesticide matrix spikes of MW-8S and MW-13, and Aroclor 1260 matrix spikes of B-16-S show acceptable accuracy and precision.

Holding times were met, and blanks show no contamination. Calibration standards showed acceptable linearity and consistency, and instrument performance (resolution and breakdown) and cleanup recoveries were good.

Although the laboratory deliverables meet requirements, they do not allow for independent verification of nondetected results in samples showing matrix responses (integration output is edited to reflect only detections reported by analyst). If full validation is required, some additional raw data items would be needed.

One of the samples was doubled spiked with surrogates, creating a less strict monitoring compound evaluation. Review of the sample data indicates no significant effect on the sample reported results.

TAL Metals/CN by CLP-M

Metals/cyanide matrix spikes for MW-8-S low recovery for antimony (40%), and elevated recovery for manganese (156%). Results for those two elements in the samples are therefore qualified estimated ("J" and "UJ"). Matrix spike metal and cyanide recoveries of MW-13, and ICP post-digest recoveries of B-13-S and B-16-S were acceptable. Duplicate correlations were acceptable for all.

The ICP serial dilutions of MW-8-S, B-13-S, and MW-13 showed all acceptable correlations.

GFAA post-digest spikes for the following analyte results were low (below 85%, but above 64%), and results are to be qualified estimated ("J" or "UJ"): selenium in MW-7-S, MW-8-S, MW-12-S, MW-13, MW-2, MW-8, and DU-GW thallium in MW-8S, MW-13S, and MW-S-DU

Holding times and instrument performance were acceptable.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

BATCH COMPLETE: __yes____ SDG #:55341 CASE No.: DATE REVISED: DISKETTE REQUESTED: Y_x_ N___ SUBMISSION R2212007 DATE DUE: 6/11/02 CLIENT: Sear-Brown Group DATE: 05/28/02 PROTOCOL: ASP-B CLIENT REP: Karen Bunker CUSTODY SEAL: PRESENT/ABSENT: SHIPPING No.: PROJECT: BUELL AUTOMATICS CHAIN OF CUSTODY: PRESENT/ABSENT: CAS JOB # CLIENT/EPA ID MATRIX REQUESTED PARAMETERS DATE DATE Нq REMARKS SOLIDS SAMPLE CONDITION SAMPLED RECEIVED (SOLIDS) 553417 BU-MW7-S 95-1, 95-2, mets, TCN SOIL 5/21/02 5/21/02 SOIL QC,95-1, 95-2,95-3 mets,TCN 5/21/02 5/21/02 553421 BU-MW8-S 1. BU-MW12-S 553430 SOIL 95-1, 95-2, mets, TCN 5/22/02 5/22/02 95-1, 95-2,95-3 mets, TCN 5/21/02 5/21/02 553431 BU-MW13-S SOIL 95-1,95-2,mets,tcn 5/22/02 5/22/02 553432 BU-XX-S-DU SOIL .سسا 95-1, 95-2,95-3 mets TCN | 5/22/02 | 5/22/02 553433 BU-XX-S-RB WATER 553434 COOLER BLANK WATER 95-1 5/22/02 5/22/02

005

BATCH COMPLETE: YES 5DG #:574625 DATE REVISED: 8/13/02 DISKETTE REQUESTED: Y_X__ N___ DATE DUE: 4 WEEKS SUBMISSION R2213195 DATE: 8/9/02 PROTOCOL: ASP-B Sear-Brown Group CLIENT: CUSTODY SEAL: PRESENT/ABSENT: SHIPPING No.: CLIENT REP: Karen Bunker CHAIN OF CUSTODY: PRESENT/ABSENT: SUMMARY PKG: Y X N PROJECT: BUELL AUTOMATICS CAS JOB # CLIENT/EPA ID MATRIX REQUESTED PARAMETERS DATE DATE REMARKS Нq SAMPLED RECEIVED (SOLIDS | SOLIDS | SAMPLE CONDITION SOTL 95-1, 95-2 8/5/02 8/6/02 574625 BU-MW2D-S SOIL 95-1, 95-2, TAL INOR 95-3 8/5/02 | 8/6/02 574626 BU-MW10-S SOIL 95-1, 95-2 8/6/02 8/6/02 574627 BU-MW9-S COOLER BLANK WATER 95-1 574628 SOIL 95-1, 95-2 8/7/02 8/9/02 575470 BU-MW11-S SOIL 95-1, 95-2 8/8/02 8/9/02 BU-MW6-S 575471 SOIL 8/8/02 8/9/02 BU-B11-S 95-1, 95-2 575472 WATER 95-1 MS/MSD 8/8/02 8/9/02 575474 BU-B11-GW 8/8/02 8/9/02 95-1,95-2 BU-B12-S SOIL 575475 8/9/02 SOIL 95-1, 95-2, TAL INOR 95-3 8/8/02 575477 BU-B13-S 8/8/02 8/9/02 WATER 95-1 575478 BU-B13-GW 8/9/02 95-1, 95-2, TAL INOR 95-3PCB 8/8/02 SOIL BU-B14-S 575481 8/9/02 95-1 8/8/02 WATER BU-B14-GW 575482 95-1, 95-2, TAL INOR 95-3PCB 8/8/02 8/9/02 SOIL 575483 BU-B18-S 95-1 8/8/02 8/9/02 BU-B18-GW WATER 575484 95-1 8/8/02 8/9/02 WATER 575485 TRIP BLANK 8/9/02 8/9/02 95-1,95-2,95-3PCB'S SOIL BU-B15-S 575806 17 8/9/02 8/9/02 WATER 95-1 575809 BU-B15-GW 95-1,95-2,95-3PCB'S QC 8/9/02 8/9/02 SOIL OC BU-B16-S 575817 8/9/02 8/9/02 WATER 95-1 BU-B16-GW 575820 8/9/02 95-1,95-2,95-3PCB'S,TAL INOR 8/9/02 SOIL BU-B17-S 575823 8/9/02 8/9/02 95-1 WATER BU-B17-GW 575824 95-1 8/9/02 8/9/02 WATER 575825 TRIP BLANK 8/9/02 95-1 8/9/02 WATER BU-B16-W-RB 575826 8/12/02 8/12/02 95-1,95-2 SOIL BU-B8-S 576163 95-1,95-2005 1.05 8/12/02 8/12/02 SOIL BU-B-9-S 576164 95-1,95-2,95-3PCB, TAL INORG 8/12/02 8/12/02 SOIL BU-10-S 576165 AS PER CLIENT: VOC'S B-11- B18 ELEVATED

BATCH C OMPLETE: yES SDG #:582995 DATE REVISED: 9/16/02 DISKETTE REQUESTED: Y_X__ N___ SUBMISSION R2213646 DATE DUE: 4WEEKS DATE: 9/13/02 Sear-Brown Group PROTOCOL: ASP-B CLIENT: CLIENT REP: Karen Bunker CUSTODY SEAL: PRESENT/ABSENT: SHIPPING No.: BUELL AUTOMATICS #16059 CHAIN OF CUSTODY: PRESENT/ABSENT: PROJECT: SUMMARY PKG: Y X CAS JOB # | CLIENT/EPA ID MATRIX REOUESTED PARAMETERS DATE DATE 용 REMARKS Нq SAMPLED | RECEIVED | (SOLIDS | SOLIDS SAMPLE CONDITION 582995 BU-MW2-GW WATER 95-1, 95-2, 95-3 9/10/02 | 9/10/02 582996 BU-MW5-GW WATER 95-1, 95-2, 95-3 9/10/02 | 9/10/02 582997 BU-MW8-GW WATER 95-1, 95-2, 95-3 9/10/02 | 9/10/02 582998 BU-MW13-GW WATER 95-1, 95-2, 95-3 QC 9/10/02 9/10/02 582999 BU-XX-GW-DU WATER 95-1, 95-2 95-3 9/10/02 9/10/02 WATER 95 - 1583000 TRIP BLANK 9/10/02 | 9/10/02 583001 COOLER BLANK WATER 95-1 9/11/02 9/11/02 9/11/02 9/12/02 583615 BU-MW10-GW WATER 95-1, 95-2 583617 BU-MW9-GW WATER 95-1, 95-2 9/11/02 | 9/12/02 583618 BU-MW12-GW WATER 95-1, 95-2 9/11/02 9/12/02 BU-MW7-GW WATER 95-1, 95-2 9/11/02 | 9/12/02 583619 BU-MW6-GW WATER 95-1, 95-2 9/11/02 | 9/12/02 583621 95-1, 95-2 9/12/02 9/12/02 WATER 583622 BU-MW1-GW 9/12/02 9/12/02 583636 BU-MW13-GW WATER TAL INORGANICS QC TAL INORGANICS 9/12/02 9/12/02 WATER 583637 BU-MW2-GW WATER TAL INORGANICS 9/12/02 9/12/02 583638 BU-MW5-GW TAL INORGANICS 9/12/02 | 9/12/02 WATER 583640 BU-MW8-GW TAL INORGANICS 9/12/02 9/12/02 WATER 583641 BU-DUP-GW WATER 95 - 19/12/02 | 9/12/02 583664 TRIP BLANK

582995.XLS 9/16/02

COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2212007 SDG#: 55341

Soil and water samples were collected by Sear Brown on 05/21-22/02 and received at CAS on the same day as sampled in good condition at cooler temperatures of 2 and 6 °C respectively. The CAS CLP Batching sheet is included for a cross-reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were intact upon receipt. All soil results are reported on a dry weight basis.

VOLATILE ORGANICS

Five (5) soil samples, one (1) water and a Cooler Blank were analyzed by NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also done.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within holding time for ASP protocol.

Site Specific QC was performed on soil location BU-MW8-S (CAS Order # 553421) and water location BU-XX-S-RB (CAS Order # 553433). All Matrix Spike and Matrix Spike Duplicate recoveries and RPD values were within limits except for the soil Trichloroethene that was spiked overrange. The MS and MSD were repeated on a diluted sample and were acceptable. Both sets of QC data are included in the package. All Blank Spike recoveries were within acceptance limits.

The water vial was tested for preservation after analysis and had a pH of <2.

Hits below the CRDL are flagged as "J".

Hits above the calibration range of the standards are flagged as "E". The sample is then reanalyzed at a dilution and reported with the suffix "DL" on the location ID.

The Method Blank from 5/28/02 contained a hit for Acetone at the detection limit of the compound. All Acetone hits in the samples are flagged as "B", found in the associated blank.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 10 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated.

The Cooler Blank for this project had 2 TIC's in the Library Search labeled as "unknown Freon." This was apparently due to a faulty cooler unit and therefore the hits should be considered a probable laboratory contaminant. No samples were affected.

No other problems were encountered during the analysis of these samples.

Page 2 CAS Submission # R2212007 continued

SEMIVOLATILE ORGANICS

Five (5) soils and one (1) water sample were analyzed for Target Compound List (TCL) of volatile organics by NYS ASP 95-2. Library Searches were also done.

All DFTPP tuning criteria were within acceptance limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

All samples were analyzed within ASP holding times.

Site QC was performed on location BU-MW8-S (CAS Order # 553421). All Matrix Spike and Matrix Spike Duplicate recoveries were within limits. All Relative Percent Difference values exceeded limits. The MSD recoveries were generally lower recoveries than the MS sample. All RPD values are flagged as "*".

Method Blanks were free from contamination down to the CRDL. Hits were detected below the CRDL for Di -N-Butylphthate and are flagged as "J". Two Library Search TIC compounds were detected in SBLK1.

The Blank Spike recoveries for SBLK1 were all within QC limits except for N-Nitroso-Di-n-propylamine which was outside limits for the Spike and Duplicate Spike recoveries. The exceedences have been flagged with an "*". The percent RPD's were all acceptable. SBLK2 was not spiked.

The GPC Blank contained a hit for Bis-(2-ethylhexyl)Phthalate of 11 ppb greater than the limit of 10 ppb. Affected samples are flagged as "B" for hits of this compound.

Library Searches against the NBS/EPA library were conducted on all samples, reanalyzes, and blanks for 95-2 analysis. The 25 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated. A presumed identification of a compound is also flagged as "N".

No other analytical or QC problems were encountered.

PESTICIDE/PCB ANALYSIS

Two (2) soils and one (1) water sample were analyzed for Pesticides/PCBs by NYS ASP 95-3.

The initial and continuing calibration criteria were met for all analytes.

ASP holding times for these methods were met.

All surrogate standard recoveries were within QC limits. The sample BU-MW8-S and LCSD were double spiked with surrogates. The recoveries were adjusted accordingly.

Page 3 CAS Submission # R2212007 continued

Matrix Spike and Matrix Spike Duplicates were performed on location BU-MW8-S (CAS Order # 553433). All recoveries and RPD's were within acceptance limits. The Blank Spike (LCS) for this run had acceptable recoveries. The Blank Spike Duplicate (LCSD) was not spiked due to laboratory error. The % RPD's cannot be calculated accurately due to this error.

No other analytical or QC problems were encountered.

METALS ANALYSIS

Five (5) soil and one (1) water sample were analyzed for TAL Metals using NYSDEC 1995 ASP protocol. Mercury was analyzed by the cold vapor methodology. Arsenic, Selenium, and Thallium were analyzed by GFAA and all other metals were analyzed by ICP.

The matrix spike and duplicate analyses was performed on sample BU-MW8-S (CAS Order # 553433). All blank spike recoveries (LCS) were within QC limits. All Matrix Spike Recoveries were within QC limits except the Matrix spike recoveries for Antimony and Manganese. These results were flagged with an "N". The matrix spike recovery for Aluminum, Calcium, Magnesium, and Iron could not be accurately calculated due to the amount of analyte detected in the sample versus the spike amount added. The percent RPD from the duplicate analyses were all within the 20 % QC limit. Several Selenium and Thallium results were flagged with a "W" indicating the GFAA post digestion spike was low.

The protocol holding time was met for all samples.

No other analytical or QC problems were encountered.

MISC. INORGANIC ANALYSES

Five (5) soils and one (1) water sample were analyzed for Total Cyanide by SW-846 method 9012 using NYSDEC 1995 ASP protocol.

Site specific QC was analyzed on sample BU-MW8-S. All Matrix spike and Blank Spike recoveries (LCS) were acceptable.

The holding time was met for all samples.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry

Laboratory Manage

COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2213195 SDG#: 574625

Soil and water samples were collected by Sear Brown on 8/5-9/02 and 8/12/02 and received at CAS over the period 8/6, 9, 12/02. All samples were received unbroken, in good condition at cooler temperatures ranging from 2 - 5 °C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were intact on all coolers upon receipt for all samples except for one location and trip blank received on 8/9/02, which did not have a seal on the cooler. All soil results are reported on a dry weight basis. An ASP deliverable package B is provided.

VOLATILE ORGANICS

Sixteen (16) soil samples, ten (10) waters and a Cooler Blank were analyzed by NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable except for B11-S Bromofluorobenzene (CAS Order # 574472) which was above acceptance limits. The recovery has been flagged "*" on Form 2B. The repeat analysis confirmed the exceedence and "B11-SRE" is also flagged as "*".

All samples were run within holding time for ASP protocol.

Site Specific QC was performed on low level soil location BU-16-S (CAS Order # 575817), water location BU-B11-GW (CAS Order # 575474) and medium level soil location BU-B-9-S. All Matrix Spike and Matrix Spike Duplicate recoveries and RPD values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

The water vials were tested for preservation after analysis to preserve the integrity of the samples. Six were found to have a pH of >2, however all were run within 7 days of sample collection.

Hits below the CRDL are flagged as "J".

Hits above the calibration range of the standards are flagged as "E". The sample is then reanalyzed at a dilution and reported with the suffix "DL" on the location ID. Analytes are flagged with a "D".

All Method Blanks were free from Target Compound contamination. Low Level soil blanks 01, 02, and 03 contained hits for the TIC compound 1-Propanol. Medium Level soil blank 2 contained a TIC hit for an unknown compound.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

Page 2 CAS Submission # R2213195 continued

Medium level soils were analyzed using 1 gram of representative sample. Low level soils were analyzed using 5 grams of representative sample. All data is reported based on the dry weight calculation for the sample. The % Moisture is noted on the soil Form 1.

The Cooler Blank for this project was free of contamination from Target Compounds and TIC's.

The Trip Blanks and Rinse Blank were free of contamination from Target Compounds and TIC's.

No other problems were encountered during the analysis of these samples.

SEMIVOLATILE ORGANICS

Sixteen (16) soils were analyzed for Target Compound List (TCL) of volatile organics by NYS ASP 95-2. Library Searches were also performed. A GPC cleanup was done on all soil samples.

All DFTPP tuning criteria were within acceptance limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits except for the following:

Soil Blank1-S1, S4, S5, S6; Soil Blank1MS - S1, S4, S5, S6; MW9-S-S4; B-9-S - S5; and 10-S -S5.

All exceedences were flagged with an "*" on Form 2D. Location B8-SRE (CAS Order # 576163) surrogates were all diluted and flagged as "D".

The Blank Spike recoveries for SBLK1MS were all within QC limits except for N-Nitroso-Di-n-propylamine, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, and Acenaphthene. The exceedences have been flagged with an "*". The Blank Spike recoveries for SBLK1MSRE were all within QC limits except 4-Chloro-3-methylphenol, 4-Nitrophenol, and Pentachlorophenol, which were outside acceptance limits, high. No data was affected. They were flagged with an "*".

All samples were initially extracted and analyzed within ASP holding times. All samples were reextracted and the analysis was repeated due to the surrogate failures and the blank spike failures. This re-extraction was done outside of holding time. The re-extracted sample is designated with the suffix "RE". Both sets of data are included in the report package and both sets agree numerically.

Several samples were re-extracted and reanalyzed at dilutions due to matrix interference from non-target analytes.

Site QC was performed on location BU16-S (CAS Order # 575817). All Matrix Spike and Matrix Spike Duplicate recoveries were within limits. All Relative Percent Difference values were within limits except for 4-Chloro-3-methylphenol and Acenapthene. The RPD is flagged as "*". All MS/MSD recoveries and RPD values were within limits for the repeated analysis, B16-SRE.

Page 3 CAS Submission # R2213195 continued

Method Blanks were free from contamination down to the CRDL. One and three Library Search TIC compounds were detected respectively in SBLK1 and SBLK1RE.

Library Searches against the NBS/EPA library were conducted on all samples, reanalyzes, and blanks for 95-2 analysis. The 30 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated. A presumed identification of a compound is also flagged as "N".

No other analytical or QC problems were encountered.

PESTICIDE/PCB ANALYSIS

Three (3) soil samples were analyzed for Pesticides/PCBs by NYS ASP 95-3. Five (5) additional samples were analyzed for PCB's only by the same method. Location BU-10-S was extracted for PCB's only in error. Therefore Site Specific Pesticide QC was not performed on this location only PCB matrix QC was done. The extract was analyzed for Pesticides/PCB's as requested by the client.

The initial and continuing calibration criteria were met for all analytes.

ASP holding times for these methods were met.

All surrogate standard recoveries were within QC limits.

Blank Spike and Blank Spike Duplicates were performed for Pests/PCB's. All recoveries and RPD's were within acceptance limits. The Blank Spike (LCS) for this run had acceptable recoveries.

Site QC was performed for PCB's. Matrix Spike and Matrix Spike Duplicate were done for location BU-B16S (CAS Order # 575817). The Recoveries and RPD are within QC acceptance limits.

No other analytical or QC problems were encountered.

METALS ANALYSIS

Six (6) soil samples were analyzed for TAL Metals using NYSDEC 1995 ASP protocol. Mercury was analyzed by the cold vapor methodology and all other metals were analyzed by ICP.

All blank spike recoveries (LCS) were within QC limits.

The protocol holding time was met for all samples.

No other analytical or QC problems were encountered.

Page 4 CAS Submission # R2213195 continued

MISC. INORGANIC ANALYSES

Six (6) soil samples were analyzed for Total Cyanide by SW-846 method 9012 using NYSDEC 1995 ASP protocol.

Blank Spike recoveries (LCS) were acceptable.

The holding time was met for all samples.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry

Laboratory Manager

COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2213646 SDG#: 582995

Water samples were collected by Sear Brown on 9/10-12/02 and received at CAS on 9/10 & 12/02. All samples were received unbroken, in good condition at cooler temperatures ranging from 0 - 6 °C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were intact on all coolers upon receipt.

VOLATILE ORGANICS

Thirteen (13) waters and a Cooler Blank were analyzed using NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within holding time for ASP protocol.

Site Specific QC was performed on location BU-MW-13-GW (CAS Order # 582998). All Matrix Spike and Matrix Spike Duplicate recoveries and RPD values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

The water vials were tested for preservation after analysis to preserve the integrity of the samples. All Samples were found to have a pH of <2, except for three that were analyzed within 7 days of sample collection.

Hits below the CRDL are flagged as "J".

Hits above the calibration range of the standards are flagged as "E". The sample is then reanalyzed at a dilution and reported with the suffix "DL" on the location ID. Affected analytes are flagged with a "D" on the reanalysis form.

All Method Blanks were free from Target Compound contamination.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Cooler Blank for this project was free of contamination from Target Compounds and TIC's.

Trip Blank (9/10/02) had a hit for Acetone. Both Trip Blanks (9/10/02 and 9/12/02) had a TIC hit for Isopropyl Alcohol.

No other problems were encountered during the analysis of these samples.

Page 2 CAS Submission # R2213646 continued

SEMIVOLATILE ORGANICS

Eleven (11) waters were analyzed for Target Compound List (TCL) of volatile organics using NYS ASP 95-2. Library Searches were also performed.

All DFTPP tuning criteria were within acceptance limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

Site Specific QC was performed on location BU-MW-13GW (CAS Order #582998). All Matrix Spike and Matrix Spike Duplicate recoveries were within limits except for 4-Nitrophenol for both the MS and MSD. The recoveries are flagged "*". All Relative Percent Difference (RPD) calculations were within limits. The Blank Spike recoveries for SBLK1 and SBLK2 (spike and duplicate) were all within QC limits except for N-Nitroso-Di-n-propylamine and 4-Nitrophenol. For SBLK2 (S & D), Pentachlorophenol was also outside limits. The exceedences have been flagged with an "*". No Acid Extractable compounds were detected in the associated samples, therefore the data was acceptable.

All samples were extracted and analyzed within ASP holding times.

Method Blanks were free from contamination down to the CRDL. Di-n-Butylphthalate was detected below the CRDL for method blanks SBLK1 and SBLK2. Six (6) and four (4) Library Search TIC unknown compounds were detected respectively in SBLK1 and SBLK2. All sample hits for these compounds have been flagged "B" to denote blank contamination.

Library Searches against the NBS/EPA library were conducted on all samples, reanalyzes, and blanks for 95-2 analysis. The 30 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated. A presumed identification of a compound is also flagged as "N".

No other analytical or QC problems were encountered.

PESTICIDE/PCB ANALYSIS

Five (5) water samples were analyzed for Pesticides/PCBs using NYS ASP 95-3.

The initial and continuing calibration criteria were met for all analytes.

ASP holding times for these methods were met.

All surrogate standard recoveries were within QC limits.

Page 3 CAS Submission # R2213646 continued

A Sulfur cleanup was done on all samples.

Site Specific QC was performed on location BU-MW13-GW (CAS Order #582998). All Matrix Spike and Matrix Spike Duplicate recoveries were within acceptance limits. All RPD values were acceptable. The Blank Spike (LCS) for this run had acceptable recoveries.

All Method Blanks were free of contamination.

No other analytical or QC problems were encountered.

METALS ANALYSIS

Five (5) water samples were analyzed for TAL Metals using NYSDEC 1995 ASP protocol. Mercury was analyzed by the cold vapor methodology, Selenium was analyzed by furnace, and all other metals were analyzed by ICP.

All Initial and Continuing Calibration Verifications were within acceptance limits.

Site Specific QC was performed on location BU-MW-13-GW (CAS Order # 583636). Calcium, Magnesium, and Sodium were spiked at levels less than 5 times the concentration of the sample. All Duplicate Relative Percent Difference (RPD) calculations were within limits. The Selenium (furnace) Post Digestion Spike was outside limits. The associated sample data is flagged as "W". All Laboratory Control Sample (LCS) recoveries were within limits.

Method Blanks were free from contamination for all compounds down to the CRDL (Contract Required Detection Limit). Hits were noted between the CRDL and the Instrument Detection Limit (IDL) for some of the following Initial, Continuing or Prep Blanks: Arsenic, Antimony. Iron. Lead. Potassium, and Mercury. The affected blanks have been flagged as "B".

Samples with hits between the CRDL and IDL are also flagged as "B" for the appropriate metal.

The protocol holding time was met for all samples.

No other analytical or QC problems were encountered.

MISC. INORGANIC ANALYSES

Five (5) water samples were analyzed for Total Cyanide by SW-846 method 9012 using NYSDEC 1995 ASP protocol.

Site Specific QC was performed on location BU-MW13-GW (CAS Order# 583636). The spike recovery was within acceptance limits. Blank Spike recoveries (LCS) were acceptable.

The holding time was met for all samples.

No other analytical or QC problems were encountered.

Page 4 CAS Submission # R2213646 continued

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry

Laboratory Manager

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

November 6, 2002

Peter Smith Sear-Brown Group 85 Metro Park Rd. Rochester, NY 14623

RE: Data Usability Summary Report for Buell Automatics site

CAS Sub. Nos. R2212007, R2213195, and R2213646

Dear Mr. Smith:

Review has been completed for the data packages generated by Columbia Analytical Services which pertain to samples collected 5/21/02 through 9/12/02 at the Buell Automatics site. Five aqueous and five soil samples were processed for full TCL/TAL analytes. Thirteen aqueous samples were processed for TCL volatiles; six of those were also analyzed for TCL semivolatiles. Ten soil samples were processed for TCL volatiles and TCL semivolatiles, and two of those were analyzed for PCBs. Three soil samples were processed for full TCL/TAL without pesticides, and three other soil samples were processed for full TCL/TAL without pesticides or PCBs. Rinse, trip, and cooler blanks were also analyzed. Methodologies used are those of the NYSDEC ASP 1995.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with limited review of sample raw data, and some review of associated QC raw data. Full validation has not been performed. However, the reported summary tables have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Correlations
- Field Duplicates
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- * Calibration Standards
- * Instrument IDLs

pg. 2/5

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, most sample analyte values/reporting limits are usable as reported, or with minor qualification as estimated ("J" qualifier) due to processing or matrix effects. No data are rejected.

The following text discusses quality issues of concern.

Copies of the sample summary forms and lab narratives are attached to this text, and should be reviewed in conjunction with this report.

General

Correlations for all analytes in soil field duplicates XX-S-DU/MW-12-S show acceptable results. Correlations for all analytes in aqueous field duplicates XX-DU-GW/MW-2 also show acceptable values, with the exception of those for vinyl chloride (54%RPD) and cis-1,2-dichloroethane (52%RPD). Results for these two analytes in that parent sample and its field duplicate are qualified estimated.

Overall accuracy and precision results were acceptable, and there does not appear to be a significant matrix effect on sample reported results.

Sample IDs noted below are prefixed by "BU-".

TCL Volatiles by 95-1

Due to repeated elevated surrogate recoveries, results for detected (vinyl chloride, cis-1,2-dichloroethene, ethylbenzene, m,p-xylene, and o-xylene) in B-11-S are qualified estimated ("J"), with a possible high bias.

Reported results for analytes reported with the laboratory "E" qualifier are to be derived from the dilution analyses of the samples. All other results can be used from the initial analyses. The following samples are affected:

Sample ID	Analyte	Value, ug/kg or ugL
MW-8-S	trichloroethene	22,000
MW-10-S	cis(1,2-dichloroethene)	890
	trichloroethene	440
B-11-GW	cis(1,2-dichloroethene)	280
B-17-GW	cis(1,2-dichloroethene)	700
	vinyl chloride	1300
	1,1-dichloroethane	240
B-8-S	trichloroethene	14,000,000
MW-2	vinyl chloride	470
	cis(1,2-dichloroethene)	4200
MW-9	cis(1,2-dichloroethene)	220

pg. 3/5

Due to presence in associated blanks, acetone detections in samples collected in May and September are considered contamination and results are to be edited to reflect nondetection ("U") at either the CRDL or the originally reported concentration, whichever is greater.

Similarly the detection of carbon disulfide in MW-7S is also to be edited to nondetection ("U").

The detection reported for cis(1,2-dichloroethene) in MW-12 should edited to nondetection ("10 U") as the response may be carryover from the previous sample (undiluted MW-9).

Tentatively Identified Compounds (TICs) flagged as "B" by the laboratory, or identified as isopropanol (isopropyl alcohol) are considered contamination (indicated by presence in associated blanks), and results of those TICs should be rejected from consideration as sample components.

Matrix spikes of soil samples MW-8-S (low and medium), B-16-S (low), B-9-S (medium), aqueous samples B-11-GW and MW-13, and rinse blank XX-S-RB showed acceptable recoveries and duplicate correlations.

Holding time and instrument tune criteria were met. Internal standard recoveries were within required range. Initial and continuing calibration standards showed acceptable response factors, linearity, and daily variances that do not significantly impact reported results.

Some of the samples were processed as a medium level due to high concentrations of matrix interferences.

The entry for dilution factor for MW-8 should have been "20".

Semivolatile Analyses by ASP 95-2

Some of the soil samples collected in August were extracted in a batch in which the method blank and spiked blank showed poor and comparable recoveries for surrogate and matrix spike analytes (all were above 18%). The samples and the sample matrix spikes produced acceptable and comparable recoveries. The reextractions of the samples and associated QC show acceptable recoveries, but were performed outside the usable holding time. Evaluation of the data show the initial blank and spiked blank failures are extract specific, and do not imply lack of integrity of the associated samples. The acceptable results of the sample matrix spikes and all sample surrogates in the initial extraction allow for batch acceptance, and no qualification is recommended. Initial results (not "-RE") should be used for those samples.

Sample B-16-S exhibited two elevated internal standard recoveries. Sample reported results are unaffected, as the only detection (a phthalate) is already qualified estimated due to value below CRDL.

Matrix spikes of B-16-S, MW-8S, and MW-13-GW show acceptable accuracy and precision, with the exception of slightly elevated recoveries or duplicate correlations for analytes not detected in the samples. Reported results are unaffected.

pg. 4/5

Due to low recoveries (20% to 36%, below 41%) in the associated spiked blank control, the results for n-nitroso-di-n-propylamine for all samples collected in May and September are qualified estimated ("UJ"), with a low bias.

The detections of di-n-butylphthalate in the samples are considered contamination and edited to nondetection ("U") at the CRDL.

Tentatively Identified Compounds (TICs) flagged as "A" or "B" by the laboratory are considered extraction artifacts or contamination (indicated by presence in associated blanks), and results should be rejected as sample components.

Initial and continuing calibration standards showed acceptable response factors, linearity, and daily variances that do not significantly impact reported results. Instrument tune criteria were met.

TCL Pesticide/PCB Analyses by 95-3

Due to the matrix effect on baseline response and potential masking of analyte response, the pesticide/PCB reporting limits in sample B-16-S are to be qualified estimated ("UJ").

Due to the matrix effect on baseline response and potential masking of analyte response, the pesticide/PCB reporting limits for the following analytes in sample MW-10-S are to be qualified estimated ("UJ"): endosulfan I, dieldrin, endrin,m 4,4'-DDD, and 4,4'-DDT.

Pesticide matrix spikes of MW-8S and MW-13, and Aroclor 1260 matrix spikes of B-16-S show acceptable accuracy and precision.

Holding times were met, and blanks show no contamination. Calibration standards showed acceptable linearity and consistency, and instrument performance (resolution and breakdown) and cleanup recoveries were good.

Although the laboratory deliverables meet requirements, they do not allow for independent verification of nondetected results in samples showing matrix responses (integration output is edited to reflect only detections reported by analyst). If full validation is required, some additional raw data items would be needed.

One of the samples was doubled spiked with surrogates, creating a less strict monitoring compound evaluation. Review of the sample data indicates no significant effect on the sample reported results.

TAL Metals/CN by CLP-M

Metals/cyanide matrix spikes for MW-8-S low recovery for antimony (40%), and elevated recovery for manganese (156%). Results for those two elements in the samples are therefore qualified estimated ("J" and "UJ"). Matrix spike metal and cyanide recoveries of MW-13, and ICP post-digest recoveries of B-13-S and B-16-S were acceptable. Duplicate correlations were acceptable for all.

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The ICP serial dilutions of MW-8-S, B-13-S, and MW-13 showed all acceptable correlations.

GFAA post-digest spikes for the following analyte results were low (below 85%, but above 64%), and results are to be qualified estimated ("J" or "UJ"): selenium in MW-7-S, MW-8-S, MW-12-S, MW-13, MW-2, MW-8, and DU-GW thallium in MW-8S, MW-13S, and MW-S-DU

Holding times and instrument performance were acceptable.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Data Validation Services

120 Cobble Creek Road P. O. Box 208 North Creek, NY 12853 Phone (518) 251-4429 Fax (518) 251-4428

LETTER OF TRANSMITTAL

TO:

Peter Smith

COMPANY:

Sear-Brown Group

FROM:

Judy Harry

DATE:

11-08-02

ENCLOSED:

DUSR for Buell Rd. site

Associated invoice

COMMENTS:

As faxed

Data Validation Services

1DATA VALIDATION SER

120 Cobble Creek Road P. O. Box 208 North Creek, NY 12853 Phone (518) 251-4429 Facsimile (518) 251-4428

Facsimile Transmission

TO:	Peter Smith
COMPANY:	Sear-Brown Group
FAX NUMBER:	585 475 5951
FROM:	Judy Harry
DATE:	11-08-02
No. of pages (including cover):	Includes all data. Thereived to date.
COMMENTS:	Narrative section of the Buell Automatics DUSR
I will ship t	he original for Monday delivery.
Let me kno	w if you want me to apply qualifiers/edits to hardcopy of results tables.
Original to follow	NoXYes

JIENT REP:	Karen Bunker	CUSTODY	SEAL: PRESENT/ABSENT:		SHIPPING	No.:		
ROJECT:	BUELL AUTOMATICS		F CUSTODY: PRESENT/ABSENT:			•		
CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE	DATE	pН	₽k	REMARKS
				SAMPLED	RECEIVED			SAMPLE CONDIT
553417	BU-MW7-5	SOIL	95-1, 95-2, mets, TCN	5/21/02	5/21/02		L-	
553421	BU-MWB-S	SOIL	QC,95-1, 95-2,95-3 mets,TCN	5/21/02	5/21/02		w	
553430	BU-MW12-S	SOIL	95-1, 95-2, mets, TCN	5/22/02	5/22/02			
553431	BU-MW13-S	SOIL	95-1, 95-2,95-3 mets, TCN	5/21/02	5/21/02		-	
553432	BU-XX-S-DU	SOIL	95-1,95-2, mets, tcn	5/22/02	5/22/02			
553433	BU-XX-S-RB	WATER	95-1, 95-2,95-3 mets TCN	5/22/02	5/22/02		<u></u>	
553434	COOLER BLANK	WATER	95-1	5/22/02				
						 		
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3DG #:57462			OMPLETE: YES		DATE REVI			
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LIENT:	Sear-Brown Group	DATE: 8/			PROTOCOL:			
	Karen Bunker		SEAL: PRESENT/ABSENT:		SKIPPING	•		
'ROJECT:	BUELL AUTOMATICS		F CUSTODY: PRESENT/ABSENT:		SUMMARY P	KG: Y X	N	
CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	PH SOLIDS	SOLIDS	REMARKS SAMPLE CONDIT
574625	BU-MW2D-S	SOIL	95-1, 95-2	8/5/02	B/6/02			
574626	BU-MW10-S	SOIL	95-1, 95-2, TAL INOR 95-3	8/5/02	8/6/02			
574627	BU-MW9-S	SOIL	95-1, 95-2	8/6/02	8/6/02			
574628	COOLER BLANK	WATER	95-1					
575470	BU-MW11-S	SOIL	95-1, 95-2	8/7/02	8/9/02		- 	
575471	BU-MW6-S	SOIL	95-1, 95-2	8/8/02	8/9/02		·	
575472	BU-B11-S	SOIL	95-1, 95-2	8/8/02	8/9/02			
575474	BU-B11-GW	WATER	95-1 MS/MSD	8/8/02	B/9/02			
575475	BU-B12-S	SOIL	95-1,95-2	8/8/02	8/9/02			
575477	BU-B13-S	SOIL	95-1, 95-2, TAL INOR 95-3	8/8/02	8/9/02			
575478	BU-B13-GW	WATER	95-1	8/8/02	8/9/02			<u> </u>
575481	BU-B14-S	SOIL	95-1, 95-2, TAL INOR 95-3PCB	8/8/02	8/9/02			
575482	BU-B14-GW	WATER	95-1	8/8/02	8/9/02	·		
575483	BU-B18-S	SOIL	95-1, 95-2, TAL INOR 95-3PCB	8/8/02	8/9/02			
575484	BU-818-GW	WATER	95-1	8/8/02	8/9/02			
575485	TRIP BLANK	WATER	95-1	8/8/02	8/9/02	\		
575806)/	BU-B15-S	SOIL	95-1,95-2,95-3PCB'S	8/9/02	8/9/02	·		
575809	BU-B15-GW	WATER	95-1	8/9/02	8/9/02			
575817	BU-B16-S QC	SOIL	95-1,95-2,95-3PCB'S QC	8/9/02	8/9/02			
575820	BU-B16-GW	WATER	95-1	8/9/02	8/9/02			
575823	BU-B17-S	SOIL	95-1,95-2,95-3PCB'S,TAL INOR	B/9/02	8/9/02			
575824	8U-817-GW	WATER	95~1	8/9/02	8/9/02			
575825	TRIP BLANK	WATER	95-1	8/9/02	8/9/02			
575826	BU-B16-W-RB	WATER	95-1	8/9/02	8/9/02			
576163	BU-B8-S	SOIL	95-1, 95-2	8/12/02	B/12/02			
576164	BU-B-9-S .	SOIL	95-1, 95-200	8/12/02	8/12/02			1
576165	BU-10-S	SOIL	95-1,95-2,95-3PCE TAL INORG	B/12/02	8/12/02			
			AS PER CLIENT:					
			VOC'S 8-11- B18 ELEVATED					
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9/16/02

1DATA VALIDATION SER

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Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
Facsimile (518) 251-4428



LETTER OF TRANSMITTAL

TO:	Peter Smith
COMPANY:	Sear Brown Group
FROM:	Judy Harry
DATE:	10-10-03
ENCLOSED:	DUSR for the Buell Automatics
	Associated red-ink edited report forms
	Associated invoice
COMMENTS:	This covers all packages received to date for this project
Ship via: US Express	UPS US Priority Fed ExOther

Data Validation Services

120 Cobble Creek Road P. O. Box 208 North Creek, N. Y. 12853 Phone 518-251-4429 Facsimile 518-251-4428

October 9, 2003

Peter Smith Sear Brown Group 85 Metro Park Rochester, NY 14623

Data Usability Summary Report for Buell Automatics RE: CAS SDG Nos. R231842, R2316048, and R2316744

Dear Mr. Smith:

Review has been completed for the data packages generated by Columbia Analytical Laboratories that pertain to samples collected 2/25/03, 3/13/03, 5/3/03, and 5/5/03 at the Buell Automatics site. Eighteen soil and seven aqueous samples were processed for TCL volatiles by NYSDEC ASP CLP method 95-1. Two of those soils and two other soils were analyzed for TPH by NYS310-13. Trip and cooler blanks were also processed.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples * Instrumental Tunes

- * Calibration Standards
- Instrument IDLs

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, sample analyte values/reporting limits are usable as reported, or usable with qualification as estimated ("J" qualifier) due to typical processing or matrix effects.

Copies of the laboratory case narratives and laboratory sample ID summaries are attached to this text, and should be reviewed in conjunction with this report. Included with this submission are red-ink edited sample report forms, showing edits and qualifications recommended within this report.

The following text discusses quality issues of concern. Sample IDs noted below are prefixed by "BU-".

General

The custody pertaining to samples collected in May do not show the time of collection. These entries should have been present.

TCL Volatiles Analyses by ASP 95-1

Surrogate and internal standard recoveries were acceptable. Holding times were met, with the exception of the analysis for B27-W. The pH of this sample was elevated above 2, and the analysis was performed eight days from sample receipt, ten from collection. Results for seven aromatic analytes in that sample are to be qualified estimated ("UJ" and "J"), with a possible low bias.

Sample matrix spikes were performed on soil samples MW-14S and B-31-S, and aqueous samples MW-14-GW and B-27-W. Accuracy and precision were acceptable, with the exception of an elevated duplicate correlation for an analyte not detected in the parent sample MW-14-GW, and one low recovery for chlorobenzene (70% {and 76%}, below 75%) not detected in B-27-W.

Blind field duplicates were performed on aqueous samples MW-15-GW and B-19-W, and on soil samples BU-MW-14-S and B-32-S. Correlations were acceptable for all.

Low level detections of xylenes in the February cooler blank do not affect associated sample results, which show no detection of those analytes.

Results for analytes initially reported with the "E" flag are to be derived from the dilution analyses of the samples. They include the following:

Sample	Analyte	Result, ug/kg
B-24-S	cis-1,2-dichloroethene	360
B-23-S	cis-1,2-dichloroethene	84,000
B-23-S	1,1,1-trichloroethane	67,000
B-23-S	trichloroethene	820,000

Surrogate and internal standard recoveries, and instrument tunes were acceptable.

Calibrations standards showed acceptable responses, with the exception of that for bromoform (34%D and 31%D) in 5/9/03 and 5/14/03 calibrations. Results for that analyte in samples B-22-S, B-28-S, B-30-S, B-21-S, and B-25-S are qualified as estimated ("UJ"), with a possible low bias.

TPH Analyses

Sample TPH patterns do not match standards for Fuel Oil #2, kerosene, gasoline, Nocor 60, motor oil, or lube. The results are quantitated as hydrocarbons, and quantitative values should be considered as estimated ("J").

Matrix spikes of Fuel Oil #2 in DUP-S show good recoveries and correlations. Holding times and instrumental processing was acceptable. Blanks show no contamination.

Blind field duplicate correlation for BU-B32-S shows variance of 50%RPD. The values are already qualified estimated due to poor pattern match.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

SDG #: 622294			OMPLETE:yes		DATE REV			
SUBMISSION		DISKETTE REQUESTED: Y_X_ N			DATE DUE: 2 WEEK DATA, STND REPORT			
	Sear-Brown Group	DATE: 2/			PROTOCO			
CLIENT REP:			Y SEAL: PRESENT/ABSENT:		SHIPPING			
PROJECT:	BUELL AUTOMATICS #16059	CHAIN O	F CUSTODY: PRESENT/ABSENT	Γ:	SUMMARY	PKG: Y_	<u>X</u> N	
CAS JOB#	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE	DATE	На	%	REMARKS
1				SAMPLED	RECEIVED	(SOLIDS)	SOLIDS	AMPLE CONDITION
622294	BU-MW15-S	SOIL	95-1, DWPS	2/26/03	2/26/03			
622295	BU-MW14-S	SOIL	95-1, DWPS MS/MSD	2/26/03	2/26/03			
622296	BU-S-DUP	SOIL	95-1, DWPS	2/26/03	2/26/03	L	· · · · · · · · · · · · · · · · · · ·	
622297	COOLER BLANK	WATER	95-1		2/26/03			
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CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: 62577			OMPLETE:yes		DATE REV	ISED:		
SUBMISSION			E REQUESTED: Y_X_N		DATE DUE	: 2 WEEK	DATA, ST	IND PACK
CLIENT:	Sear-Brown Group	DATE: 03			PROTOCO		·	
	Karen Bunker	CUSTOD	Y SEAL: PRESENT/ABSENT:		SHIPPING	No.:		į
	BUELL AUTOMATICS #16059	CHAIN O	F CUSTODY: PRESENT/ABSENT	Γ:	SUMMARY		_X_ N	į.
CAS JOB#	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE	DATE	На	%	REMARKS
								AMPLE CONDITION
625776	BU-MW15-GW	WATER	95-1	3/13/03	3/13/03	(3033)	002.00	TWIN CE SONDING!
625777	BU-MW14-GW	WATER	95-1 MS/MSD	3/13/03	3/13/03			
625778	BU-MW11-GW	WATER	95-1	3/13/03	3/13/03			
625779	BU-DUP-GW	WATER	95-1	3/13/03	3/13/03			
	TRIP BLANK	WATER	95-1	3/13/03	3/13/03			
625781	COOLER BLANK	WATER	95-1	3/13/03	3/13/03			
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3/13/03

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: 63868	0	ВАТСН С	OMPLETE:yes		DATE REV	ISED:		
SUBMISSION	R2316744	DISKETT	E REQUESTED: Y_X_ N		DATE DUE	: 2 WEEK	DATA, 4	WK REPORT
CLIENT:	Sear-Brown Group	DATE:5/6	5/03		PROTOCO	L: ASPB		
CLIENT REP:	Karen Bunker	CUSTOD	Y SEAL: PRESENT/ABSENT:		SHIPPING	No.:		
PROJECT:	BUELL #16059	CHAIN O	F CUSTODY: PRESENT/ABSENT	<u>:</u>	SUMMARY	PKG: Y_	<u>X</u> N	
CAS JOB#	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE	DATE	рН	%	REMARKS
				SAMPLE	RECEIVED	(SOLIDS)	SOLIDS	AMPLE CONDITIO
638680	BU-B21-S	SOIL	95-1, DWPS	5/3/03	5/5/03			
638681	BU-B24-S	SOIL	95-1, DWPS	5/3/03	5/5/03			
638682	BU-B25-S	SOIL	95-1, DWPS	5/3/03	5/5/03			
638683	BU-B26-S	SOIL	95-1, DWPS	5/3/03	5/5/03	 		
638685	BU-B27-S	SOIL	TPH 310.13 DWPS	5/3/03	5/5/03			
638686	BU-B28-S	SOIL	95-1, DWPS	5/3/03	5/5/03	-		
638687	BU-B29-S	SOIL	95-1, DWPS	5/3/03	5/5/03			
638688	BU-B30-S	SOIL	95-1, DWPS	5/3/03	5/5/03			
638689	BU-B27-W	WATER	95-1 MS/MSD	5/3/03	5/5/03			
638690	BU-DUP-W	WATER	95-1	5/3/03	5/5/03			
638691	BU-B19-W	WATER	95-1	5/5/03	5/5/03			
638692	TRIP BLANK	WATER	95-1	5/5/03	5/5/03			
638693	BU-B19-S	SOIL	95-1, DWPS	5/5/03	5/5/03			
638694	BU-B20-S	SOIL	TPH-310.13, DWPS	5/5/03	5/5/03			
638695	BU-B31-S	SOIL	95-1. DWPS MS/MSD	5/5/03	5/5/03			
638696	BU-B32-S	SOIL	95-1, 310.13,DWPS	5/5/03	5/5/03			
638697	BU-DUP-S	SOIL	95-1, 310.13, DWPS	5/5/03	5/5/03			
638698	BU-B33-S	SOIL	95-1, DWPS	5/5/03	5/5/03			
638699	BU-B34-S	SOIL	95-1, DWPS	5/5/03	5/5/03			
	BU-B22-S	SOIL	95-1, DWPS	5/5/03	5/5/03			
	BU-B23-S	SOIL	95-1, DWPS	5/5/03	5/5/03			
638702	COOLER BLANK	WATER	95-1	5/3/03	5/5/03			
								
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			Exercise abudouses	\mathcal{V}				
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COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2315842

Client ID#
BU-MW15-S
BU-MW14-S
BU-S-DUP
COOLER BLANK

Three (3) soil samples were collected by Sear Brown on 2/26/03 and received at CAS on the same day as sampled. The samples were received unbroken at a cooler temperature of 6°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were intact on the cooler upon receipt. All soil results are reported on a dry weight basis. An ASP deliverable package B is provided.

VOLATILE ORGANICS

Three (3) soil samples and a Cooler Blank were analyzed by NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

The samples were run within the ASP holding time.

Location BU-MW14-S (CAS Order # 622295) was analyzed for site specific QC. Matrix Spike and Matrix Spike Duplicate recoveries and Relative Percent Difference (RPD) values are all within acceptance limits. Reference Spike recoveries are acceptable.

Hits below the CRDL are flagged as "J".

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analyte detected is quantitated based on the closest internal standard and reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Cooler Blank for this project was free of contamination from Target Compounds and TIC's down to the CRDL. A hit for m+p Xylene was detected below the CRDL and has been flagged as "J".

No other problems were encountered during the analysis of these samples.

COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2316048

SDG#: 625776

Water samples were collected by Sear Brown on 3/13/03 and received at CAS on the same day as collected. All samples were received unbroken, in good condition at a cooler temperature of 5°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were intact on all coolers upon receipt.

VOLATILE ORGANICS

Four (4) waters, one (1) Trip Blank and a Cooler Blank were analyzed using NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed. The Cooler Blank is placed in storage with the samples and analyzed along with them to verify that no contamination problems exist. This is a requirement for ASP protocol.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within holding time for ASP protocol.

Site Specific QC was performed on location BU-MW-14-GW (CAS Order # 625777). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds except for Benzene. The RPD calculation has been flagged "*". All Blank Spike recoveries were within acceptance limits.

The water vials were tested for preservation after analysis to preserve the integrity of the samples. All samples were found preserved to a pH of <2.

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Trip Blank and Cooler Blank for this project was free of contamination from Target Compounds and TIC's. All Method Blanks were free from Target Compound contamination.

No other problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry // Laboratory Manager <u>4/4/03</u> Date

COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2316744 SDG#: 638680

Water samples were collected by Sear Brown on 5/3-5/03 and received at CAS on 5/5/03. All samples were received unbroken, in good condition at a cooler temperature of 6°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were intact on all coolers upon receipt. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Fifteen (15) soils, three () waters, one (1) Trip Blank and a Cooler Blank were analyzed using NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed. The Cooler Blank is placed in storage with the samples and analyzed along with them to verify that no contamination problems exist. This is a requirement for ASP protocol.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within holding time for ASP protocol.

Site Specific QC was performed on location BU-B27-W (CAS Order # 638689) for the water matrix and BU-B31-S (CAS Order #638695) for the soil matrix. All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds except for the Chlorobenzene MS on the water sample. The spike recovery has been flagged "*". All Blank Spike recoveries were within acceptance limits.

Locations B24-S and B23-S (CAS Order #s 638681 and 638701 respectively) had hits above the calibration range of the instrument. The compounds have been flagged as "E". The samples were repeated at dilutions appropriate for the concentrations. Both sets of data are included in the package. The diluted samples are denoted as B-24SDL and B23-SDL. The hits in the diluted samples are flagged as "D".

The water vials were tested for preservation after analysis to preserve the integrity of the samples. Water samples were found preserved to a pH of <2 except for BU-B27-W (CAS Order # 638689). This sample was run on 5/13/03, the eighth day from sample receipt, outside the 7 day holding time for unpreserved samples.

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Trip Blank and Cooler Blank for this project were free of contamination from Target Compounds and TIC's. All Method Blanks were free from Target Compound contamination.

Page 2
COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2316744

SDG#: 638680

No other problems were encountered during the analysis of these samples.

Extractable Organics

Four (4) soil samples were analyzed for Total Petroleum Hydrocarbons by NYS method 310-13. The samples were compared to the CAS standards of Fuel Oil #2/Diesel Fuel, Gasoline, Kerosene, and Lube oil as well as 3 additional standards which were provided by the client. All samples, however, were quantitated as "N-Dodecane", a carbon chain, since none of the chromatograms of the samples matched the standards.

Site QC was performed on location BU-DUP-S (CAS Order # 638697). The MS and MSD were both acceptable. The RPD was within acceptance limits. Both the Blank Spike and the Blank Spike Duplicate recoveries were within limits.

The Laboratory Method Blank was free from contamination.

No other problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry

Laboratory Manager

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW15-S

cas\roch	<u> </u>		Contract: sear-brown	
10145		Case No.: <u>r23-15842</u>	SAS No.:	SDG No.: 622294
ater)	SOIL		Lab Sample ID:	622294 1.0
l:	5.0	(g/ml) G	Lab File ID:	A6342.D
ed)	LOW		Date Received:	02/26/03
ot dec.	4.3		Date Analyzed:	03/03/03
db-624	ID:	0.32 (mm)	Dilution Factor:	1.0
olume:		(uL)	Soil Aliquot Vol	ume: (uL
	10145 ater) : ed) ot dec. db-624	ater) SOIL : 5.0 ed) LOW ot dec. 4.3 db-624 ID:	10145 Case No.: r23-15842 ater) SOIL : 5.0 (g/ml) G ed) LOW ot dec. 4.3 db-624 ID: 0.32 (mm)	10145 Case No.: r23-15842 SAS No.: Sample ID: Sample

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
74-87-3	Chloromethane			10	U
75-01-4	Vinyl chloride			10	U _
74-83-9	Bromomethane			10	U_
75-00-3	Chloroethane		!	10	U
75-35-4	1,1-Dichloroether	ne		10	U
67-64-1	Acetone			10	U
75-15-0	Carbon disulfide			10	U
75-09-2	Methylene chloric	le		10	U
156-60-5	trans-1,2-Dichloro	oethen e		10	U
75-34-3	1,1-Dichloroethar	ne		10	U
78-9 3-3	2-Butanone			10	U
156-59-2	cis-1,2-Dichloroet	then e		10	U
67-66-3	Chloroform			10	U
107-06-2	1,2-Dichloroethar	ne		10	U
71-55-6	1,1,1-Trichloroeth	nan e		10	U
56-23-5	Carbon tetrachlor	id e		10	U
71-43-2	Benzen e		<u> </u>	10	U_
79-01-6	Trichloroethene			10	U
78-87-5	1,2-Dichloropropa	en e		10	U
75-27-4	Bromodichlorome	ethan e		10	U
10061-01-5	cis-1,3-Dichlorop	ropen e	ļ	10	U
10061-02-6	trans-1,3-Dichloro	opropen e		10	U
79-00-5	1,1,2-Trichloroeth	nane	1	10	U
124-48-1	Dibromochlorome	ethan e		10	U
75-25-2	Bromofor m			10	U
108-10-1	4-Methyl-2-penta	none		10	U
108-88-3	Toluen e		i	10	U
127-18-4	Tetrachloroethen	е		10	U
591-78-6	2-Hexanone			10	U
108-90-7	Chlorobenzene			10	U
100-41-4	Ethylbenzen e			10	U_
108-38-3/106-42-3	(m+p)Xylene			10	U
95-47-6	o-Xylen e			10	U
100-42-5	Styren e			10	U
79-34-5	1,1,2,2-Tetrachlo	roethan e		10	U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	cas\roch	<u> </u>		c	ontract:	sea	r-brown		10100 12-2	<u>'</u>
Lab Code:	10145		Case No.: r23	3-15842	SAS No	o.:	S	DG No.	: 62229	4
Matrix: (soil/w	vater)	SOIL			La	b Sai	mple ID:	62229	4 1.0	_
Sample wt/vo	ol:	5.0	(g/ml) <u>G</u>	— -—	La	b File	∍ ID:	A6342	.D	_
Level: (low/m	ned)	LOW			Da	ete Re	eceived:	02/26/	03	
% Moisture: r	not dec.	4.3			Da	ete Ar	nalyzed:	03/03/	03	_
GC Column:	<u>db-624</u>	1 ID:	0.32 (mm)		Dil	lution	Factor:	1.0		_
Soil Extract V	olume:	1	(uL)		So	oil Alio	quot Volu	ıme: <u>1</u>		_ (uL)
				CONC	ENTRA	TION	UNITS:			
Number TICs	found:	0		(ug/L d	or ug/Kg))	UG/KG			
CAS NO.		COMF	POUND			R1	Г Е:	ST. CON	۷C.	Q

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-DUP

Lab Name:	cas\roch			Contract: sear-brown	
Lab Code:	10145		Case No.: <u>r23-15842</u>	SAS No.:	SDG No.: 622294
Matrix: (soil/v	vater)	SOIL		Lab Sample ID	: <u>622296 1.0</u>
Sample wt/vo	ol:	5.0	(g/ml) <u>G</u>	Lab File ID:	A6344.D
Level: (low/n	ne d)	LOW		Date Received	: 02/26/03
% Moisture: ı	not dec.	4.5		Date Analyzed	: 03/03/03
GC Column:	<u>db-62</u>	4_ ID:	<u>0.32</u> (mm)	Dilution Factor:	1.0
Soil Extract \	/olume:		(uL)	Soil Aliquot Vol	lume: (uL

CONCENTRATION UNITS:

			CONCENTRATION UNITS.		
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
74-87-3	Chloromethane		:	10	U
75-01-4	Vinyl chloride			10	U
74-83-9	Bromomethane			10	U
75-00-3	Chloroethane			10	U
75-35-4	1,1-Dichloroethe	ne		10	U
67-64 -1	Acetone			4	J
75-15-0	Carbon disulfide		:	10	U
75-09-2	Methylene chlori	d e	:	10	U
156-60-5	trans-1,2-Dichlor	oethen e		10	U
75-34-3	1,1-Dichloroetha	ne		10	U
78-93-3	2-Butanone		<u>i </u>	10	U
156-59-2	cis-1,2-Dichloroe	ethen e		10	U
67-66-3	Chloroform			10	U
107-06-2	1,2-Dichloroetha	ine	1	10	U
71-55-6	1,1,1-Trichloroet	han e		10	U
56-23-5	Carbon tetrachlo	orid e		10	U
71-43-2	Benzen e			10	U
79-01-6	Trichloroethene		1	10	U
78-87-5	1,2-Dichloroprop	an e	<u> </u> _	_10	U
75-27-4	Bromodichlorom	ethan e	-	10	U .
10061-01-5	cis-1,3-Dichlorop	oropen e		10	U
10061-02-6	trans-1,3-Dichlo	ropropen e	i	10	U
79-00-5	1,1,2-Trichloroet	tha ne		10	U
124-48-1	Dibromochlorom	nethan e		10	U
75-25 -2	Bromoform		i	10	U
108-10-1	4-Methyl-2-penta	enon e		10	U
108-88-3	Toluen e			10	U
127-18-4	Tetrachloroethei	ne		10	U
591-78-6	2-Hexanone		į.	10	U
108-90-7	Chlorobenzen e			10	U
100-41-4	Ethylbenzen e	·		10	U
108-38-3/106-42-3			1	10	U
95-47-6	o-Xylen e			10	U
100-42-5	Styren e			10	U
79-34-5	1,1,2,2-Tetrachle	oroethan e	:	10	U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	cas\roct	١		Contra	ct:	sear-brown		5-DUP	
Lab Code:	10145		Case No.: r23-	15842 SAS	No.	: S	DG N	o.: 62229	4
Matrix: (soil/w	vater)	SOIL			Lab	Sample ID:	6222	96 1.0	_
Sample wt/vo	ol:	5.0	(g/ml) <u>G</u>		Lab	File ID:	<u>A634</u>	14.D	
Level: (low/m	n ed)	LOW			Date	e Received:	02/2	6/03	_
% Moisture: r	not dec.	4.5			Date	e Analyzed:	03/0	3/03	_
GC Column:	db-624	1 ID:	0.32 (mm)		Dilu	ition Factor:	1.0		_
Soil Extract V	/olum e: _	1	(uL)		Soil	l Aliquot Volu	ıme:	1	_ (uL)
				CONCENT	RAT	ION UNITS:			
Number TICs	found:	0		(ug/L or ug/l	⊀g)	UG/KG			
CAS NO.		COMF	POUND			RT ES	ST. C	ONC.	Q

EPA SAMPLE NO.

COOLER BLANK

Lab Name: cas\roc	<u> </u>	Contract: sear-brown	COOLER BLANK
Lab Code: 10145	Case No.: r23-15842	- SAS No.: S	DG No.: 622294
Matrix: (soil/water)	SOIL	Lab Sample ID:	622297 1.0
Sample wt/vol:	5.0 (g/ml) G	Lab File ID:	A6348.D
Level: (low/med)	LOW	Date Received:	02/26/03
% Moisture: not dec.	0	Date Analyzed:	03/03/03
GC Column: <u>db-62</u>	24 ID: <u>0.32</u> (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volu	me: (uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride	!	10	U
75-00-3	Chloroethane		10	U
74-83-9	Bromomethane		10	U
67-64-1	Acetone		10	U
75-09-2	Methylene chloride		10	U
75-15-0	Carbon disulfide	1	10	U
78-93-3	2-Butanone	İ	10	U
156-5 9-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzen e	I	10	U
79-01-6	Trichloroethen e		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane	!	10	U
124-48-1	Dibromochloromethane	i	10	Ü
75-2 5-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluen e		10	U
591-78-6	2-Hexanone	!	10	U
127-18-4	Tetrachloroethene		10	U
108-9 0-7	Chlorobenzen e		10	U
100-41-4	Ethylbenzen e	1	10	U
108-38-3/106-42-3	(m+p)Xylen e		2	J
100-42-5	Styren e		10	U
79-34-5	1,1,2,2-Tetrachloroethane		_10	U.
95-47-6	o-Xylen e		10	Ü
156-6 0-5	trans-1,2-Dichloroethene		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
56-23-5	Carbon tetrachloride	1	10	U
78-87-5	1,2-Dichloropropane		10	Ū

EPA SAMPLE NO.

COOLER BLANK Lab Name: cas\roch Contract: sear-brown Case No.: r23-15842 SAS No.: SDG No.: 622294 Lab Code: 10145 SOIL Lab Sample ID: 622297 1.0 Matrix: (soil/water) 5.0 (g/ml) G Lab File ID: Sample wt/vol: A6348.D Level: (low/med) LOW Date Received: 02/26/03 Date Analyzed: 03/03/03 % Moisture: not dec. 0 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/KG Number TICs found: RT EST. CONC. COMPOUND Q CAS NO.

EPA SAMPLE NO.

Lab Name:	cas\rocl	ገ		Contract: searb	MW-15	
Lab Code:	10145	Ca	se No.: <u>r23-1604&</u>	SAS No.:	DG No.: 625776	
Matrix: (soil/	water)	WATER	_	Lab Sample ID:	625776 1.0	
Sample wt/v	ol:	5.0	(g/ml) ML	Lab File ID:	A6624.D	
Level: (low/	med)	LOW	_	Date Received:	03/13/03	
% Moisture:	not dec.			Date Analyzed:	03/19/03	
GC Column:	db-624	4 ID: 0.3	32 (mm)	Dilution Factor:	1.0	
Soil Extract \	Volume		(uL)	Soil Aliquot Vol	ume: _	(uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	Ū
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	Ū
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	υ
78-9 3-3	2-Butanone	10	Ū
156-59-2	cis-1,2-Dichloroethene	6	J
67-66-3	Chloroform	10	Ū
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
71-43-2	Benzene	10	U
79-01 - 6	Trichloroethene	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	Ū
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	Ū.
100-41-4	Ethylbenzen e	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ü
95-47 - 6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-8 7- 5	1,2-Dichloropropane	10	U

Lab Nam e :	cas/roc	<u>h</u>		_ Contract:	searb		M	W-15]
Lab Code:	10145	Ca	se No.: r23-160	15 SAS NO	o.:	_ SD	G No.: 6	325776	
Matrix: (soil/	water)	WATER	_	La	b Sampl	e ID: 6	625776 1.	.0	
Sample wt/v	ol:	5.0	(g/m i) ML	La	b File ID	: <u>/</u>	46624.D		
Level: (low/r	me d)	LOW	_	Da	te Recei	ved: <u>C</u>)3/13/03		
% Moisture:	not dec.			Da	ite Analy:	zed: <u>C</u>)3/19/03		
GC Column:	db-62	4 ID: 0.	32_ (mm)	Dil	ution Fac	ctor: 1	.0		
Soil Extract Volume (uL)			So	il Aliquot	Volun	ne:		(uL)	
				NCENTRA					
Number TICs	s found:	0	(ug	ı/L or ug/Kg)	UG	/L			
CAS NO.		COMPOL	JND		RT	EST	. CONC.	C	2

EPA SAMPLE NO.

Lab Name:	cas\roci	1		Contract: searb	MW-14	
Lab Code: 1014		Cas	se No.: <u>r23-1604</u>	SAS No.: S	DG No.: <u>625776</u>	
Matrix: (soil/	water)	WATER	-	Lab Sample ID:	625777 1.0	
Sample wt/v	ol:	5.0	(g/ml) ML	Lab File ID:	A6625.D	
Level: (low/r	ned)	LOW	_	Date Received:	03/13/03	
% Moisture:	not dec.			Date Analyzed:	03/19/03	
GC Column:	db-624	1D: <u>0.3</u>	32 (mm)	Dilution Factor:	1.0	
Soil Extract \	Volume		_ (uL)	Soil Aliquot Volu	ıme:	(uL

CAS NO.	COMPOUND (ug/L or ug.	/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	υ
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	100	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	3	J
71-43-2	Benzene	10	U
79-0 1-6	Trichloroethen e	3	J
75-27-4	Bromodichloromethane	10	υ
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U _
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-2 5-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	υ
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	12	
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

Lab Name:	cas\roch	า		Contract:	searb		MW-	14
Lab Code:	10145	Ca	se No.: <u>r</u> 23-160	– <u>48</u> SAS No	o.:	SD	G No.: <u>62</u> 5	57 76
Matrix: (soil/	water)	WATER	_	La	b Sample	ID: <u>6</u>	25777 1.0	
Sample wt/vo	:10	5.0	(g/ml) <u>ML</u>	La	b File ID:	<u> </u>	66 25.D	
Level: (low/r	ned)	LOW	_	Da	ate Receiv	ed: <u>0</u>	3/13/03	
% Moisture:	not dec.			Da	ate Analyze	e d : <u>0</u>	3/19/03	
GC Column:	db-624	4 ID: 0.:	32 (mm)	Dil	lution Fact	or: <u>1</u>	.0	·
Soil Extract \	/olume		_ (uL)	So	il Aliquot \	√olum	ne:	(u L)
				ONCENTRAT				
Number TICs	found:	0	<u>-</u>					
CAS NO.		COMPOL	JND		RT	EST	. CONC.	Q

EPA SAMPLE NO.

					MW-11	ĺ
Lab Name:	cas/roch	<u> </u>		Contract: searb	_	_]
Lab Code:	10145	Cas	se No.: r23-16046	SAS No.:S	DG No.: 625776	_
Matrix: (soil/	water)	WATER	<u>.</u>	Lab Sample ID:	625778 2.0	
Sample w t/v	ol:	5.0	(g/ml) ML	Lab File ID:	A6628.D	
_evel: (low/i	m ed)	LOW		Date Received:	03/13/03	
% Moisture:	not dec.			Date Analyzed:	03/19/03	
GC Column:	db-624	ID: <u>0.3</u>	2_ (mm)	Dilution Factor:	1.0	
Soil Extract \	Volume _		_ (uL)	Soil Aliquot Vol	ume: (uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Ø
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	15	
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	160	
67-66-3	Chloroform	_ 10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	7	J
71-43-2	Benzene	10	U
79-01 - 6	Trichloroethene	33	
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	Ų
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluen e	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	Ū
100-42-5	Styren e	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	29	
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

Lab Name:	cas/roct	1		_ Contract:	searb		MW-1	11
Lab Code:	10145	Cas	e No.: <u>r23-160</u> 4	SAS NO	o.:	_ SD	G No.: <u>625</u>	776
Matrix: (soil/	water)	WATER		La	b Sample	ID: 6	25778 2.0	
Sample wt/ve	oł:	5.0	(g/ml) ML	_ La	b File ID:	A	\6628.D	
Level: (low/r	ned)	LOW		Da	ite Receiv	/ed: [3/13/03	_
% Moisture:	not dec.			Da	ite Analyz	ed: <u>C</u>	3/19/03	
GC Column:	db-624	ID: 0.3	2 (mm)	Dil	ution Fac	tor: <u>1</u>	.0	
Soil Extract Volume			(u L)	So	il Aliquot	Volun	ne:	(uL)
			CC	NCENTRA	TION UNI	TS:		
Number TICs	found:	0	(ug	/L or ug/Kg)	UG	'L 		
CAS NO.		COMPOU	ND	;	RT	EST	. CONC.	Q

EPA SAMPLE NO)
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Lab Nam e :	cas\rock	1		Contract: searb		
Lab Cod e :	10145	Cas	se No.: r23-16046	SAS No.: S	DG No.: 625776	_
Matrix: (soil/\	water)	WATER		Lab Sample ID:	625779 1.0	
Sample wt/v	ol:	5.0	(g/ml) ML	Lab File ID:	A6629.D	
Level: (low/r	ne d)	LOW		Date Received:	03/13/03	
% Moisture:	not dec.		_	Date Analyzed:	03/19/03	
GC Colum n :	db-624	1 ID: <u>0.3</u>	3 <u>2</u> (mm)	Dilution Factor:	1.0	
Soil Extract \	Volume _		_ (uL)	Soil Aliquot Volu	ume: (ı	ıL)

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L		Q
					
74-87-3	Chloromethane			10	<u> </u>
75-01 -4	Vinyl chloride			10	U
75-00-3	Chloroethane			10	U
74-83-9	Bromomethane			10	U
67-64-1	Acetone			10	. U
75-09-2	Methylene chlor	ide		10	U
75-15-0	Carbon disulfide	<u> </u>		10	U
78-93-3	2-Butanone			10	U
156-59-2	cis-1,2-Dichloroe	ethen e		5	J
67-66-3	Chloroform			10	Ü
107-06-2	1,2-Dichloroetha	ine		10	U
71-55-6	1,1,1-Trichloroet	hane		10	U
71-43-2	Benzene			10	U
79-0 1-6	Trichloroethene			10	U
75-27-4	Bromodichlorom	ethane		10	U
10061-01-5	cis-1,3-Dichlorop	oropen e		10	U
10061-02-6	trans-1,3-Dichlor	roprope ne		10	U
79-0 0-5	1,1,2-Trichloroet	hane		10	U
124-48-1	Dibromochlorom	nethan e		10	U
75-2 5-2	Bromoform			10	U
108-10-1	4-Methyl-2-penta	anone		10	U
108-88-3	Toluene	· · · · · · · · · · · · · · · · · · ·		10	Ū
591-78-6	2-Hexanone			10	U
127-18-4	Tetrachloroether	ne		10	U
108-90-7	Chlorobenzene			10	U
100-41-4	Ethylbenzene			10	Ū
108-38-3/106-42-3	(m+p)Xylene			10	U
100-42-5	Styrene			10	U
79-34-5	1,1,2,2-Tetrachle	oroethane		10	U
95-47-6	o-Xylene			10	U
156-6 0-5	trans-1,2-Dichlor	roethene		10	Ū
75-35 -4	1,1-Dichloroethe			10	Ū
75-34-3	1,1-Dichloroetha			10	Ū
56-23-5	Carbon tetrachic			10	Ü
78-87-5	1,2-Dichloroprop			10	U

Lab Name:	casvoch			Contrac	t: searb			DUP	
Lab Code:	10145	Cas	se No.: r23-160	- 46 SAS	No.:	SI	DG No.:	625776	5
Matrix: (soil/	water)	WATER	•	1	Lab Sampl	e ID:	625779	1.0	
Sample wt/vo	ol:	5.0	(g/ml) ML		Lab File ID	:	A6629.D		
Level: (low/n	ned)	LOW		ĺ	Date Recei	ved:	03/13/03		
% Moisture: r	not dec.			Į.	Date Analy	zed:	03/19/03		
GC Column:	db-624	ID: <u>0.3</u>	2 (mm)	ſ	Dilution Fa	ctor:	1.0		
Soil Extract V	/olume _		(uL)	;	Soil Aliquot	Volu	me:		(uL)
				NCENTR	ATION UN				
Number TICs	found:	0	·						
CAS NO.		COMPOU	ND		RT	ES	T. CONC		Q

EPA SAMPLE NO.

TRIP BLANK

Lab Name:	cas/rocl	<u> </u>		Contract: searb	
Lab Code:	10145		Case No.: <u>r23-1604&</u>	SAS No.:	SDG No.: 625776
Matrix: (soil/	water)	WATER	₹	Lab Sample	ID: 625780 1.0
Sample wt/v	ol:	5.0	(g/ml) ML	Lab File ID:	A6630.D
Level: (low/r	me d)	LOW	_	Date Receiv	ed: <u>03/13/03</u>
% Moisture:	not dec.			Date Analyzo	ed: 03/19/03
GC Colum n :	db-624	ID:	0.32 (mm)	Dilution Fact	or: <u>1.0</u>
Soil Extract \	Volume		(uL)	Soil Aliquot	Volume: (uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	. 10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	Ū
78-93-3	2-Butanone	10	Ü
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-0 0-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzen e	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	Ū

Lab Name:	cas\roc	h		c	ontrac	:	searb		IRIP	BLAN	<u></u>
Lab Code:	10145	Ca	se No.: <u>r23</u> -	خ1604	SAS	No	.:	_ SI	DG No.: _	62 5776	<u> </u>
Matrix: (soil/	water)	WATER	_	·	1	Lat	Sample	ID:	625780 1	.0	
Sample wt/v	ol:	5.0	(g/ml) ML		!	Lat	File ID:		A6630.D		
Level: (low/r	med)	LOW	-		+	Dat	e Receiv	e d :	03/13/03		
% Moisture:	not dec.		- 		1	Dat	e Analyz	ed:	03/19/03		
GC Column:	db-62	4 ID: 0.	32 (mm)		1	Dilı	ution Fac	tor:	1.0		
Soil Extract \	Volume		_ (uL)		ţ	Soi	l Aliquot	Volu	me:		(uL)
				CONC	ENTR	TA	ION UNI	TS:			
Number TICs	s found:	0	_	(ug/L (or ug/K	(g)	UG/	<u> </u>			
CAS NO.		COMPOL	IND				RT	ES	T. CONC		Q

EPA SAMPLE NO.

Lab Name:	cas\roch) 		Contract: searb	COOLER BLANK
Lab Code:	10145	Cas	se No.: <u>r23-16048</u>	SAS No.:	SDG No.: 625776
Matrix: (soil/v	water)	WATER	_	Lab Sample II	D: <u>625781 1.0</u>
Sample wt/vo	ol:	5.0	(g/ml) ML	Lab File ID:	A6631.D
Level: (low/n	ned)	LOW	_	Date Receive	d: 03/13/03
% Moisture: r	not dec.			Date Analyze	1: 03/19/03
GC Column:	db-624	I ID: <u>0.3</u>	32 (mm)	Dilution Facto	r: <u>1.0</u>
Soil Extract V	/olume _	· · · · · · · · · · · · · · · · · · ·	_ (uL)	Soil Aliquot V	olume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	Ü
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	Ū
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-47-6	o-Xylene	10	Ü
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

FORM I VOA

EPA SAMPLE NO.

COOLER BLANK Lab Name: cas\roch Contract: searb Case No.: r23-1604% SAS No.: SDG No.: 625776 Lab Code: 10145 WATER Matrix: (soil/water) Lab Sample ID: 625781 1.0 5.0 Sample wt/vol: (g/ml) **ML** Lab File ID: A6631.D Level: (low/med) LOW Date Received: 03/13/03 Date Analyzed: 03/19/03 % Moisture: not dec. GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume (uL) Soil Aliquot Volume: (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) Number TICs found: RT Q COMPOUND EST. CONC. CAS NO.

EPA SAMPLE NO.

Lab Name:	cas\roc	<u> </u>		Contra	act:	sear-brown	<u> </u>	B21-S	╝
Lab Code:	10145		Case No.: <u>r3-16</u>	744 SAS	S No).:	SDG No	o.: <u>638680</u>	
Matrix: (soil/	water)	SOIL			La	b Sample ID	D: <u>6386</u>	80 2.0	_
Sample wt/vo	ol:	2.5	(g/ml) <u>G</u>		Lai	b File ID:	A956	1.D	
Level: (low/r	ned)	LOW			Da	te Received	1: <u>05/05</u>	5/03	
% Moisture: ı	not dec.	18.9			Da	te Analyzed	: 05/08	3/03	
GC Column:	db-624	ID:	<u>0.32</u> (mm)		Dil	ution Factor	: <u>1</u>	2.0 BAUG	
Soil Extract \	/olume	 	(uL)		So	il Aliquot Vo	lume: _	(uL)

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
74-87-3	Chloromethane			25	υ
75-01-4	Vinyl chloride			25	U
75-00-3	Chloroethane			25	U
74-83-9	Bromomethane			25	U
67-64-1	Acetone			59	
75-09-2	Methylene chloric	de		25	U
75-15-0	Carbon disulfide			25	U
78-93-3	2-Butanone			25	U
156-59-2	cis-1,2-Dichloroe	thene	_ 2	30	
67-66-3	Chloroform			25	U
107-06-2	1,2-Dichloroethai	ne		25	U
71-55-6	1,1,1-Trichloroeti	nane		25	·U
71-43-2	Benzene			25	U
79-01-6	Trichloroethene			25	U
75-27-4	Bromodichlorome	ethane		25	U
10061-01-5	cis-1,3-Dichlorop	ropen e		25	U
10061-02-6	trans-1,3-Dichlore	opropen e		25	U
79-00-5	1,1,2-Trichloroeth	nane		25	U
124-48-1	Dibromochlorome	ethan e		25	U
75-25-2	Bromoform			25	υIJ
108-10-1	4-Methyl-2-penta	none		25	U
108-88-3	Toluene			25	U
591-78-6	2-Hexanone			25	U
127-18-4	Tetrachloroethen	е		25	U
108-90-7	Chlorobenzene			25	U
100-41-4	Ethylbenzene			25	U
108-38-3/106-42-3	(m+p)Xylene			25	U
100-42-5	Styrene			25	U
79-34-5	1,1,2,2-Tetrachlo	roethan e		25	U
95-47-6	o-Xylene			25	U
156-60-5	trans-1,2-Dichlord	oethene		25	U
75-35-4	1,1-Dichloroether	ne		25	U
75-34-3	1,1-Dichloroethar	ne		8	J
56-23-5	Carbon tetrachlor	ride		25	U
78-87-5	1,2-Dichloropropa			25	U

EPA SAMPLE NO.

B21-S Contract: sear-brown Lab Name: cas\roch SAS No.: _____ SDG No.: 638680 Case No.: r3-16744 Lab Code: 10145 Lab Sample ID: 638680 2.0 Matrix: (soil/water) SOIL 2.5 (g/ml) G Lab File ID: A9561.D Sample wt/vol: Date Received: 05/05/03 Level: (low/med) LOW Date Analyzed: 05/08/03 % Moisture: not dec. 18.9 Dilution Factor: 10 2.0 64616 GC Column: db-624 ID: 0.32 (mm) Soil Aliquot Volume: 1 Soil Extract Volume 1 (uL) (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Number TICs found: 14

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown cyclic hydrocarbon	19.91	360	J
2. 002847-72-5	Decane, 4-methyl-	20.52	470	JN
3.	unknown alkane c11	20.99	230	J
4. 000493-02-7	Naphthalene, decahydro-, trans-	22.26	530	JN
5,	unknown branched cyclic alkane	22.43	280	J
6.	unknown hydrocarbon	22.56	480	J
7. 000506-52-5	1-Hexacosanol	22.79	540	JN
8.	unknown hydrocarbon	23.41	380	J
9.	unknown hydrocarbon	23.59	700	J
10.	unknown hydrocarbon	24.02	480	J
11. 006044-71-9	Dodecane, 6-methyl-	24.92	390	JN
12.	unknown hydrocarbon	25.11	370	J
13.	unknown alkane	26.12	500	J
14.	unknown hydrocarbon	26.42	290	J

EPA SAMPLE NO.

B24-S Lab Name: cas\roch Contract: sear-brown Lab Code: 10145 Case No.: r3-16744 SAS No.: SDG No.: 638680 SOIL Lab Sample ID: 638681 1.0 Matrix: (soil/water) 5.0 Sample wt/vol: Lab File ID: A9573.D (g/ml) G Level: (low/med) LOW Date Received: 05/05/03 % Moisture: not dec. 17.3 Date Analyzed: 05/09/03 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: Soil Extract Volume (uL) (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	12	U
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	U
78-93-3	2-Butanone	12	C
156-59-2	cis-1,2-Dichloroethene	360 290	Ē
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	84	
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
108-38-3/106-42-3	(m+p)Xylene	12	U
100-42-5	Styrene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
95-47-6	o-Xylene	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	2	J
56-23-5	Carbon tetrachloride	12	U
78-87-5	1,2-Dichloropropane	12	U

Lab Name:	cas\roch	-	Contract	sear-br	own B24-	s
Lab Code:	10145	Case No.: <u>r3-16</u>	744 SAS N	lo.:	SDG No.: 638	680
Matrix: (soil/	water) SOIL	_	٠ ٤	ab Sample	e ID: 638681 1.0	
Sample wt/vo	ol: <u>5.0</u>	(g/ml) <u>G</u>	L	ab File ID	: A9573.D	
Level: (low/r	ned) <u>LOW</u>			ate Recei	ved: 05/05/03	
% Moisture:	not dec. 17.3			ate Analy	zed: 05/09/03	
GC Column:	db-624 ID:	0.32 (mm)		ilution Fa	ctor: <u>1.0</u>	
Soil Extract \	/olume 1	(uL)	S	oil Aliquot	Volume: 1	(uL)
Number TICs	s found:0	<u> </u>	CONCENTR/ (ug/L or ug/K		IITS: 6/KG	
CAS NO.	сом	POUND	1	RT	EST. CONC.	Q

EPA SAMPLE NO.

Lab Name: cas\roch Contract: sear-brown

Lab Code: 10145 Case No.: r3-16744 SAS No.: SDG No.: 638680

Matrix: (soil/water) SOIL Lab Sample ID: 638682 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A9563.D

Level: (low/med) LOW Date Received: 05/05/03

% Moisture: not dec. 16.8 Date Analyzed: 05/08/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	21	
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	U
78-93-3	2-Butanone	12	U
156-59-2	cis-1,2-Dichloroethene	2	J
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	3	J
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	しょ
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	υ
108-38-3/106-42-3	(m+p)Xylene	12	U
100-42-5	Styrene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
95-47-6	o-Xylene	12	U
156-60-5	trans-1,2-Dichloroethene	12	υ
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
78-87-5	1,2-Dichloropropane	12	U

Lab Name:	cas\roch)			Contract:	sear-bro	own	5	B25-S	
Lab Code:	10145		ase No.: <u>r</u> 3	-16744	SAS No			3 No.:	638680	
Matrix: (soil/	water)	SOIL	_		La	b Sample	e ID: 6	38682	1.0	
Sample wt/vo	ol:	5.0	(g/ml) <u>C</u>	<u> </u>	La	b File ID:	. <u>A</u>	9563.D)	
Level: (low/r	ned)	LOW	_		Da	te Recei	ved: 0	5/05/03	3	
% Moisture:	not dec.	16.8			Da	te Analy	zed: <u>0</u>	5/08/03	3	
GC Column:	db-624	ID: 0).32 (mm	1)	Dil	ution Fac	ctor: <u>1</u>	.0		
Soil Extract \	/olume	1	(uL)		So	il Aliquot	Volum	ie: <u>1</u>	1	(uL)
Number TICs	s found:	0			NCENTRA L or ug/Kg)		IITS: /KG			
CAS NO.		СОМРС	UND			RT	EST	. CON	5.	Q

EPA SAMPLE NO.

B26-S

Lab Name: cas\roch Contract: searb

Lab Code: SAS No.: SDG No.: 638680 10145 Case No.: r3-16744

Lab Sample ID: 638683 125.0 Matrix: (soil/water) SOIL

Sample wt/vol: 4.0 (g/ml) G Lab File ID: A9587.D

Level: (low/med) MED Date Received: 05/05/03

% Moisture: not dec. 12.3 Date Analyzed: 05/12/03

GC Column: db-624 | ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1400	U
75-01-4	Vinyl chloride	1400	U
74-83-9	Bromomethane	1400	U
75-00-3	Chloroethane	1400	U
75-35-4	1,1-Dichloroethene	1400	C
67-64-1	Acetone	1400	U
75-15-0	Carbon disulfide	1400	U
75-09-2	Methylene chloride	1400	U
156-60-5	trans-1,2-Dichloroethene	1400	J
75-34-3	1,1-Dichloroethane	1400	U
78-93-3	2-Butanone	1400	C
156-59-2	cis-1,2-Dichloroethene	2000	
67-66-3	Chloroform	1400	U
107-06-2	1,2-Dichloroethane	1400	J
71-55-6	1,1,1-Trichloroethane	1400	U
56-23-5	Carbon tetrachloride	1400	J
71-43-2	Benzene	1400	J
79-01-6	Trichloroethene	18000	
78-87 -5	1,2-Dichloropropane	1400	٦
75-27-4	Bromodichloromethane	1400	U
10061-01-5	cis-1,3-Dichloropropene	1400	C
10061-02-6	trans-1,3-Dichloropropene	1400	C
79-00-5	1,1,2-Trichloroethane	1400	C
124-48-1	Dibromochloromethane	1400	U
75-25-2	Bromoform	1400	U
108-10-1	4-Methyl-2-pentanone	1400	حا
108-88-3	Toluene	1400	כ
127-18-4	Tetrachloroethene	1400	J
591-78-6	2-Hexanone	1400	U
108-90-7	Chlorobenzene	1400	Ū
100-41-4	Ethylbenzene	1400	U
108-38-3/106-42-3	(m+p)Xylene	1400	Ū
95-47 - 6	o-Xylene	1400	U
100-42-5	Styrene	1400	Ū
79-34-5	1,1,2,2-Tetrachloroethane	1400	Ü

l - b Alaa-	\				Contract	searb	1	B26-S	
Lab Name:	cas\roch	<u> </u>			Contract:	Searu			
Lab Code:	10145		Case No.: r3-	16744	SAS No).:	SDG No.	638680	
Matrix: (soil/v	vater)	SOIL			Lai	b Sample II	D: <u>638683</u>	3 125.0	
Sample wt/vo	ol:	4.0	(g/ml) <u>G</u>	<u> </u>	Lal	b File ID:	A9587	.D	
Level: (low/r	ned)	MED			Da	te Receive	d: <u>05/05/</u> 0	03	
% Moisture: ı	not dec.	12.3			Da	te Analyze	d: <u>05/12/</u> 0	03	
GC Column:	db-624	ID:	0.32 (mm)	Dil	ution Facto	or: <u>1.0</u>		
Soil Extract \	/olume _	10000	(uL)		So	il Aliquot V	olume: <u>10</u>	00 '	(uL
						TION UNIT			
Number TICs	s found:	7		(ug/L	or ug/Kg)	UG/K	<u>G</u>		
							·		

			T **	
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.97	1300	JN
2. 001120-21-4	Undecane	22.41	2000	JN
3.	unknown hydrocarbon	22.85	780	J
4.	unknown hydrocarbon	23.64	930	7
5. 004292-92-6	Cyclohexane, pentyl-	23.72	830	JN
6.	unknown hydrocarbon	24.08	870_	J
7. 000112-40-3	Dodecane	24,66	920	JN

EPA SAMPLE NO.

B28-S

Lab Name:	cas\rocl	h		Contract:	sear-brown		
Lab Code:	10145		Case No.: r3-16744	SAS No	.: s	DG No.: 638680) <u>. </u>
Matrix: (soil/	water)	SOIL		Lat	Sample ID:	638686 2.5	
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	Lal	File ID:	A9557.D	
Level: (low/i	med)	LOW		Da	te Received:	05/05/03	
% Moisture:	not dec.	23.2		Da	te Analyzed:	05/08/03	
GC Column:	db-624	4 ID:	<u>0.32</u> (mm)	Dile	ution Factor:	1.0	
Soil Extract \	Volume		(uL)	Sol	il Aliquot Vol	ume:	(uL)

COMPOUND (ug/L or ug/Kg)	UG/KG	Q
Chloromethane	33	U
	33	U
Chloroethane	33	U
Bromomethane	33	U
Acetone	57	
Methylene chloride	33	C
Carbon disulfide	33	U
2-Butanone	33	Ü
cis-1,2-Dichloroethene	29	J
Chloroform	33	U
1,2-Dichloroethane	33	U
1,1,1-Trichloroethane	33	U
Benzene	33	U
Trichloroethene	33	U
Bromodichloromethane	33	U
cis-1,3-Dichloropropene	33	U
	33	U
1,1,2-Trichloroethane	33	Ū
Dibromochloromethane	33	U
Bromoform	33	UJ
4-Methyl-2-pentanone	33	U
Toluene	29	J
<u> </u>	33	U
	20	J
	33	U
	61	
		U
		U
	33	U
	33	Ū
	6	J
		U
	33	U
	Chloromethane Vinyl chloride Chloroethane Bromomethane Acetone Methylene chloride Carbon disulfide 2-Butanone cis-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Benzene Trichloroethene Bromodichloromethane cis-1,3-Dichloropropene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Dibromochloromethane Bromoform 4-Methyl-2-pentanone Toluene 2-Hexanone Tetrachloroethene Chlorobenzene Ethylbenzene (m+p)Xylene Styrene 1,1,2,2-Tetrachloroethane o-Xylene trans-1,2-Dichloroethene 1,1-Dichloroethene	Chloromethane 33 Vinyl chloride 33 Chloroethane 33 Bromomethane 33 Acetone 57 Methylene chloride 33 Carbon disulfide 33 2-Butanone 33 cis-1,2-Dichloroethene 29 Chloroform 33 1,2-Dichloroethene 33 1,1,1-Trichloroethane 33 Benzene 33 Trichloroethene 33 Bromodichloromethane 33 cis-1,3-Dichloropropene 33 1,1,2-Trichloroethane 33 Dibromochloromethane 33 Bromoform 33 4-Methyl-2-pentanone 33 Toluene 29 2-Hexanone 33 Tetrachloroethene 20 Chlorobenzene 33 Ethylbenzene 61 (m+p)Xylene 250 Styrene 33 1,1,2,2-Tetrachloroethene 33 0-Xylene

EPA SAMPLE NO.

B28-S Lab Name: cas\roch Contract: sear-brown Lab Code: 10145 Case No.: <u>r</u>3-16744 SAS No.: <u>SDG No.:</u> 638680 Lab Sample ID: 638686 2.5 SOIL Matrix: (soil/water) 5.0 Lab File ID: A9557.D Sample wt/vol: (g/ml) G LOW Date Received: 05/05/03 Level: (low/med) Date Analyzed: 05/08/03 % Moisture: not dec. 23.2 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.93	4400	JN
2. 002847-72-5	Decane, 4-methyl-	20.53	1100	JN
3. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.73	1200	JN
4. 001678-93-9	Cyclohexane, butyl-	21.21	750	JN
5. 000141-93-5	Benzene, 1,3-diethyl-	22.16	690	JN
6.	unknown aromatic	22.26	700	J
7. 001120-21-4	Undecane	22.36	4300	JN
8.	unknown aromatic	22.57	930	J
9.	unknown hydrocarbon	22.80	1400	J
10.	unknown hydrocarbon	23.42	740	J
11.	unknown hydrocarbon	23.59	1200	J
12.	unknown hydrocarbon	24.02	990	J
13. 000112-40-3	Dodecane	24.60	2400	JN
14. 000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	24.77	1000	JN
15. 000629-50-5	Tridecane	26.59	700	JN

EPA SAMPLE NO.

B29-\$

Lab Name:	cas\roc	<u> </u>		Contract:	searb	
Lab Code:	10145		Case No.: <u>r3-16744</u>	SAS No	.: s	DG No.: 638680
Matrix: (soil/	water)	SOIL		Lat	Sample ID:	638687 125.0
Sample wt/ve	ol:	4.0	(g/ml) <u>G</u>	Lat	File ID:	A9588.D
Level: (low/r	ned)	MED		Dat	te Received:	05/05/03

% Moisture: not dec. 20.1 Date Analyzed: 05/12/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl chloride	1600	U
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-35-4	1,1-Dichloroethene	1600	U
67-64-1	Acetone	1600	U
75-15-0	Carbon disulfide	1600	U
75-09-2	Methylene chloride	1600	U
156-60-5	trans-1,2-Dichloroethene	1600	U
75-34-3	1,1-Dichloroethane	1600	U
78-93-3	2-Butanone	1600	U
156-59-2	cis-1,2-Dichloroethene	1600	U
67-66-3	Chloroform	1600	U
107-06-2	1,2-Dichloroethane	1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
56-23-5	Carbon tetrachloride	1600	U
71-43-2	Benzen e	1600	Ų
79-01-6	Trichloroethene	_1600	U
78-87 - 5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
10061-02-6	trans-1,3-Dichloropropene	1600	U
79-00-5	1,1,2-Trichloroethane	1600	U
124-48-1	Dibromochloromethane	1600	υ
75-25-2	Bromoform	1600	U
108-10-1	4-Methyl-2-pentanone	1600	U
108-88-3	Toluene	1600	U
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
108-90-7	Chlorobenzene	1600	U
100-41-4	Ethylbenzene	740	J
108-38-3/106-42-3	(m+p)Xylene	1600	U
95-47-6	o-Xylene	1600	U
100-42-5	Styrene	1600	U
79-34-5	1,1,2,2-Tetrachloroethane	1600	υ

EPA SAMPLE NO.

(uL)

 Lab Name:
 cas\roch
 Contract:
 searb

 Lab Code:
 10145
 Case No.:
 r3-16744
 SAS No.:
 SDG No.:
 638680

Matrix: (soil/water) SOIL Lab Sample ID: 638687 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: A9588.D

Level: (low/med) MED Date Received: 05/05/03

% Moisture: not dec. 20.1 Date Analyzed: 05/12/03

20 October 4h 624 ID: 0.22 (mm) Dilution Forter 1.0

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS	s NO.	COMPOUND	RT	EST. CONC.	Q
1.	000108-67-8	Benzene, 1,3,5-trimethyl-	20.78	35000	JN
2.	001678-93-9	Cyclohexane, butyl-	21.26	20000	JN
3.	000091-17-8	Naphthalene, decahydro-	22.31	33000	JN
4.	001074-17-5	Benzene, 1-methyl-2-propyl-	22.62	42000	JN
5.	000099-87-6	Benzene, 1-methyl-4-(1-methylet	22.86	36000	7
6.	000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	23.01	28000	J
7.		unknown branched aromatic hydr	23.49	24000	J
8.		unknown hydrocarbon	23.65	47000	J
9.	000527-53-7	Benzene, 1,2,3,5-tetramethyl-	23.95	25000	JN
10.		unknown hydrocarbon	24.08	42000	J
11.		unknown hydrocarbon	24.59	20000	J
12.		unknown aromatic hydrocarbon	24.70	21000	J
13.	000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	24.84	58000	JN
14.	000091-20-3	Naphthalene	26.18	29000	JN
15.		unknown hydrocarbon	26.48	30000	J

EPA SAMPLE NO.

B30-\$

Lab Name:	cas\roct	1		Contract:	sear-brown		
Lab Code:	10145		Case No.: <u>r3-16744</u>	SAS No	o.: \$	SDG No.: 638680	
Matrix: (soil/	water)	SOIL		La	b Sample ID:	638688 2.0	
Sample wt/ve	ol:	5.0	(g/ml) <u>G</u>	La	b File ID:	A9558.D	
Level: (low/r	ned)	LOW		Da	te Received:	05/05/03	
% Moisture:	not dec.	16.1		Da	te Analyzed:	05/08/03	
GC Column:	db-624	ID:	<u>0.32</u> (mm)	Dil	ution Factor:	1.0	
Soil Extract \	√olume		(uL)	So	il Aliquot Vol	lume:	(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	_	Q
74-87-3	Chloromethane			24	U
75-01-4	Vinyl chloride	:		24	U
75-00-3	Chloroethane			24	U
74-83-9	Bromomethane			24	U
67-64-1	Acetone			85	
75-09-2	Methylene chlorid	le		24	U
75-15-0	Carbon disulfide			24	υ
78-93-3	2-Butanone			13	J
156-59-2	cis-1,2-Dichloroet	hene		24	U
67-66-3	Chloroform		·	24	U
107-06-2	1,2-Dichloroethan	ie		24	U
71-55-6	1,1,1-Trichloroeth	ane		24	U
71-43-2	Benzen e			24	U
79-01-6	Trichloroethene			24	U
75-27-4	Bromodichlorome	thane		24	U
10061-01-5	cis-1,3-Dichloropi	ropen e		24	U
10061-02-6	trans-1,3-Dichloro	propene		24	U
79-00-5	1,1,2-Trichloroeth	ane		24	U
124-48-1	Dibromochlorome	ethane		24	U
75-25-2	Bromoform			24	ロゴ
108-10-1	4-Methyl-2-pentar	nonė		24	U
108-88-3	Toluene			6	J
591-78-6	2-Hexanone			24	U
127-18-4	Tetrachloroethen	e		24	U
108-90-7	Chlorobenzene			24	U
100-41-4	Ethylbenzene			13	J
108-38-3/106-42-3	(m+p)Xylene			34	
100-42-5	Styrene			24	U
79-34-5	1,1,2,2-Tetrachlo	roethan e		24	U
95-47-6	o-Xylene			47	
156-60-5	trans-1,2-Dichloro	ethen e		24	U
75-35-4	1,1-Dichloroether	ie		24	U
75-34-3	1,1-Dichloroethar	ie		24	U
56-23-5	Carbon tetrachlor	ide		24	U
78-87-5	1,2-Dichloropropa	ane		24	U

EPA SAMPLE NO.

Lab Name:	cas\rock	1		Contract:	sear-brown	B30-S	
Lab Code:	10145		Case No.: <u>r3-16744</u>	_ SAS No	o.: 8	SDG No.: 638680	
Matrix: (soil/\	water)	SOIL		La	b Sample ID:	638688 2.0	
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	_ La	b File ID:	A9558.D	
Level: (low/r	med)	LOW	· 	Da	ite Received:	05/05/03	
% Moisture:	not dec.	16.1		Da	ite Analyzed:	05/08/03	
GC Column:	db-624	4_ ID:	0.32 (mm)	Dil	lution Factor:	1.0	
Soil Extract \	√olume <u> </u>	1	(uL)	So	il Aliquot Vol	lume: 1	(uL
			CO	NCENTDA:	ZIMU MOIT		

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS	S NO.	COMPOUND	RT	EST. CONC.	σ
1.		unknown hydrocarbon	19.57	450	J
2.		unknown cyclic hydrocarbon	19.91	690	j
3.	002847-72-5	Decane, 4-methyl-	20.52	680	JN
4.	000108-67-8	Benzene, 1,3,5-trimethyl-	20.72	370	JN
5.	001678-93-9	Cyclohexane, butyl-	21.20	400	JN
6.		unknown alkane	21.51	350	J
7.	000141-93-5	Benzene, 1,3-diethyl-	22.15	330	JN
8.	000493-02-7	Naphthalene, decahydro-, trans-	22.25	430	JN
9.	001074-17-5	Benzene, 1-methyl-2-propyl-	22.56	520	JN
10.		unknown hydrocarbon	22.79	670	J
11.		unknown hydrocarbon	23.41	410	7
12		unknown hydrocarbon	23.58	670	7
13.		unknown hydrocarbon	24.01	550	J
14.	000527-84-4	Benzene, 1-methyl-2-(1-methylet	24.77	410	JN
15.	006044-71-9	Dodecane, 6-methyl-	24.93	340	JN

EPA SAMPLE NO.

Lab Name:	cas\roct	·		Contract:	searb	B27-W	
Lab Code:	10145	Case No	.: <u>r3-16744</u>	SAS No	.: s	SDG No.: 63868	30
Matrix: (soil/	water)	WATER		Lat	Sample ID:	638689 1.0	_
Sample wt/ve	ol:	5.0 (g/m	il) ML	Lat	File ID:	A9611.D	_
Level: (low/r	med)	LOW		Da	le Received:	05/05/03	_
% Moisture:	not dec.			Da	le Analyzed:	05/13/03	_
GC Column:	db-624	ID: <u>0.32</u>	(mm)	Dile	ution Factor:	1.0	_
Soil Extract \	Volume .	(uL)	. · Soi	il Aliquot Vol	ume:	_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	· U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	13	
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	Ü
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55 -6	1,1,1-Trichloroethane	10	U
56-23 -5	Carbon tetrachloride	10	U
71-43-2	Benzen e	10	し
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27 -4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25 -2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	UJ
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	ני
100-41-4	Ethylbenzene	10	UŠ
108-38-3/106-42-3	(m+p)Xylene	10	US
95-47-6	o-Xylene	10	U J
100-42-5	Styrene	10	UJ
79-34-5	1,1,2,2-Tetrachloroethane	10	U

ASP 2000

EPA SAMPLE NO.

Lab Name:	cas\roch		Contract: searb	\	B27-W
Lab Code:	10145	Case No.: <u>r3-16744</u>	SAS No.:	SDG No	o.: <u>638680</u>

Matrix: (soil/water) WATER Lab Sample ID: 638689 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A9611.D

Level: (low/med) LOW Date Received: 05/05/03

% Moisture: not dec. Date Analyzed: 05/13/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume:

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.74	26	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	21.63	18	JN
3. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.59	12	JN
4. 025155-15-1	Benzene, methyl(1-methylethyl)-	22.82	16	JN
5. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	22.97	11	JN
6.	unknown aromatic hydrocarbon	23.25	10	J
7	unknown hydrocarbon	23.44	10	J
8.	unknown hydrocarbon	23.62	22	J
9. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	23.91	11	JN
10.	unknown hydrocarbon	24.04	14	J
11. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	24.80	35	JN
12. 006044-71-9	Dodecane, 6-methyl-	24.94	18	JN
13. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	25.20	11	JN
14. 000091-20-3	Naphthalene	26.15	26	JN
15.	unknown hydrocarbon	27.78	10	J

EPA SAMPLE NO.

Lab Name:	cas/roc	<u>h</u>		Contract:	searb	DUP-W	
Lab Code:	10145	Cas	se No.: <u>r3-16744</u>	SAS No.:		OG No.: 638680	
Matrix: (soil/	water)	WATER		Lab	Sample ID:	638690 1.0	
Sample wt/v	ol:	5.0	(g/ml) ML	Lab	File ID:	A9610.D	
Level: (low/	med)	LOW		Date	Received:	05/05/03	
% Moisture:	not dec.			Date	Analyzed:	05/13/03	
GC Column:	db-62	4 ID: <u>0.3</u>	(mm)	Dilut	ion Factor:	1.0	
Soil Extract '	Volume		(uL)	Soil	Aliquot Volur	me:	(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride	:	10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	υ
75-35-4	1,1-Dichloroethe	ne	10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chlori	de	10	U
156-60-5	trans-1,2-Dichlor	oethene	10	U
75-34-3	1,1-Dichloroetha	ne	10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroe	thene	10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroetha	ne	10	U
71-55-6	1,1,1-Trichloroet	ha ne	10	U
56-23-5	Carbon tetrachlo	ride	10	U
71-43-2	Benzene		10	U
79-01 - 6	Trichloroethene		4	J
78-87-5	1,2-Dichloroprop	ane	10	U
75-27-4	Bromodichlorom	ethane	10	U
10061-01-5	cis-1,3-Dichlorop	ropene	10	U
10061-02-6	trans-1,3-Dichlor	opropen e	10	U
79-00-5	1,1,2-Trichloroet	hane	10	U
124-48-1	Dibromochlorom	ethan e	10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-penta	none	10	U
108-88-3	Toluene		10	U
127-18-4	Tetrachloroethen	e	10	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		4	J
108-38-3/106-42-3	(m+p)Xylene		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styren e		10	U
79-34-5	1,1,2,2-Tetrachlo	roethane	10	U

EPA SAMPLE NO.

DUP-W Lab Name: cas\roch Contract: searb Lab Code: 10145 Case No.: r3-16744 SAS No.: SDG No.: 638680 Matrix: (soil/water) WATER Lab Sample ID: 638690 1.0 5.0 (g/ml) ML Sample wt/vol: Lab File ID: A9610.D Date Received: 05/05/03 Level: (low/med) LOW Date Analyzed: 05/13/03 % Moisture: not dec. GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Number TICs found: 15

	i	. , , — 		
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000103-65-1	Benzene, propyl-	19.62	8	JN
2. 000611-14-3	Benzene, 1-ethyl-2-methyl-	19.85	6	JN
3. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.74	44	JN
4. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.59	7	JN
5. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	22.76	6	JN
6. 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	22.82	7	JN
7. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	22.97	12	JN
8.	unknown aromatic hydrocarbon	23.25	9	J
9. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	23.80	7	JN
10. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	23.91	9	JN
11.	unknown aromatic hydrocarbon	24.84	23	J
12. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	25.21	10	JN
13.	unknown aromatic	25.81	8	J
14. 000091-20-3	Naphthalene	26.15	8	JN
15. 001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-	27.78	6	JN

EPA SAMPLE NO.

Lab Name:	cas\rocl	າ		Contract: searb		D13-AA
Lab Code:	10145	Cas	se No.: <u>r3-16744</u>	SAS No.:	SDG No	.: <u>638680</u>
Matrix: (soil/	water)	WATER	-	Lab Sample	e ID: <u>63869</u>	91 1.0
Sample wt/ve	ol:	5.0	(g/ml) ML	Lab File ID:	: <u>A9599</u>	9.D
Level: (low/r	ned)	LOW	_	Date Recei	ved: <u>05/05</u>	/03
% Moisture:	not dec.			Date Analy:	zed: <u>05/12</u>	/03
GC Column:	db-62	4 ID: 0.3	3 <mark>2 (mm)</mark>	Dilution Fac	ctor: <u>1.0</u>	.
Soil Extract \	Volume		_ (uL)	Soil Aliquot	Volume: _	

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L		Q
74-87-3	Chloromethane			10	U
75-01-4	Vinyl chloride			10	U
74-83-9	Bromomethane			10	U
75-00-3	Chloroethane			10	U
75-35-4	1,1-Dichloroethen	e		10	U
67-64-1	Acetone			10	U
75-15-0	Carbon disulfide			10	U
75-09-2	Methylene chlorid	е		10	U
156-60-5	trans-1,2-Dichloro	ethene		10	U
75-34-3	1,1-Dichloroethan	е		10	U
78-93-3	2-Butanone			10	U
156-59-2	cis-1,2-Dichloroet	hen e		10	U
67-66-3	Chloroform			10	U
107-06-2	1,2-Dichloroethan	е		10	U
71-55-6	1,1,1-Trichloroeth	ane		10	U
56-23-5	Carbon tetrachlor	ide		10	U
71-43-2	Benzen e			10	U
79-01-6	Trichloroethene			4	J
78-87-5	1,2-Dichloropropa	ne		10	U
75-27-4	Bromodichlorome			10	U
10061-01-5	cis-1,3-Dichloropr	opene		10	U
10061-02-6	trans-1,3-Dichloro	propene		10	U
79-00-5	1,1,2-Trichloroeth	ane		10	U
124-48-1	Dibromochlorome	thane		10	U
75-25-2	Bromoform			10	U
108-10-1	4-Methyl-2-pentar	none		10	U
108-88-3	Toluene			10	C
127-18-4	Tetrachloroethene	9		10	U
591-78-6	2-Hexanone			10	J
108-90-7	Chlorobenzene			10	U
100-41-4	Ethylbenzene			4	J
108-38-3/106-42-3				10	U
95-47-6	o-Xylene			10	U
100-42-5	Styrene			10	U
79-34-5	1,1,2,2-Tetrachlor	oethane		10	U

EPA SAMPLE NO.

B19-W Lab Name: cas\roch Contract: searb Case No.: r3-16744 SAS No.: _____ SDG No.: 638680 Lab Code: 10145 Matrix: (soil/water) WATER Lab Sample ID: 638691 1.0 5.0 (g/ml) ML Lab File ID: Sample wt/vol: A9599.D Level: (low/med) LOW Date Received: 05/05/03 % Moisture: not dec. Date Analyzed: 05/12/03 GC Column: <u>db-624</u> ID: <u>0.32</u> (mm) Dilution Factor: 1.0 Soil Aliquot Volume: Soil Extract Volume (uL) (uL) **CONCENTRATION UNITS:**

(ug/L or ug/Kg) UG/L

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000103-65-1	Benzene, propyl-	19.64	9	JN
2. 000095-63-6	Benzene, 1,2,4-trimethyl-	20.77	45	JN
3.	unknown aromatic hydrocarbon	22.09	6	J
4. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.61	7	JN
5. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	22.78	6	JN
6. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	22.84	8	JN
7. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	22.99	12	JN
8.	unknown hydrocarbon	23.27	9	J
9. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	23.82	8	JN
10. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	23.94	10	JN
11. 000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	24.86	11	JN
12. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	25.23	11	JN
13.	unknown hydrocarbon	25.83	7	J
14. 000091-20-3	Naphthalene	26.17	10	JN
15. 002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-	27.80	7	JN

EPA SAMPLE NO.

Lab Name:	cas\roct	1		Contract:	searb		
Lab Code:	10145		Case No.: <u>r3-16744</u>	SAS No	o.:	SDG No.: 638680)
Matrix: (soil/	water)	WATER		La	b Sample ID	: <u>638692 1.0</u>	-
Sample wt/v	ol:	5.0	(g/ml) <u>ML</u>	La	b File ID:	A9600.D	_
Level: (low/i	med)	LOW		Da	te Received	: 05/05/03	_
% Moisture:	not dec.		·····	Da	te Analyzed	: 05/13/03	_
GC Column:	db-624	L ID: 0	0.32 (mm)	Dil	ution Factor	: <u>1.0</u>	_
Soil Extract '	Volume		(uL)	So	il Aliquot Vo	lume:	(uL

	CONCENTRATION ONLYS.					
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	_	Q	
74-87-3	Chloromethane			10	U	
75-01-4	Vinyl chloride			10	U	
74-83-9	Bromomethane			10	U	
75-00-3	Chloroethane	1 .		10	U	
75-35-4	1,1-Dichloroethe	ne		10	U	
67-64-1	Acetone	1		10	U	
75-15-0	Carbon disulfide			10	U	
75-09-2	Methylene chlori	de		10	U	
156-60-5	trans-1,2-Dichlor	roethene		10	U	
75-34-3	1,1-Dichloroetha	ne		10	U	
78-93-3	2-Butanone			10	U	
156-59-2	cis-1,2-Dichloroe	ethen e		10	U	
67-66-3	Chloroform			10	U	
107-06-2	1,2-Dichloroetha	ne		10	Ū	
71-55-6	1,1,1-Trichloroet	hane	-	10	U	
56-23-5	Carbon tetrachlo	ride		10	U	
71-43-2	Benzene			10	U	
79-01-6	Trichloroethene			10	U	
78-87-5	1,2-Dichloroprop	ane		10	U	
75-27-4	Bromodichlorom		10	U		
10061-01-5	cis-1,3-Dichlorop	propen e		10	J	
10061-02-6	trans-1,3-Dichlor	opropene		10	U	
79-00-5	1,1,2-Trichloroet	hane		10	U	
124-48-1	Dibromochlorom	ethane		10	J	
75-25-2	Bromoform	:		10	U	
108-10-1	4-Methyl-2-penta	none		10	U	
108-88-3	Toluene			10	U	
127-18-4	Tetrachloroethen	ne		10	J	
591-78-6	2-Hexanone		10	J		
108-90-7	Chlorobenzene		10	U		
100-41-4	Ethylbenzene		10	J		
108-38-3/106-42-3	(m+p)Xylene			10	U	
95-47-6	o-Xylene	:		10	J	
100-42-5	Styrene			10	U	
79-34-5	1,1,2,2-Tetrachlo	roethane		10	J	

Lab Name:	cas\roch	1			Contrac	at:	searb	[DLAM.	
Lab Code:	10145	Cas	e No.: <u>r3-</u>	16744	SAS	No.	:	SDG	No.: 6	38680	
Matrix: (soil/	water)	WATER	:		. 1	Lab	Sample I	D: <u>63</u>	8692 1.0	<u> </u>	
Sample wt/vo	ol:	5.0	(g/ml) ML		. 1	Lab	File ID:	<u>A</u>	9600.D		
Level: (low/r	ned)	LOW				Dat	e Receive	d: <u>0</u> 5	5/05/03		
% Moisture:	not dec.	<u> </u>	- -		ł	Dat	e Analyze	d: <u>0</u>	5/13/03		
GC Column:	db-624	ID: <u>0.3</u>	<u>2</u> (mm)		ı	Dilu	ition Facto	or: <u>1.</u>	0		
Soil Extract \	/olume		_ (uL)		;	Soil	Aliquot V	'olum	e:		(uL)
				CON	ICEŅTR	AT	ION UNIT	S:		1	
Number TICs	s found:	0	_	(ug/L	or ug/K	(g)	UG/L	·	_		
CAS NO.		COMPOU	ND				RT	EST.	CONC.		Q

Lab Name: cas\roch

EPA SAMPLE NO.

B19-S

Lab Code: 10145 Case No.: r3-16744 SAS No.: SDG No.: 638680

Matrix: (soil/water) SOIL Lab Sample ID: 638693 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: A9589.D

Level: (low/med) MED Date Received: 05/05/03

 % Moisture: not dec.
 19.4
 Date Analyzed: 05/12/03

 GC Column: db-624
 ID: 0.32 (mm)
 Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Contract: searb

CAS NO.	COMPOUND (ug/L or ug/K	g) <u>UG/KG</u>	Q
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl chloride	1600	Ū
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-35-4	1,1-Dichloroethene	1600	U
67-64-1	Acetone	1600	U
75-15-0	Carbon disulfide	1600	Ū
75-09-2	Methylene chloride	1600	U
156-60-5	trans-1,2-Dichloroethene	1600	U
75-34-3	1,1-Dichloroethane	1600	U
78-93-3	2-Butanone	1600	U
156-59-2	cis-1,2-Dichloroethene	1600	U
67-66-3	Chloroform	1600	· U
107-06-2	1,2-Dichloroethane	1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
56-23-5	Carbon tetrachloride	1600	U
71-43-2	Benzene	1600	U
79-01-6	Trichloroethene	1900	
78-87-5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
10061-02-6	trans-1,3-Dichloropropene	1600	U
79-00-5	1,1,2-Trichloroethane	1600	Ū
124-48-1	Dibromochloromethane	1600	Ū
75-25-2	Bromoform	1600	U
108-10-1	4-Methyl-2-pentanone	1600	Ū
108-88-3	Toluene	1600	Ū
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
108-90-7	Chlorobenzene	1600	U
100-41-4	Ethylbenzene Ethylbenzene	480	J
108-38-3/106-42-3	(m+p)Xylene	1600	U
95-47-6	o-Xylene	1600	U
100-42-5	Styrene	1600	Ū
79-34-5	1,1,2,2-Tetrachloroethane	1600	Ū

EPA SAMPLE NO.

Lab Name:	cas\roct	<u> </u>		Contract: searb	B19-5	
Lab Code:	10145		Case No.: <u>r3-16744</u>	SAS No.:	SDG No.: 638680	_
Matrix: (soil/v	vater)	SOIL		Lab Sample II	D: <u>638693 125.0</u>	
Sample wt/vo	ol:	4.0	(g/ml) <u>G</u>	Lab File ID:	A9589.D	
Level: (low/r	ned)	MED		Date Received	d: <u>05/05/03</u>	
% Moisture: 1	not dec.	19.4		Date Analyzed	1: 05/12/03	
GC Column:	db-624	ID:	0.32 (mm)	Dilution Facto	r: <u>1.0</u>	
Soil Extract \	/olume _	10000	(uL)	Soil Aliquot Vo	olume: <u>100</u>	(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15

	T			
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	19.97	30000	J
2. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.77	17000	JN
3. 001678-93-9	Cyclohexane, butyl-	21.26	23000	JN
4.	unknown hydrocarbon	22.31	38000	J
5. 001120-21-4	Undecane	22.40	25000	JN
6.	unknown cyclic hydrocarbon	22.48	13000	J
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.61	31000	JN
8.	unknown hydrocarbon	22.85	32000	J
9. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	22.99	16000	JN
10.	unknown hydrocarbon	23.48	14000	J
11.	unknown hydrocarbon	23.63	31000	J
12.	unknown cyclic alkane	23.72	16000	J
13.	unknown hydrocarbon	24.08	26000	J
14.	unknown hydrocarbon	25.23	16000	J
15. 000091-20-3	Naphthalene	26.18	12000	JN

EPA	SAMPL	E NO.
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Lab Name:	cas\rocl	h			Contract:	sear-brown		
Lab Code:	10145		Case No.:	r3-16744	SAS No	.: ;	SDG No.: 6386	80
Matrix: (soil/v	water)	SOIL			Lat	Sample ID	: 638695 1.0	_
Sample wt/vo	ol:	5.0	(g/ml)	<u>G</u>	Lat	File ID:	A9574.D	_
Level: (low/n	ned)	LOW	<u></u>		Dat	te Received	: 05/05/03	_
% Moisture: r	not dec.	15			Dat	te Analyzed:	: 05/09/03	
GC Column:	db-624	1D:	<u>0.32</u> (m	ım)	Dilu	ution Factor:	: 1.0	_
Soil Extract V	/olume		(uL)		Soi	I Aliquot Vo	lume:	(uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	42	
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	C
78-93-3	2-Butanone	4	J
156-59-2	cis-1,2-Dichloroethene	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	Ü
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzen e	12	U
108-38-3/106-42-3	(m+p)Xylene	12	Ū
100-42-5	Styrene	12	υ
79-34-5	1,1,2,2-Tetrachloroethane	12	Ü
95-47-6	o-Xylene	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
56-23-5	Carbon tetrachloride	12	Ü
78-87-5	1,2-Dichloropropane	12	U

EPA SAMPLE NO.

B31-S Contract: sear-brown Lab Name: cas\roch Lab Code: 10145 Case No.: r3-16744 SAS No.: SDG No.: 638680 Lab Sample ID: 638695 1.0 Matrix: (soil/water) SOIL A9574.D 5.0 Lab File ID: ___ (g/ml) <u>G</u> Sample wt/vol: Date Received: 05/05/03 Level: (low/med) LOW Date Analyzed: 05/09/03 % Moisture: not dec. 15

GC Column: db-624 ID: 0.32 (mm)
Soil Extract Volume 1 (uL)

Dilution Factor: 1.0

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Number TICs found: ____15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.91	39	JN
2. 002847-72-5	Decane, 4-methyl-	20.53	52	JN
3.	unknown alkane	20.99	28	J
4. 000493-02-7	Naphthalene, decahydro-, trans-	22.26	56	JN
5. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.56	57	JN
6.	unknown hydrocarbon	22.79	62	J
7. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	22.94	28	JN
8.	unknown hydrocarbon	23.42	43	J
9.	unknown hydrocarbon	23.59	81	J
10. 004292-92-6	Cyclohexane, pentyl-	23.67	29	JN
11.	unknown hydrocarbon	24.02	51	J
12. 006044-71-9	Dodecane, 6-methyl-	24.92	63	JN
13.	unknown cyclic hydrocarbon	25.12	52	J
14.	unknown alkane	26.13	72	J
15.	unknown hydrocarbon	27.76	30	J

EPA SAMPLE NO.

				B32-S
Lab Name:	cas\roch	Contract:	searb	

Lab Code: 10145 Case No.: <u>r3-16744</u> SAS No.: <u>SDG No.: 638680</u>

Matrix: (soil/water) SOIL Lab Sample ID: 638696 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: A9590.D

Level: (low/med) MED Date Received: 05/05/03

% Moisture: not dec. 20 Date Analyzed: 05/12/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl chloride	1600	U
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-35-4	1,1-Dichloroethene	1600	U
67-64-1	Acetone	1600	U
75-15-0	Carbon disulfide	1600	U
75-09-2	Methylene chloride	1600	U
156-60-5	trans-1,2-Dichloroethene	1600	U
75-34-3	1,1-Dichloroethane	1600	U
78-93-3	2-Butanone	1600	U
156-59-2	cis-1,2-Dichloroethene	1600	U
67-66-3	Chloroform	1600	U
107-06-2	1,2-Dichloroethane	1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
56-23-5	Carbon tetrachloride	1600	U
71-43-2	Benzene	1600	U
79-01-6	Trichloroethene	1600	υ
78-87-5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
10061-02-6	trans-1,3-Dichloropropene	1600	U
79-00-5	1,1,2-Trichloroethane	1600	U
124-48-1	Dibromochloromethane	1600	Ū
75-25-2	Bromoform	1600	U
108-10-1	4-Methyl-2-pentanone	1600	U
108-88-3	Toluene	1600	U
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
108-90-7	Chlorobenzene	1600	U
100-41-4	Ethylbenzene	500	J
108-38-3/106-42-3	(m+p)Xylene	1600	U
95-47-6	o-Xylene	1600	U
100-42-5	Styrene	1600	U
79-34-5	1,1,2,2-Tetrachloroethane	1600	U

EPA SAMPLE NO.

B32-S Lab Name: cas\roch Contract: searb 10145 Case No.: r3-16744 SAS No.: SDG No.: 638680 Lab Code: Lab Sample ID: 638696 125.0 Matrix: (soil/water) SOIL 4.0 (g/ml) G Lab File ID: A9590.D Sample wt/vol: Date Received: 05/05/03 Level: (low/med) MED Date Analyzed: 05/12/03 % Moisture: not dec. 20 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Number TICs found:

15

·				
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown cyclic hydrocarbon	19.51	16000	J
2.	unknown cyclic hydrocarbon	19.95	25000	J
3. 001678-93-9	Cyclohexane, butyl-	21.26	21000	JN
4. 000493-02-7	Naphthalene, decahydro-, trans-	22.31	32000	JN
5. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.61	41000	JN
6.	unknown cyclic hydrocarbon	22.85	24000	J
7. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	23.00	25000	JN
8.	unknown hydrocarbon	23.63	43000	J
9. 004292-92-6	Cyclohexane, pentyl-	23.73	22000	JN
10.	unknown hydrocarbon	24.08	38000	J
11. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	24.84	31000	JN
12. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	25.24	22000	JN
13.	unknown hydrocarbon	25.95	19000	J
14. 000091-20-3	Naphthalene	26.18	26000	JN
15.	unknown hydrocarbon	26.48	27000	J

EPA SAMPLE NO.

DUP-S

 Lab Name:
 cas\roch
 Contract:
 searb

 Lab Code:
 10145
 Case No.:
 r3-16744
 SAS No.:
 SDG No.:
 638680

 Matrix:
 (soil/water)
 SOIL
 Lab Sample ID:
 638697 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: A9591.D

Level: (low/med) MED Date Received: 05/05/03
% Moisture: not dec. 21.7 Date Analyzed: 05/12/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl chloride	1600	U
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-35-4	1,1-Dichloroethene	1600	U
67-64-1	Acetone	1600	U
75-15-0	Carbon disulfide	1600	U
75-09-2	Methylene chloride	1600	U
156-60-5	trans-1,2-Dichloroethene	1600	U
75-34-3	1,1-Dichloroethane	1600	U
78-93-3	2-Butanone	1600	U
156-59-2	cis-1,2-Dichloroethene	1600	U
67-66-3	Chloroform	1600	U
107-06-2	1,2-Dichloroethane	_1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
56-23-5	Carbon tetrachloride	1600	Ų
71-43-2	Benzene	1600	U
79-01 - 6	Trichloroethene	1600	U
78-87 - 5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
10061-02-6	trans-1,3-Dichloropropene	1600	Ų
79-00-5	1,1,2-Trichloroethane	1600	U
124-48-1	Dibromochloromethane	1600	Ų
75-25 -2	Bromoform	1600	U
108-10-1	4-Methyl-2-pentanone	1600	U
108-88-3	Toluen e	1600	U
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
108-90-7	Chlorobenzene	1600	U
100-41-4	Ethylbenzene	490	J
108-38-3/106-42-3	(m+p)Xylene	1600	U
95-47-6	o-Xylene	1600	U
100-42-5	Styrene	1600	U
79-34-5	1,1,2,2-Tetrachloroethane	1600	U

EPA SAMPLE NO.

DUP-S Lab Name: cas\roch Contract: searb SAS No.: _____ SDG No.: 638680 Lab Code: 10145 Case No.: r3-16744 Lab Sample ID: 638697 125.0 SOIL Matrix: (soil/water) 4.0 (g/ml) G Lab File ID: Sample wt/vol: A9591.D Date Received: 05/05/03 Level: (low/med) MED % Moisture: not dec. 21.7 Date Analyzed: 05/12/03 Dilution Factor: 1.0 GC Column: db-624 ID: 0.32 (mm) Soil Aliquot Volume: 100 Soil Extract Volume 10000 (uL) (uL)

CONCENTRATION UNITS:

UG/KG (ug/L or ug/Kg)

Number TICs found: 15

					
CA	S NO.	COMPOUND	RT	EST. CONC.	Q
1.		unknown cyclic hydrocarbon	19.95	24000	J
2.	001678-93-9	Cyclohexane, butyl-	21.26	20000	JN
3.	000493-02-7	Naphthalene, decahydro-, trans-	22.31	31000	JN
4.	001074-17-5	Benzene, 1-methyl-2-propyl-	22.61	40000	JN
5.		unknown cyclic hydrocarbon	22.84	23000	J
6.	000535-77-3	Benzene, 1-methyl-3-(1-methylet	22.99	23000	JN
7.		unknown hydrocarbon	23.64	42000	J
8.	004292-92-6	Cyclohexane, pentyl-	23.73	21000	JN
9.		unknown hydrocarbon	24.08	37000	J
10.	000095-93-2	Benzene, 1,2,4,5-tetramethyl-	24.83	31000	JN
11.	000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	25.24	21000	JN
12.		unknown aromatic	25.95	19000	J
13.	000091-20-3	Naphthalene	26.18	24000	JN
14.		unknown aromatic	26.48	27000	j
15.		unknown aromatic	27.81	15000	J

EPA SAMPLE NO.

Lab Name:	cas\roc	1		Contract:	sear-brown	
Lab Code:	10145		Case No.: r3-16744	SAS No	.: ;	SDG No.: 638680
Matrix: (soil/	water)	SOIL		Lat	Sample ID	: 638698 1.0
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	_ Lab	File ID:	A9575.D
Level: (low/i	med)	LOW		Dat	e Received	: 05/05/03
% Moisture:	not dec.	19.2		Dat	e Analyzed:	05/09/03
GC Column:	db-624	1D:	<u>0.32</u> (mm)	Dilu	ution Factor	1.0
Soil Extract	Volume		(uL)	Soi	l Aliquot Vo	lume: (uL

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG_	_	Q
74-87-3	Chloromethane			12	U
75-01-4	Vinyl chloride			12	U
75-00-3	Chloroethane			12	U
74-83-9	Bromomethane			12	U
67-64-1	Acetone			16	
75-09-2	Methylene chlorid	le		12	U
75-15-0	Carbon disulfide			12	U
78-93-3	2-Butanone			12	U
156-59-2	cis-1,2-Dichloroet	hen e		12	U
67-66-3	Chloroform			12	U
107-06-2	1,2-Dichloroethan	ie		12	U
71-55-6	1,1,1-Trichloroeth	ane		12	U
71-43-2	Benzene			12	U
79-01-6	Trichloroethene			12	U
75-27-4	Bromodichlorome	thane		12	· U
10061-01-5	cis-1,3-Dichloropr	opene		12	U
10061-02-6	trans-1,3-Dichloro	propene		12	U
79-00-5	1,1,2-Trichloroeth	ane		12	U
124-48-1	Dibromochlorome	ethane		12	U
75-25-2	Bromoform			12	U
108-10-1	4-Methyl-2-pentar	none		12	U
108-88-3	Toluene			12	U
591-78-6	2-Hexanone			12	U
127-18-4	Tetrachloroethen	e		12	U
108-90-7	Chlorobenzene			12	U
100-41-4	Ethylbenzene			12	U
108-38-3/106-42-3	(m+p)Xylene			12	U
100-42-5	Styrene			12	U
79-34-5	1,1,2,2-Tetrachlor	roethane		12	Ü
95-47-6	o-Xylene			12	U
156-60-5	trans-1,2-Dichloro	ethene		12	U
75-35-4	1,1-Dichloroethen	ie		12	U
75-34-3	1,1-Dichloroethan			12	U
56-23-5	Carbon tetrachlor			12	U
78-87-5	1,2-Dichloropropa			12	U

Lab Name:	cas\roch	.		Contrac	t:	sear-brown		B33-S	}
Lab Code:	10145		Case No.: r3-1	6744 SAS	No.	:s	DG No.:	638680	
Matrix: (soil/	water)	SOIL	_ _	. 1	_ab	Sample ID:	638698	1.0	
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	l	_ab	File ID:	A9575.	<u> </u>	
Level: (low/r	med)	LOW		Ţ	Date	e Received:	05/05/0	3	
% Moisture:	not dec.	19.2	_ 		Date	e Analyzed:	05/09/0	3	
GC Column:	db-624	ID:	0.32 (mm)	[Dilu	tion Factor:	1.0		
Soil Extract \	Volume _	1	(uL)	•	Soil	Aliquot Volu	ıme: <u>1</u>	1	(uL
				CONCENTR	ΑT	ION UNITS:			
Number TICs	s found:	4		(ug/L or ug/K	(g)	UG/KG			

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1,	unknown hydrocarbon	22.80	6	J
2.	unknown hydrocarbon	23.59	6	J
3. 000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	24.82	11	JN
4. 004912-92-9	1H-Indene, 2,3-dihydro-1,1-dimet	25.78	7	JN

EPA SAMPLE NO.

Lab Name: cas\roch Contract: searb B34-S

Lab Code: 10145 Case No.: <u>r3-16744</u> SAS No.: <u>SDG No.: 638680</u>

Matrix: (soil/water) SOIL Lab Sample ID: 638699 125.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: A9592.D

Level: (low/med) MED Date Received: 05/05/03

% Moisture: not dec. 20.3 Date Analyzed: 05/12/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl chloride	1600	U
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-35-4	1,1-Dichloroethene	1600	U
67-64-1	Acetone	1600	U
75-15-0	Carbon disulfide	1600	U
75-09-2	Methylene chloride	1600	U
156-60-5	trans-1,2-Dichloroethene	1600	U
75-34-3	1,1-Dichloroethane	1600	U
78-93-3	2-Butanone	1600	Ū
156-59-2	cis-1,2-Dichloroethene	1600	Ü
67-66-3	Chloroform	1600	U
107-06-2	1,2-Dichloroethane	1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
56-23-5	Carbon tetrachloride	1600	U
71-43-2	Benzene	1600	U
79-01-6	Trichloroethene	1600	U
78-87-5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
10061-02-6	trans-1,3-Dichloropropene	1600	U
79-00-5	1,1,2-Trichloroethane	1600	U
124-48-1	Dibromochloromethane	1600	U
75-25-2	Bromoform	1600	U
108-10-1	4-Methyl-2-pentanone	1600	U
108-88-3	Toluene	1600	U
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
108-90-7	Chlorobenzene	1600	U
100-41-4	Ethylbenzene	890	J
108-38-3/106-42-3	(m+p)Xylene	1600	C
95-47-6	o-Xylene	1600	U
100-42-5	Styrene	1600	٦
79-34-5	1,1,2,2-Tetrachloroethane	1600	Ü

EPA SAMPLE NO.

 Lab Name:
 cas\roch
 Contract:
 searb

 Lab Code:
 10145
 Case No.:
 r3-16744
 SAS No.:
 SDG No.:
 638680

Sample wt/vol: 4.0 (g/ml) G Lab File ID: A9592.D

Level: (low/med) MED Date Received: 05/05/03

% Moisture: not dec. 20.3 Date Analyzed: 05/12/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/KG

		T		<u> </u>
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.78	21000	JN
2. 000493-02-7	Naphthalene, decahydro-, trans-	22.30	27000	JN
3. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.61	36000	JN
4. 000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	22.84	30000	JN
5. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	22.99	20000	JN
6	unknown aromatic	23.28	19000	J
7.	unknown aromatic	23.48	19000	J
8.	unknown hydrocarbon	23.64	34000	J
9. 004292-92-6	Cyclohexane, pentyl-	23.73	18000	JN
10. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	23.95	17000	JN
11.	unknown hydrocarbon	24.08	33000	J
12. 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	24.83	32000	JN
13. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	25.24	18000	JN
14. 000091-20-3	Naphthalen e	26.18	20000	JN
15.	unknown hydrocarbon	26.48	19000	J

EPA SAMPLE NO.

Lab Name:	cas\roc	h		Contract:	sear-brown		
Lab Code:	10145		Case No.: r3-16744	SAS No.	: s	DG No.: 638680	<u> </u>
Matrix: (soil/	water)	SOIL		Lab	Sample ID:	638700 5.0	
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	Lab	File ID:	A9620.D	
Level: (low/i	med)	LOW		Dat	e Received:	05/05/03	
% Moisture:	not dec.	22.5		Dat	e Analyzed:	05/14/03	
GC Column:	db-62	4 ID:	<u>0.32</u> (mm)	Dilu	tion Factor:	1.0	
Soil Extract \	Volume		(uL)	Soil	Aliquot Volu	ıme:	(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	65	U
75-01-4	Vinyl chloride	65	U
75-00-3	Chloroethane	65	U
74-83-9	Bromomethane	65	υ
67-64-1	Acetone	65	U
75-09-2	Methylene chloride	65	U
75-15-0	Carbon disulfide	65	U
78-93-3	2-Butanone	65	U
156-59-2	cis-1,2-Dichloroethene	65	U
67-66-3	Chloroform	65	U
107-06-2	1,2-Dichloroethane	65	U
71-55-6	1,1,1-Trichloroethane	65	U
71-43-2	Benzene	65	U
79-01-6	Trichloroethene	65	U
75-27-4	Bromodichloromethane	65	U
10061-01-5	cis-1,3-Dichloropropene	65	U
10061-02-6	trans-1,3-Dichloropropene	65	U
79-00-5	1,1,2-Trichloroethane	65	U
124-48-1	Dibromochloromethane	65	U
75-25-2	Bromoform	65	UI
108-10-1	4-Methyl-2-pentanone	65	U
108-88-3	Toluene	65	U
591-78-6	2-Hexanone	65	U
127-18-4	Tetrachloroethene	65	U
108-90-7	Chlorobenzene	65	U
100-41-4	Ethylbenzene	65	U
108-38-3/106-42-3	(m+p)Xylene	65	U
100-42-5	Styrene	65	U
79-34-5	1,1,2,2-Tetrachloroethane	65	U
95-47-6	o-Xylene	65	U
156-60-5	trans-1,2-Dichloroethene	65	U
75-35-4	1,1-Dichloroethene	65	U
75-34-3	1,1-Dichloroethane	65	U
56-23-5	Carbon tetrachloride	65	U
78-87-5	1,2-Dichloropropane	65	U

EPA SAMPLE NO.

B22-S Lab Name: cas\roch Contract: sear-brown 10145 Case No.: r3-16744 SAS No.: _____ SDG No.: 638680 Lab Code: Lab Sample ID: 638700 5.0 Matrix: (soil/water) SOIL Sample wt/vol: 5.0 Lab File ID: A9620.D (g/ml) G Level: (low/med) LOW Date Received: 05/05/03 Date Analyzed: 05/14/03 % Moisture: not dec. 22.5 Dilution Factor: 1.0 GC Column: db-624 ID: 0.32 (mm) Soil Aliquot Volume: 1 Soil Extract Volume 1 (uL) (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Number TICs found: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001331-43-7	Cyclohexane, diethyl-	19.39	140	JN
2.	unknown cyclic	19.71	140	J
3.	unknown alkane	20.85	210	J
4.	unknown hydrocarbon	21.15	140	J
5.	unknown cyclic hydrocarbon	21.30	170	J
6.	unknown hydrocarbon	21.78	150	J
7. 000493-02-7	Naphthalene, decahydro-, trans-	22.26	590	JN
8.	unknown cyclic hydrocarbon	22.80	230	J
9.	unknown hydrocarbon	23.58	630	J
10. 002958-76-1	Naphthalene, decahydro-2-methy	24.03	480	JN
11.	unknown hydrocarbon	24.83	180	J
12.	unknown hydrocarbon	25.12	140	J
13.	unknown hydrocarbon	25.89	130	J
14. 015869-94-0	Octane, 3,6-dimethyl-	26.13	880	JN
15.	unknown branched alkane	27.92	280	J

EPA SAMPLE NO.

B23-S Contract: searb Lab Name: cas\roch

SAS No.: SDG No.: 638680 Lab Code: 10145 Case No.: r3-16744 Lab Sample ID: 638701 125.0 SOIL

Sample wt/vol: 4.0 Lab File ID: A9594.D (g/ml) G

Matrix: (soil/water)

Date Received: 05/05/03 Level: (low/med) MED

Date Analyzed: 05/12/03 % Moisture: not dec. 16.2 GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: 100 (uL) Soil Extract Volume 10000 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U
74-83-9	Bromomethane	1500	U_
75-00-3	Chloroethane	1500	U
75-35-4	1,1-Dichloroethene	1500	J
67-64-1	Acetone	1500	د
75-15-0	Carbon disulfide	1500	ט
75-09-2	Methylene chloride	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	2400	
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	84000 83000	E-
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	67000 67000	E
56-23-5	Carbon tetrachloride	1500	U
71-43-2	Benzen e	1500	U
79-01-6	Trichloroethene	92°,∽° 4 80000 -	Æ
78-87-5	1,2-Dichloropropane	1500	U
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U_
75-25 -2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
127-18-4	Tetrachloroethene	1500	U
591-78-6	2-Hexanone	1500	U_
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3	(m+p)Xylene	1500	U
95-47-6	o-Xylene	1500	U
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U

EPA SAMPLE NO.

6500

6000

JN

JN

Lab Name: cas\r	roch	Contract: searb	B23-S
Lab Code: 1014			SDG No.: 638680
—— Matrix: (soil/water)			ID: 638701 125.0
Sample wt/vol:	4.0 (g/ml) G	Lab File ID:	A9594.D
Level: (low/med)	MED	Date Receive	ed: 05/05/03
% Moisture: not de	c. <u>16.2</u>	Date Analyze	ed: 05/12/03
GC Column: db-	624 ID: <u>0.32</u> (mm)	Dilution Factor	or: <u>1.0</u>
Soil Extract Volum	e 10000 (uL)	Soil Aliquot V	/olume: 100 (uL
Number TICs found	d:	CONCENTRATION UNIT	
CAS NO	COMPOUND	RT	EST CONC O

000124-18-5

001120-21-4

Decane

Undecane

19.97

22.40

EPA SAMPLE NO.

COOLER BLANK

Lab Name:	cas\roc	h		Contract: sear-b	rown	
Lab Code:	10145		Case No.: <u>r3-16744</u>	SAS No.:	SDG No.: 638680	<u> </u>
Matrix: (soil/	water)	SOIL		Lab Samp	le ID: 638702 1.0	
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	Lab File IC): <u>A9621.D</u>	
Level: (low/r	ne d)	LOW		Date Rece	ived: 05/05/03	
% Moisture:	not dec.	0		Date Analy	/zed: <u>05/14/03</u>	
GC Column:	db-624	4_ ID:	<u>0.32</u> (mm)	Dilution Fa	ctor: 1.0	
Soil Extract \	/olume		(u L)	Soil Aliquo	t Volume:	(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	υ
67-64-1	Acetone	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	Ū
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	10	U.
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
95-47-6	o-Xylene	10	U
156-6 0-5	trans-1,2-Dichloroethene	10	Ū
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	Ū
56-23-5	Carbon tetrachloride	10	Ū
78-87-5	1,2-Dichloropropane	10	Ū

ATH E ORGANICS ANALY

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMP	LE NO.
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Lab Name:	cas\roct	1			Contract:	sear-bro	<u>wn</u>	COOL	ER BLA	INK
Lab Code:	10145		Case No.:	r3-16744	SAS No	.:	_ SD	G No.:	638680	<u> </u>
Matrix: (soil/v	water)	SOIL			Lat	Sample	ID: 6	38702 1	.0	
Sample wt/vo	ol:	5.0	(g/ml)) <u>G</u>	Lat	File ID:		\9621.D	<u></u>	
Level: (low/n	ned)	LOW			Dat	le Receiv	/ed: <u>(</u>	05/05/03		
% Moisture: r	not dec.	0			Dat	le Analyz	ed: 0	5/14/03		
GC Column:	db-624	ID:	0.32 (1	nm)	Dilu	ution Fac	tor: <u>1</u>	.0		
Soil Extract V	/olume	1	(uL)		Soi	l Aliquot	Volun	ne: <u>1</u>		(uL)
				CON	NCENTRAT	ION UN	TS:			
Number TICs	found:	0		(ug/	L or ug/Kg)	UG	KG_			
CAS NO.		COMP	OUND			RT	EST	. CONC		Q

EXTRACTABLE ORGANICS
METHOD NYSDOH 310-13
Reported: 06/09/03

Sear-Brown Group

Project Reference: BUELL #16059 Client Sample ID: BU-B27-S

Date Sampled: 05/03/03 Order #: 638685 Sample Matrix: SOIL/SEDIMENT

Date Received: 05/05/03 Submission #: R2316744 Percent Solid: 84.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 05/14/03 DATE ANALYZED : 05/20/03 ANALYTICAL DILUTION: 10.00		ï	Dry Weight
AS N-DODECANE FUEL OIL #2/DIESEL FUEL GASOLINE KEROSENE LUBE OIL	100000 100000 100000 100000	6600000 J 1200000 U 1200000 U 1200000 U 1200000 U	UG/KG UG/KG UG/KG UG/KG UG/KG

EXTRACTABLE ORGANICS
METHOD NYSDOH 310-13
Reported: 06/09/03

Sear-Brown Group

Project Reference: BUELL #16059 Client Sample ID: BU-B20-S

Date Sampled: 05/05/03 Order #: 638694 Sample Matrix: SOIL/SEDIMENT

Date Received: 05/05/03 Submission #: R2316744 Percent Solid: 85.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 05/14/03 DATE ANALYZED : 05/20/03 ANALYTICAL DILUTION: 20.00			Dry Weight
AS N-DODECANE FUEL OIL #2/DIESEL FUEL GASOLINE KEROSENE LUBE OIL	100000 100000 100000 100000	19000000 J 2400000 U 2400000 U 2400000 U 2400000 U	UG/KG UG/KG UG/KG UG/KG UG/KG

EXTRACTABLE ORGANICS
METHOD NYSDOH 310-13
Reported: 06/09/03

Sear-Brown Group

Project Reference: BUELL #16059 Client Sample ID: BU-B32-S

Date Sampled: 05/05/03 Order #: 638696 Sample Matrix: SOIL/SEDIMENT

Date Received: 05/05/03 Submission #: R2316744 Percent Solid: 80.0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 05/14/03 DATE ANALYZED : 05/20/03 ANALYTICAL DILUTION: 20.00		7	Dry Weight
AS N-DODECANE FUEL OIL #2/DIESEL FUEL GASOLINE KEROSENE LUBE OIL	100000 100000 100000 100000 100000	14000000 J 2500000 U 2500000 U 2500000 U 2500000 U	UG/KG UG/KG UG/KG UG/KG UG/KG

EXTRACTABLE ORGANICS METHOD NYSDOH 310-13

Reported: 06/09/03

Sear-Brown Group

Project Reference: BUELL #16059 Client Sample ID : BU-DUP-S

Date Sampled: 05/05/03 Order #: 638697
Date Received: 05/05/03 Submission #: R2316744 Sample Matrix: SOIL/SEDIMENT Percent Solid: 78.3

pate Received: 05/05/05 Bubmission #:	K2510/44	rercent sorid:	70.3
ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 05/14/03 DATE ANALYZED : 05/20/03 ANALYTICAL DILUTION: 10.00		-	Dry Weight
AS N-DODECANE FUEL OIL #2/DIESEL FUEL GASOLINE KEROSENE LUBE OIL	100000 100000 100000 100000	8400000 J 1300000 U 1300000 U 1300000 U 1300000 U	UG/KG UG/KG UG/KG UG/KG UG/KG

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
Facsimile (518) 251-4428



LETTER OF TRANSMITTAL

TO:	Peter Sn	nith		
COMPANY:	Sear Bro	wn Group		
FROM:	Judy Ha	Try T		
DATE:	03-10-04	!		
ENCLOSED:		or the Buell site ios. R2319595, R231965	57, R2319774, an	d R2419875
	Associate	ed qualified repor	t forms	
	Copy of	associated invoice	e (original se	nt to Dewitt)
COMMENTS:				
Ship via: US Exp	pressX UPS	US Priority	Fed Ex	Other

Data Validation Services

120 Cobble Creck Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

March 10, 2004

Peter Smith Sear Brown Group 85 Metro Park Rochester, NY 14623

RE: Data Usability Summary Report for Buell Automatics

CAS Sub. Nos. R2319595, R2319657, R2319774, and R2419875

Dear Mr. Smith:

Review has been completed for the data packages generated by Columbia Analytical Laboratories that pertain to samples collected 12/23/03 through 1/13/04 at the Buell Automatics site. Twenty soil (including one field duplicate) and two aqueous samples were processed for TCL volatiles by NYSDEC ASP CLP method 95-1. Six additional soil samples were processed by USEPA Method 8260B, in order to meet fast turnaround requirements. Trip and cooler blanks were also processed.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Data Completeness
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- Calibration Standards
- * Instrument IDLs

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

pg. 2/3

In summary, sample analyte values/reporting limits are usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to typical processing or matrix effects.

Copies of the laboratory case narratives and laboratory sample ID summaries are attached to this text, and should be reviewed in conjunction with this report. Included with this submission are red-ink edited sample report forms reflecting final results, showing edits and qualifications recommended within this report.

The following text discusses quality issues of concern. Sample IDs noted below are prefixed by "BU-".

General

Samples collected on 12/24/03, and submitted for fast turnaround, were received by the laboratory a few hours after collection at elevated temperature. The samples were in the process of cooling down and no qualification of their reported results is required. These samples were initially processed and reported as medium level analyses. The samples that show little or no detection at medium level were also analyzed by the low level procedure. These low level results are attached as the final sample results.

TCL Volatiles Analyses by ASP 95-1 and 8260B

Internal standard responses and retention times were acceptable. Instrumental tunes are compliant. Method, cooler, and trip blanks show no contamination.

NYSDEC ASP technical holding times from collection were met, with the exception of those for PIER-NSHAL-S and PIER-NMID-S, which were outside one day. Results for those two samples have been qualified as estimated ("UJ" and "J"), with a possible low bias.

Surrogate recoveries were within protocol requirements, with the exception of that for BFB in NEWALL-S, which was elevated at 116%, above 113%. Results for detected analytes in that sample are therefore qualified as estimated.

Sample matrix spikes were performed on soil samples WWALL-S, GP1-S3BOTT-S, and GP5-12-12.6'-S, and aqueous sample RW-1-W. Accuracy and precision were acceptable, with the exception of low recoveries for trichloroethene (both at 68%, below 71%) in the aqueous spikes. Therefore, the result for that compound in RW-1-W is qualified as estimated ("J").

Blind field duplicate correlation of soil sample NMWALL-S was acceptable. No aqueous correlation is available, but the project has historically shown good correlations.

Calibrations standards showed acceptable responses and linearity.

Results for analytes initially reported with the "E" flag are to be derived from the dilution analyses of the samples. All other analyte results can be derived from the lesser dilutions.

The detected value of trichloroethene in SWWALL-S is qualified as estimated ("J"), and may have a high bias due to potential carryover. This sample followed the initial analysis of a sample containing that analyte at concentrations above the linearity of the system.

The detection of chloroethane in GP2-S2-TOP-S is qualified as tentative in identification and estimated in value ("NJ") due to poor spectral quality.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

SDG#:697119	CASE No.:		OMPLETE:yes		DATE REV			NEEK DIG
SUBMISSION		DISKETT	E REQUESTED: Y_X_ N				DAIA,4	NEEK PKG
	Sear-Brown Group	DATE: 12			PROTOCO			
	Karen Bunker		Y SEAL: PRESENT/ABSENT:		SHIPPING			
	BUELL #16059 IRM	CHAIN O	F CUSTODY: PRESENT/ABSEN	Τ:	SUMMARY			
	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE	DATE	рН	%	REMARKS
J CAG COD "	02.2	1 1		SAMPLED	RECEIVED	(SOLIDS)	SOLIDS	AMPLE CONDITION
697119	BU-NWWALL-BOTT-S	SOIL	95-1, TIC'S, DWPS,	12/26/03	12/27/03			
697121	BU-NWWALL-SHAL-S	SOIL	95-1, TIC'S, DWPS,	12/26/03	12/27/03			
697123	BU-PIER-NSHAL-S	SOIL	95-1, TIC'S, DWPS,	12/26/03	12/27/03			
697126	BU-PIER-NMID-S	SOIL	95-1, TIC'S, DWPS,	12/26/03	12/27/03			
697127	BU-NWALL-S	SOIL	95-1, TIC'S, DWPS,	12/26/03	12/27/03			
697128	BU-NEWALL-S	SOIL	95-1, TIC'S, DWPS,	12/26/03	12/27/03			
697129	BU-EXCDUP-S	SOIL	95-1, TIC'S, DWPS,	12/26/03	12/27/03			
698901	BU-SWALL-S	SOIL	95-1, TIC'S, DWPS,	12/23/03	12/24/03			
698902	BU-SEWALL-S	SOIL	95-1, TIC'S, DWPS,	12/23/03	12/24/03			
698903	BU-SEBOTT-S	SOIL	95-1, TIC'S, DWPS,	12/24/03	12/24/03			
698904	BU-SWWALL-S	SOIL	95-1, TIC'S, DWPS,	12/24/03	12/24/03			
698905	BU-WWALL-S	SOIL	95-1, TIC'S, DWPS, QC	12/24/03	12/24/03			
699602	BU-WWALL2-S	SOIL	95-1, TIC'S, DWPS,		12/31/03			
699603	BU-WBOTT2-S	SOIL	95-1, TIC'S, DWPS,	12/29/03	12/31/03			
699604	BU-RW1-BOTT-S	SOIL	95-1, TIC'S, DWPS,	12/30/03	12/31/03			
699004	B0-KW1-B011 0							
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SDG#:698895	CASENO	BATCH:C	OMDIETE: VOS		DATE REV	ICED:		
SUBMISSION		DICKETT	OMPLETE:yes E REQUESTED: Y_x N				IC(O2 4	eek package
1		DATE: 12			PROTOCO	:: rusn 12/2	20/U3, 4 W	еек раскаде
CLIENT: Sear CLIENT REP:			Y SEAL: PRESENT/ABSENT:		PROTOCO SHIPPING		aspo del	
1	BUELL IRM		F CUSTODY: PRESENT/ABSENT	r.				
				ستحريب والمستحد	SUMMARY			
CAS JOB#	CLIENT/EPA ID	MATRIX		DATE	DATE		%	REMARKS
	·					(SOLIDS)	SOLIDS	AMPLE CONDITION
	BU-GP2-S2TOP-S	SOIL	8260B, DWPS		12/24/03			
	BU-GP3-S1TOP-S	SOIL	8260B, DWPS		12/24/03			
	BU-GP3-S1MID-S	SOIL	8260B, DWPS	12/24/03				
	BU-GP3-S1BOTT-S	SOIL	8260B, DWPS	12/24/03				
	BU-GP3-S2BOTTS	SOIL	8260B, DWPS	12/24/03				
698900	BU-GP1-S3BOTT-S QC	SOIL	8260B, DWPS	12/24/03	12/24/03			
698906	TRIP BLANK	WATER	8260B, DWPS cmre	12/24/03	12/24/03			
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SDG#:700222	DATE REVISED:							
SUBMISSION	R2419774	DISKETTE REQUESTED: Y_X N		DATE DUE 4 WEEKS				
CLIENT:	Sear-Brown Group	DATE: 1/2/04			PROTOCOL: ASP-B			
	Karen Bunker	CUSTOD	Y SEAL: PRESENT/ABSENT:		SHIPPING	No.:		
	BUELL #16059		F CUSTODY: PRESENT/ABSENT	Γ:	SUMMARY		N	
	CLIENT/EPA ID	MATRIX		DATE		рН	%	REMARKS
0,10,000		,						AMPLE CONDITION
700222	BU-GP-5, 9-9.5'-S	SOIL	95,1, TIC'S, DWPS,	12/31/03		(002,00)	002.00	rum EL GONDITION
	BU-GP-5, 12-12.6'-S	SOIL	95,1, TIC'S, DWPS,	12/31/03				
	BU-GP-6, 10-10.5'-S	SOIL	95,1, TIC'S, DWPS,	12/31/03				
	BU-GP-8, 7.5-8'-S	SOIL.	95,1, TIC'S, DWPS,	12/31/03				
700230	BU-GP-10,19.8-20'-S	SOIL	95,1, TIC'S, DWPS,	12/31/03			<u> </u>	_
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SDG#:702133		BATCH C	OMPLETE:		DATE REV			
SUBMISSION			E REQUESTED: Y_X_ N		DATE DUE			
	Sear-Brown Group	DATE: 01			PROTOCO			1
CLIENT REP:	Karen Bunker		Y SEAL: PRESENT/ABSENT:		SHIPPING			
PROJECT:	BUELL #16059	CHAIN O	F CUSTODY: PRESENT/ABSENT	<u>[:</u>	SUMMARY	PKG: Y_	<u> </u>	
CAS JOB#	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE	DATE	рН	%	REMARKS
1		}		SAMPLED	RECEIVED	(SOLIDS)	SOLIDS	AMPLE CONDITION
702133	BU-RW-1-W	WATER	95-1 +TICS qc	1/13/04	1/14/04	<u>`</u>		
702134	BU-RW-2-W	WATER	95-1 +TICS	1/13/04	1/14/04			
702135	TRIP BLANK	WATER	95-1 +TICS	1/13/04	1/14/04			
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COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2319595 SDG#: 697119

Water samples were collected by Sear Brown over the period from 12/23-30/03 and received at CAS on 12/24-31/03. All samples were received unbroken, in good condition at a cooler temperature range of 0-1°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were no used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Fifteen (15) soils were analyzed using NYS ASP Method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were also performed.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable except for except for location BU-NEWALL-S (CAS Order # 697128). The BFB was out high (116% limits 59-113) due to matrix interference of hydrocarbons which caused distortion. The Internal standards and first and second surrogates were within QC limits. The sample was not reanalyzed since a medium level dilution would not have provided better results and a lower dilution was not an option due to the interferences. The Form 2B has the recovery flagged as "*".

All samples were run within holding time for ASP protocol of 10 days from VTSR except for locations:

Client ID	CAS Order #	Days outside Holding time
BU-NWWALL-BOTT-S	697119	1
BU-NWWALL-SHAL-S	697121	1
BU-PIER-NSHAL-S	697123	2
BU-PIER-NMID-S	697126	2

Site Specific QC was performed on location BU-WWALLS (CAS Order # 698905). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Locations BU-PIER-NSHAL-S and BU-SEBOTT-S (CAS Order #s 697123 and 698903 respectively) had hits above the calibration range of the instrument. The compounds have been flagged as "E". The samples were repeated at dilutions appropriate for the concentrations. Both sets of data are included in the package. The diluted samples are denoted with the suffix "DL". The hits in the diluted samples are flagged as "D".

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

Page 2 COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2319595 SDG#: 697119

No Cooler Blank was set up with this SDG due to a laboratory error.

No other problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry

Laboratory Manager

Date

COMPANY: Sear Brown
PROJECT: Buell Automatic
SUBMISSION #: R2319657 SDG#: 698895

Water samples were collected by Sear Brown on 12/24/03 and received at CAS on the same day. All samples were received within hours of sampling unbroken at a cooler temperature of 15°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Six (6) soils and one (1) Trip Blank were analyzed using SW-846 method 8260B for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample This method was utilized in order to comply with the Rush Turn Around Time required by the client for these samples as per client instruction.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 14 day holding time for the method.

Site Specific QC was performed on location BU-GP1-S3BOTT-S (CAS Order # 698900). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Most locations were initially run at Medium dilutions and reported for the rush TAT requested by the client. Several samples were later repeated at lower dilutions or undiluted, to achieve and report lower detection limits. Both sets of data are included in the package.

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for this analysis. The up to 20 of the largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. "D" flags indicate an additional dilution was analyzed.

The Trip Blank was free of contamination from Target Compounds and TIC's. All Method Blanks were free from Target Compound contamination.

No problems were encountered during the analysis of these samples.

COMPANY: Sear Brown PROJECT: Buell Automatic SUBMISSION #: R2319774 SDG#: 700222

Water samples were collected by Sear Brown on 12/31/03 and received at CAS on 1/2/04. Samples were received in good condition, unbroken at a cooler temperature of 0°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers. All soils are reported on a dry weight basis for all analyses. Soil samples were analyzed for Percent Solids which was used to calculate the dry weight for each location.

VOLATILE ORGANICS

Five (5) soils were analyzed using ASP method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 10 day holding time from VTSR for this method.

Site Specific QC was performed on location BU-GP5-12-12.6'-S (CAS Order # 700225). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Samples were diluted as appropriate to bring target compounds into the calibration range of the standards. Hits outside the range are flagged as "E", estimated. These samples are then reanalyzed at the proper dilution for the overrange compound. Both sets of data are included in the report. Additional sample dilutions are reported with the suffix "DL" and hits for the second dilution are flagged as "D".

Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Cooler Blank set up for the period 12/29/03-1/15/04 was free from contamination. Cooler Blank samples are required as per ASP Protocol.

No problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Laboratory Manager

COMPANY: Sear Brown PROJECT: Buell Automatic #16059 SUBMISSION #: R2419875 SDG#: 702133

Water samples were collected by Sear Brown on 1/13/04 and received at CAS on 1/14/04. Samples were received in good condition, unbroken at a cooler temperature of 5°C. The CAS CLP Batching Form is included as a Cross Reference between Client ID and CAS Submission/Order # and analyses requested. Custody seals were not used on the coolers.

VOLATILE ORGANICS

Two (2) water samples and one (1) Trip Blank were analyzed using ASP method 95-1 for the Target Compound List (TCL) of Volatile Organic compounds. Library Searches were run for each sample.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the 10 day holding time from VTSR for this method.

Site Specific QC was performed on location RW-1-W (CAS Order # 702133). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were within limits except for Trichloroethene which was low for both the MS and MSD (68% - limits 71-120). Both recoveries were flagged as "*". All Relative Percent Difference (RPD) values were within limits for all compounds. All Blank Spike recoveries were within acceptance limits.

Samples were diluted as appropriate to bring target compounds into the calibration range of the standards. Hits below the CRDL are flagged as "J", estimated.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for 95-1 analysis. The 15 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. No TIC's were found in these samples.

No Cooler Blank was set up due to a laboratory **erro**r. The Trip Blank and Laboratory Method Blanks were free of contamination.

No problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Laboratory Manager

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EPA SAMPLE NO.

Lab Name:	CAS/RO	OCH		Contract:	SEARB	_ WWWALL-BOTT	
Lab Code:	10145		Case No.: R3-19595	SAS No	o.: S	DG No.: 697119	_
Matrix: (soil/	water)	SOIL		Lal	b Sample ID:	697119 2.0	
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	Lal	b File ID:	B3438.D	
Level: (low/ı	med)	LOW		Da	te Received:	12/27/03	
% Moisture:	not dec.	16.2		Da	te Analyzed:	01/07/04	
GC Column:	DB-62	4_ ID:	0.32 (mm)	Dil	ution Factor:	1.02.0	
Soil Extract \	Volume		(uL)	So	il Aliquot Volu	ıme: (ı	uL)

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	<u></u>	Q
74-87-3	Chloromethane			24	U
75-01-4	Vinyl chloride			11	J
75-00-3	Chloroethane			24	U
74-83-9	Bromomethane			24	υ
67-64-1	Acetone			53	
75-09-2	Methylene chlor	ide		24	U
75-15-0	Carbon disulfide			24	U
78-93-3	2-Butanone			24	כ
156-59-2	cis-1,2-Dichloro	ethene		5	J
67-66-3	Chloroform			24	J
107-06-2	1,2-Dichloroetha	ane		24	د
71-55 - 6	1,1,1-Trichloroe	thane		24	J
71-43-2	Benzene			3	7
79-01-6	Trichloroethene			9	7
75-27-4	Bromodichloron	nethane		24	כ
10061-01-5	cis-1,3-Dichloro	propene		24	U
10061-02-6	trans-1,3-Dichio	ropropene		24	U
79-00-5	1,1,2-Trichloroe	thane		24	U
124-48-1	Dibromochloron	nethane		24	Ų
75-25-2	Bromoform			24	U
108-10-1	4-Methyl-2-pent	anone		24	U
108-88-3	Toluene			24	U
591-78-6	2-Hexanone			24	U
127-18-4	Tetrachloroethe	ne		24	U
108-90-7	Chlorobenzene			24	U
100-41-4	Ethylbenzene			24	U
108-38-3/106-42-3	(m+p)Xylene			24	U
100-42-5	Styrene			24	U
79-34-5	1,1,2,2-Tetrachl	oroethane		24	U
95-47-6	o-Xylene			24	U
156-60-5	trans-1,2-Dichlo	roethene		24	C
75-35-4	1,1-Dichloroethe			24	U
75-34-3	1,1-Dichloroetha			10	J
56-23-5	Carbon tetrachle			24	U
78-87-5	1,2-Dichloropro			24	Ū

EPA SAMPLE NO.

WWALL-BOTT

Lab Name:	CAS/RC	CH		Contract: SEARE	<u> </u>		
Lab Code:	10145		Case No.: R3-19595	SAS No.:	_ SDG	No.: <u>697119</u>	
Matrix: (soil/	water)	SOIL		Lab Sampl	e ID: <u>69</u>	7119 2.0	
Sample wt/vo	ol:	5.0	(g/ml) <u>G</u>	Lab File ID	: <u>B</u> 3	8438.D	
Level: (low/r	ned)	LOW		Date Recei	ved: <u>12</u>	/27/03	
% Moisture:	not dec.	16.2		Date Analy	zed: <u>01</u>	/07/04	
GC Column:	DB-62	4_ ID:	0.32 (mm)	Dilution Fa	ctor: <u>4:1</u>	1.0	
Soil Extract \	/olume	1	(uL)	Soil Aliquot	Volume	e: <u>1</u>	(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.95	210	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	340	JN
3. 017302-32-8	Nonane, 3,7-dimethyl-	21.03	160	JN
4. 001678-93-9	Cyclohexane, butyl-	21.25	140	JN
5.	unknown hydrocarbon	22.30	310	J
6.	unknown hydrocarbon	22.83	400	J
7.	unknown alkane	22.97	140	J
8. 017301-32-5	Undecane, 4,7-dimethyl-	23.10	140	JN
9.	unknown hydrocarbon	23.46	260	J
10.	unknown hydrocarbon	23.63	500	J
11. 004292-92-6	Cyclohexane, pentyl-	23.71	270	JN
12.	unknown hydrocarbon	24.07	270	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	220	JN
14.	unknown hydrocarbon	25.16	210	J
15.	unknown alkane	26.16	190	J

EPA SAMPLE NO.

Lab Name:	CAS/RO	OCH		Contract:	SEARB	MAAAATT-2UA	LO
Lab Code:	10145		Case No.: R3-19595	SAS No	.: s	DG No.: 697119	
Matrix: (soil/	water)	SOIL		Lat	Sample ID:	697121 2.0	
Sample wt/v	ol:	5.0	(g/ml) G	Lat	File ID:	B3439.D	
Level: (low/ı	med)	LOW		Dat	te Received:	12/27/03	
% Moisture:	not dec.	22.6	·	Dat	te Analyzed:	01/07/04	
GC Column:	DB-62	4 ID:	<u>0.32</u> (mm)	Dile	ution Factor:	2.0	
Soil Extract \	Volume		(uL)	Soi	l Aliquot Volu	ıme:	(uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	26	U
75-01-4	Vinyl chloride	65	
75-00-3	Chloroethane	26	U
74-83-9	Bromomethane	26	U
67-64-1	Acetone	29	
75-09-2	Methylene chloride	26	U
75-15-0	Carbon disulfide	26	U
78-93-3	2-Butanone	26	U
156-59-2	cis-1,2-Dichloroethene	89	
67-66-3	Chloroform	26	υ
107-06-2	1,2-Dichloroethane	26	U
71-55-6	1,1,1-Trichloroethane	26	U
71-43-2	Benzene	3	J
79-01-6	Trichloroethene	26	C
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	J
124-48-1	Dibromochloromethane	26	U
75-25-2	Bromoform	26	C
108-10-1	4-Methyl-2-pentanone	26	U
108-88-3	Toluene	26	J
591-78-6	2-Hexanone	26	U
127-18-4	Tetrachloroethene	26	٦
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	Ü
108-38-3/106-42-3		26	U
100-42-5	Styrene	26	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U
95-47-6	o-Xylene	26	U
156-60-5	trans-1,2-Dichloroethene	26	U
75-35-4	1,1-Dichloroethene	26	U
75-34-3	1,1-Dichloroethane	22	J
56-23-5	Carbon tetrachloride	26	U
78-87-5	1,2-Dichloropropane	26	Ū

EPA SAMPLE NO.

NWWALL-SHALS Contract: SEARB Lab Name: CAS/ROCH Case No.: R3-19595 SAS No.: SDG No.: 697119 Lab Code: 10145 Matrix: (soil/water) SOIL Lab Sample ID: 697121 2.0 5.0 (g/ml) G Lab File ID: Sample wt/vol: B3439.D Level: (low/med) LOW Date Received: 12/27/03 Date Analyzed: 01/07/04 % Moisture: not dec. 22.6 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.94	190	JN
2. 002847-72-5	Decane, 4-methyl-	20.56	280	JN
3.	unknown alkane	21.03	130	J
4. 001678-93-9	Cyclohexane, butyl-	21.24	170	JN
5.	unknown hydrocarbon	22.30	250	J
6.	unknown hydrocarbon	22.60	150	J
7. 000506-51-4	1-Tetracosanol	22.83	340_	JN
8.	unknown hydrocarbon	23.43	220	J
9	unknown hydrocarbon	23.63	490	J
10.	unknown hydrocarbon	24.06	220	J
11.	unknown hydrocarbon	24.57	130	J
12. 000767-58-8	Indan, 1-methyl-	24.87	170	JN
13. 006044-71-9	Dodecane, 6-methyl-	24.96	260	JN
14.	unknown hydrocarbon	25.15	210	J
15. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	250	JN

EPA SAMPLE NO.

NSHAL-S

Lab Name: CAS\ROCH Contract: SEARB Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119 Matrix: (soil/water) SOIL Lab Sample ID: 697123 125.0 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3453.D Date Received: 12/27/03 Level: (low/med) MED % Moisture: not dec. 15.4 Date Analyzed: 01/08/04 Dilution Factor: ユヤロミン GC Column: DB-624 ID: 0.32 (mm) Soil Aliquot Volume: 100 Soil Extract Volume 10000 (uL) (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	UJ
75-01-4	Vinyl chloride	1500	Uſ
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1700	
67-66-3	Chloroform	1500	U _
107-06-2	1,2-Dichloroethane	1500	υ
71-55-6	1,1,1-Trichloroethane	450	J
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene 146	000 100000	E
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	540	J
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	υ/
108-38-3/106-42-3	(m+p)Xylene	1500	U
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	1500	υ
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	U
56-23-5	Carbon tetrachloride	1500	U
78-87-5	1,2-Dichloropropane	1500	U

EPA SAMPLE NO.

NSHAL-S

Lab Name:	CAS\RC	CH			Contract:	SEARB	Nonal-s	
Lab Code:	10145		Case No.:	R3-19595	SAS No	.: s	DG No.: 697119	
Matrix: (soil/v	vater)	SOIL	<u>-</u> -		Lat	Sample ID:	697123 125.0	
Sample wt/vo	ol:	4.0	(g/ml)	G	Lai	File ID:	B3453.D	
Level: (low/n	ned)	MED			Da	te Received:	12/27/03	
% Moisture: r	not dec.	15.4			Dat	te Analyzed:	01/08/04	
GC Column:	DB-62	4_ ID:	<u>0.32</u> (n	nm)	Dile	ution Factor:	18 125.0	
Soil Extract V	/olume	10000	(uL)		Soi	l Aliquot Volu	ıme: 100	(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

	T			
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	19.96	4300	J
2. 002847-72-5	Decane, 4-methyl-	20.57	1200	JN
3.	unknown alkane	21.03	1100)
4. 001678-93-9	Cyclohexane, butyl-	21.25	1400	JN
5. 000493-02-7	Naphthalene, decahydro-, trans-	22.30	1900	JN
6. 001120-21-4	Undecane	22.40	2400	JN
7.	unknown hydrocarbon	22.84	2100	J
8.	unknown hydrocarbon	23.27	1100	J
9.	unknown hydrocarbon	23.63	2700	J
10. 004292-92-6	Cyclohexane, pentyl-	23.71	1700	JN
11.	unknown hydrocarbon	24.07	2600	J
12.	unknown hydrocarbon	25.21	1000	J
13.	unknown hydrocarbon	26.20	1400	J
14.	unknown hydrocarbon	26.45	1500	J

EPA SAMPLE NO.

NMID-S Lab Name: CAS\ROCH Contract: SEARB SAS No.: SDG No.: 697119 Lab Code: 10145 Case No.: R3-19595 SOIL Lab Sample ID: 697126 125.0 Matrix: (soil/water) Sample wt/vol: 4.0 Lab File ID: B3457.D (g/ml) G Level: (low/med) MED Date Received: 12/27/03

% Moisture: not dec. 17.4 Date Analyzed: 01/08/04

(mm)

GC Column: DB-624 ID: 0.32

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Dilution Factor: 1.0 125 0

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	UJ
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	2000	
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	1500	U
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene	390	J
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	1500	U
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	160	J
108-38-3/106-42-3	(m+p)Xylene	450	J
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	380	J
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	Ü
75-34-3	1,1-Dichloroethane	1500	Ū
56-23-5	Carbon tetrachloride	1500	Ū
78-87 - 5	1,2-Dichloropropane	1500	U

EPA SAMPLE NO.

NMID-S Lab Name: CAS\ROCH Contract: SEARB SAS No.: ____ SDG No.: 697119 Lab Code: 10145 Case No.: R3-19595 SOIL Lab Sample ID: 697126 125.0 Matrix: (soil/water) 4.0 (g/ml) G Lab File ID: B3457.D Sample wt/vol: Date Received: 12/27/03 Level: (low/med) MED Date Analyzed: 01/08/04 % Moisture: not dec. 17.4 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 1250 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.96	32000	JN
2. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.76	6700	JN
3. 001678-93-9	Cyclohexane, butyl-	21.23	9500	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.18	5600	JN
5.	unknown hydrocarbon	22.29	5600	J
6. 001120-21-4	Undecane	22.39	18000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.59	8700	JN
8.	unknown hydrocarbon	22.83	9900	J
9.	unknown hydrocarbon	23.26	6900	J
10.	unknown hydrocarbon	23.45	6100	J
11.	unknown hydrocarbon	23.62	10000	J
12. 004292-92-6	Cyclohexane, pentyl-	23.70	6600	JN
13.	unknown hydrocarbon	24.06	9700	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.81	6200	JN
15.	unknown hydrocarbon	26.45	5800	J

EPA SAMPLE NO.

NWALL-S Lab Name: CAS/ROCH Contract: SEARB 10145 SAS No.: SDG No.: 697119 Case No.: R3-19595 Lab Code: SOIL Lab Sample ID: 697127 2.0 Matrix: (soil/water) 5.0 Sample wt/vol: (g/ml) G Lab File ID: B3413.D Level: (low/med) LOW Date Received: 12/27/03 % Moisture: not dec. 22.6 Date Analyzed: 01/06/04 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	26	U
75-01-4	Vinyl chloride	26.	U
75-00-3	Chloroethane	26	U
74-83-9	Bromomethane	26	U
67-64-1	Acetone	79	
75-09-2	Methylene chloride	26	U
75-15-0	Carbon disulfide	26	U
78-93-3	2-Butanone	26	U
156-59-2	cis-1,2-Dichloroethene	26	U
67-66-3	Chloroform	26	U
107-06-2	1,2-Dichloroethane	26	U
71-55-6	1,1,1-Trichloroethane	26	U
71-43-2	Benzene	26	U
79-01-6	Trichloroethene	26	U
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	U
124-48-1	Dibromochloromethane	26	U
75-25-2	Bromoform	26	U
108-10-1	4-Methyl-2-pentanone	26	U
108-88-3	Toluene	26	U
591-78-6	2-Hexanone	26	U
127-18-4	Tetrachloroethene	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
108-38-3/106-42-3	(m+p)Xylene	26	U
100-42-5	Styrene	26	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U
95-47-6	o-Xylene	26	U
156-60-5	trans-1,2-Dichloroethene	26	U
75-35-4	1,1-Dichloroethene	26	U
75-34-3	1,1-Dichloroethane	26	U
56-23-5	Carbon tetrachloride	26	U
78-87 - 5	1,2-Dichloropropane	26	Ü

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: CAS/ROCH Contract: SEARB NWALL-S

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3413.D

Level: (low/med) LOW Date Received: 12/27/03

 % Moisture: not dec.
 22.6
 Date Analyzed: 01/06/04

 GC Column:
 DB-624
 ID: 0.32 (mm)
 Dilution Factor: 1.0 2 . 0

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.8 2.5

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/KG

					_
CAS	NO.	COMPOUND	RT	EST. CONC.	Q
1.		unknown cyclic hydrocarbon	19.96	100	J
2.	002847-72-5	Decane, 4-methyl-	20.58	140	JN
3.	001678-93-9	Cyclohexane, butyl-	21.26	90	JN
4.		unknown hydrocarbon	22.31	150	J
5.		unknown cyclic hydrocarbon	22.48	120	J
6.		unknown hydrocarbon	22.61	210	J
7.		unknown hydrocarbon	22.84	240	J
8.	000527-84-4	Benzene, 1-methyl-2-(1-methylet	22.99	110	JN
9.		unknown hydrocarbon	23.47	130	J
10.		unknown hydrocarbon	23.65	260	J
11.		unknown hydrocarbon	24.07	190	J
12.		unknown hydrocarbon	24.82	91	J
13.	006044-71-9	Dodecane, 6-methyl-	24.97	210	JN
14.		unknown hydrocarbon	25.17	140	J
15.	005911-04-6	Nonane, 3-methyl-	26.16	180	JN

EPA SAMPLE NO.

NEWALL-S

Lab Name:	CAS/RC	OCH		Contract: 5	SEARB	WEVVALE-G	
Lab Code:	10145		Case No.: R3-19595	SAS No.:	SD	G No.: <u>697119</u>	
Matrix: (soil/	water)	SOIL	_ 	Lab	Sample ID: 6	97128 5.0	
Sample wt/vo	ol:	5.0	(g/ml) <u>G</u>	Lab I	File ID: E	33414.D	
Level: (low/r	ned)	LOW		Date	Received: 1	2/27/03	
% Moisture: ı	not dec.	18.9		Date	Analyzed: 0	1/06/04	
GC Column:	DB-62	4 ID:	<u>0.32</u> (mm)	Diluti	ion Factor: 1	X50_	
Soil Extract \	/olume		(uL)	Soil A	Aliquot Volum	ne:	(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		62	U
75-01-4	Vinyl chloride		62	υ
75-00-3	Chloroethane		62	U
74-83-9	Bromomethane		62	U
67-64-1	Acetone		84	J
75-09-2	Methylene chlorid	de	62	υ
75-15-0	Carbon disulfide		62	U
78-93-3	2-Butanone		8	J
156-59-2	cis-1,2-Dichloroe	thene	17	J
67-66-3	Chloroform		62	U
107-06-2	1,2-Dichloroetha	ne	62	U
71-55-6	1,1,1-Trichloroet	hane	62	U
71-43-2	Benzene		62	U
79-01-6	Trichloroethene		240	J 3
75-27-4	Bromodichlorom	ethane	62	U
10061-01-5	cis-1,3-Dichlorop	ropene	62	U
10061-02-6	trans-1,3-Dichlor	opropene	62	U
79-00-5	1,1,2-Trichloroetl		62	U
124-48-1	Dibromochlorom	ethane	62	U
75-25-2	Bromoform		62	U
108-10-1	4-Methyl-2-penta	none	62	U
108-88-3	Toluene		62	U
591-78-6	2-Hexanone		62	U
127-18-4	Tetrachloroethen	е	62	U
108-90-7	Chlorobenzene		62	U
100-41-4	Ethylbenzene		44	J
108-38-3/106-42-3	(m+p)Xylene		40	J
100-42-5	Styrene		62	U
79-34-5	1,1,2,2-Tetrachlo	roethane	62	U
95-47-6	o-Xylene		69	7
156-60-5	trans-1,2-Dichlor	oethene	62	U
75-35-4	1,1-Dichloroethe	ne	62	U
75-34-3	1,1-Dichloroetha	ne	62	υ
56-23-5	Carbon tetrachlo	ride	62	U
78-87-5	1,2-Dichloroprop	ane	62	υ

EPA SAMPLE NO.

Lab Name:	CAS/ROCH		Contract:	SEARB		NE	WALL-S	
Lab Code:	10145	Case No.: R3-19595	SAS No).:	SDG	No.:	697119	

Matrix: (soil/water) SOIL Lab Sample ID: 697128 5.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3414.D

 Level: (low/med)
 LOW
 Date Received: 12/27/03

 % Moisture: not dec.
 18.9
 Date Analyzed: 01/06/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1/0 5.0

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown alkane	18.90	2600	J
2. 017301-94-9	Nonane, 4-methyl-	19.02	3000	JN
3. 004291-79-6	Cyclohexane, 1-methyl-2-propyl-	19.98	3400	JN
4. 002847-72-5	Decane, 4-methyl-	20.58	4200	JN
5. 000108-67-8	Benzene, 1,3,5-trimethyl-	20.78	4200	JN
6.	unknown alkane	21.05	2500	J
7. 001678-93-9	Cyclohexane, butyl-	21.27	5900	JN
8.	unknown alkane	21.42	3100	J
9.	unknown hydrocarbon	22.32	4200	J_
10.	unknown hydrocarbon	22.62	4400	J
11	unknown hydrocarbon	22.85	6600	J
12.	unknown hydrocarbon	22.99	3000	J
13.	unknown hydrocarbon	23.48	3500	J
14.	unknown hydrocarbon	23.65	4800	J
15.	unknown hydrocarbon	24.08	2900	J

EPA SAMPLE NO.

EXCDUP-S

Lab Name: CAS/ROCH Contract: SEARB SAS No.: SDG No.: 697119 Case No.: R3-19595 Lab Code: 10145 Lab Sample ID: 697129 2.0 Matrix: (soil/water) SOIL 5.0 Sample wt/vol: (g/ml) G Lab File ID: B3415.D Level: (low/med) LOW Date Received: 12/27/03 % Moisture: not dec. 27 Date Analyzed: 01/06/04 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0 Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND (ug/L o	r ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	27	U
75-01-4	Vinyl chloride	27	U
75-00-3	Chloroethane	27	U
74-83-9	Bromomethane	27	U
67-64-1	Acetone	34	
75-09-2	Methylene chloride	27	U
75-15-0	Carbon disulfide	27	U
78-93-3	2-Butanone	4	J
156-59-2	cis-1,2-Dichloroethene	27	U
67-66-3	Chloroform	27	U
107-06-2	1,2-Dichloroethane	27	U
71-55-6	1,1,1-Trichloroethane	27	U
71-43-2	Benzene	27	U
79-01-6	Trichloroethene	27	U
75-27-4	Bromodichloromethane	27	υ
10061-01-5	cis-1,3-Dichloropropene	27	U
10061-02-6	trans-1,3-Dichloropropene	27	C
79-00-5	1,1,2-Trichloroethane	27	U
124-48-1	Dibromochloromethane	27	U
75-25-2	Bromoform	27	U
108-10-1	4-Methyl-2-pentanone	27	U
108-88-3	Toluene	27	U
591-78-6	2-Hexanone	27	U
127-18-4	Tetrachloroethene	27	U
108-90-7	Chlorobenzene	27	U
100-41-4	Ethylbenzene	27	U
108-38-3/106-42-3	(m+p)Xylene	27	U
100-42-5	Styrene	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
95-47-6	o-Xylene	27	U
156-60-5	trans-1,2-Dichloroethene	27	U
75-35-4	1,1-Dichloroethene	27	U
75-34-3	1,1-Dichloroethane	27	U
56-23-5	Carbon tetrachloride	27	U
78-87-5	1,2-Dichloropropane	27	U

EPA SAMPLE NO.

Lab Name:	CAS/RC	СН		Contract: SE	EARB	EXCOUPS	
Lab Code:	10145	Cas	e No.: <u>R3-19595</u>	SAS No.:	s	DG No.: <u>697119</u>	
Matrix: (soil/w	vater)	SOIL		Lab Sa	ample ID:	697129 2.0	
Sample wt/vo	ol:	5.0	(g/ml) G	Lab Fi	ile ID:	B3415.D	
Level: (low/n	ned)	LOW		Date F	Received:	12/27/03	
% Moisture: r	not dec.	27		Date A	Analyzed:	01/06/04	
GC Column:	DB-62	4 ID: <u>0.3</u>	2_ (mm)	Dilutio	n Factor:	11020	
Soil Extract V	olume _	1	_ (uL)	Soil Al	liquot Volu	ıme: <u>1</u>	(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.96	110	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	140	JN
3. 001678-93-9	Cyclohexane, butyl-	21.26	110	JN
4. 006975-98-0	Decane, 2-methyl-	21.57	73	JN
5.	unknown hydrocarbon	22.31	130	J
6.	unknown hydrocarbon	22.61	99	J
7. 000506-51-4	1-Tetracosanol	22.85	200	JN
8. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	22.99	99	JN
9.	unknown hydrocarbon	23.47	130	J
10.	unknown hydrocarbon	23.65	250	J
11.	unknown hydrocarbon	24.07	200	J
12.	unknown hydrocarbon	24.81	170	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	220	JN
14.	unknown hydrocarbon	25.16	160	J
15. 062016-34-6	Octane, 2,3,7-trimethyl-	26.15	210	JN

EPA SAMPLE NO.

SWALLS Contract: SEARB Lab Name: CAS/ROCH Case No.: R3-19595 SAS No.: SDG No.: 697119 Lab Code: 10145 SOIL Lab Sample ID: 698901 1.0 Matrix: (soil/water) 5.0 (g/ml) G Lab File ID: B3383.D Sample wt/vol: Date Received: 12/24/03 Level: (low/med) LOW Date Analyzed: 01/02/04 % Moisture: not dec. 17.5 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume _____ (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
74-83-9	Bromomethane	12	U
67-64-1	Acetone	21	
75-09-2	Methylene chloride	12	U
75-15-0	Carbon disulfide	12	U
78-93-3	2-Butanone	4	J
156-59-2	cis-1,2-Dichloroethene	11	J
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	24	
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
124-48-1	Dibromochloromethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	Ų
591-78-6	2-Hexanone	12	Ü
127-18-4	Tetrachloroethene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
108-38-3/106-42-3	(m+p)Xylene	2	J
100-42-5	Styrene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
95-47-6	o-Xylene	2	J
156-60-5	trans-1,2-Dichloroethene	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
78-87-5	1,2-Dichloropropane	12	U

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWALLS

Lab Name:	CAS/RC	OCH		Contract: SEARB	STALLS
Lab Code:	10145		Case No.: R3-19595	SAS No.: SE	OG No.: 697119
Matrix: (soil/	water)	SOIL		Lab Sample ID:	698901 1.0
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	Lab File ID:	B3383.D
Level: (low/r	med)	LOW		Date Received:	12/24/03
% Moisture:	not dec.	17.5		Date Analyzed:	01/02/04
GC Column:	DB-62	4 ID:	0.32 (mm)	Dilution Factor:	1.0
Soil Extract \	Volume	1	(uL)	Soil Aliquot Volur	ne: 1 <i>(</i> ul

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	860	JN
2. 002847-72-5	Decane, 4-methyl-	20.60	240	JN
3. 006975-98-0	Decane, 2-methyl-	21.59	180	JN
4. 001120-21-4	Undecane	22.43	1200	JN
5.	unknown hydrocarbon	22.64	180	J
6.	unknown hydrocarbon	22.87	310	J
7.	unknown hydrocarbon	23.49	200	J
8.	unknown hydrocarbon	23.67	290	J
9. 007045-71-8	Undecane, 2-methyl-	23.89	160	JN
10.	unknown hydrocarbon	24.09	320	J
11. 000112-40-3	Dodecane	24.68	810	JN
12.	unknown aromatic hydrocarbon	24.85	170	J
13. 006044-71-9	Dodecane, 6-methyl-	24.99	190	JN
14.	unknown hydrocarbon	26.18	180	J
15. 000629-50-5	Tridecane	26.65	170	JN

EPA SAMPLE NO.

SEWALLS

Lab Name: CAS\ROCH Contract: SEARB SAS No.: SDG No.: 697119 Lab Code: 10145 Case No.: R3-19595 Lab Sample ID: 698902 625.0 Matrix: (soil/water) SOIL 4.0 (g/ml) G Sample wt/vol: Lab File ID: B3363.D Date Received: 12/24/03 Level: (low/med) MED Date Analyzed: 12/31/03 % Moisture: not dec. 15.3 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 625 = Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		7400	U
75-01-4	Vinyl chloride		3000	J
75-00-3	Chloroethane		7400	U
74-83-9	Bromomethane		7400	U
67-64-1	Acetone		7400	U
75-09-2	Methylene chlor	ide	7400	U
75-15-0	Carbon disulfide	<u> </u>	7400	U
78-93-3	2-Butanone		7400	U
156-59-2	cis-1,2-Dichloro	ethene	150000	
67-66-3	Chloroform		7400	U
107-06-2	1,2-Dichloroetha	ane	7400	U
71-55-6	1,1,1-Trichloroe	thane	6500	J
71-43-2	Benzene		7400	U
79-01-6	Trichloroethene		110000	
75-27-4	Bromodichlorom	nethane	7400	U
10061-01-5	cis-1,3-Dichloro	propene	7400	C
10061-02-6	trans-1,3-Dichlo	ropropene	7400	C
79-00-5	1,1,2-Trichloroe	thane	7400	C
124-48-1	Dibromochlorom	nethane	7400	U
75-25-2	Bromoform		7400	U
108-10-1	4-Methyl-2-pent	anone	7400	U
108-88-3	Toluene		7400	Ü
591-78-6	2-Hexanone		7400	U
127-18-4	Tetrachloroethe	ne	7400	<u> </u>
108-90-7	Chlorobenzene		7400	U
100-41-4	Ethylbenzene		940	J
108-38-3/106-42-3	(m+p)Xylene		2300	J
100-42-5	Styrene		7400	U
79-34-5	1,1,2,2-Tetrachle	oroethane	7400	C
95-47-6	o-Xylene		2000	J
156-60-5	trans-1,2-Dichlo	roethene	7400	U
75-35-4	1,1-Dichloroethe	ene	7400	U
75-34-3	1,1-Dichloroetha	ane	880	7
56-23-5	Carbon tetrachic	oride	7400	U
78-87-5	1,2-Dichloroprop	pane	7400	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: CAS\ROCH Contract: SEARB

Matrix: (soil/water) SOIL Lab Sample ID: 698902 625.0

Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3363.D

 Level: (low/med)
 MED
 Date Received: 12/24/03

 % Moisture: not dec.
 15.3
 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 625. c

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/KG

· · · · · · · · · · · · · · · · · · ·			Γ	T
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	20.00	120000	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	20.81	32000	JN
3. 001678-93-9	Cyclohexane, butyl-	21.29	44000	JN
4. 000141- <u>9</u> 3-5	Benzene, 1,3-diethyl-	22.23	28000	JN
5.	unknown hydrocarbon	22.34	31000	J
6. 001120-21-4	Undecane	22.44	63000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.65	40000	JN
8.	unknown hydrocarbon	22.88	30000	J
9. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	23.03	24000	JN
10.	unknown hydrocarbon	23.31	34000	J
11.	unknown hydrocarbon	23.51	28000	J
12.	unknown hydrocarbon	23.67	48000	J
13	unknown hydrocarbon	24.11	48000	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.85	31000	JN
15	unknown hydrocarbon	26 49	22000	1 .1

EPA SAMPLE NO.

SEBOTTS

Lab Name: CAS\ROCH Contract: SEARB Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119 Matrix: (soil/water) SOIL Lab Sample ID: 698903 625.0 Sample wt/vol: 4.0 (g/ml) G Lab File ID: B3367.D Level: (low/med) MED Date Received: 12/24/03 % Moisture: not dec. 16 Date Analyzed: 12/31/03 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 625 0 Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	7400	U
75-01-4	Vinyl chloride	5100	J
75-00-3	Chloroethane	7400	U
74-83-9	Bromomethane	7400	U
67-64-1	Acetone	7400	U
75-09-2	Methylene chloride	7400	U
75-15-0	Carbon disulfide	7400	U
78-93-3	2-Butanone	7400	U
156-59-2	cis-1,2-Dichloroethene	190,000 180000	E
67-66-3	Chloroform	7400	υ
107-06-2	1,2-Dichloroethane	7400	U
71-55-6	1,1,1-Trichloroethane	7100	J
71-43-2	Benzene	7400	U
79-01-6	Trichloroethene	7400	U
75-27-4	Bromodichloromethane	7400	U
10061-01-5	cis-1,3-Dichloropropene	7400	U
10061-02-6	trans-1,3-Dichloropropene	7400	U
79-00-5	1,1,2-Trichloroethane	7400	U
124-48-1	Dibromochloromethane	7400	Ų
75-25-2	Bromoform	7400	U
108-10-1	4-Methyl-2-pentanone	7400	U
108-88-3	Toluene	840	J
591-78-6	2-Hexanone	7400	U
127-18-4	Tetrachloroethene	7400	U
108-90-7	Chlorobenzene	7400	U
100-41-4	Ethylbenzene	1900	J
108-38-3/106-42-3	(m+p)Xylene	4000	J
100-42-5	Styrene	7400	Ü
79-34-5	1,1,2,2-Tetrachloroethane	7400	U
95-47-6	o-Xylene	3500	J
156-60-5	trans-1,2-Dichloroethene	7400	U
75-35-4	1,1-Dichloroethene	890	J
75-34-3	1,1-Dichloroethane	1400	J
56-23-5	Carbon tetrachloride	7400	C
78-87-5	1,2-Dichloropropane	7400	C

EPA SAMPLE NO.

SEBOTTS Lab Name: CAS\ROCH Contract: SEARB SAS No.: ____ SDG No.: 697119 10145 Lab Code: Case No.: R3-19595

Lab Sample ID: 698903 625.0 SOIL Matrix: (soil/water)

4.0 (g/ml) G Lab File ID: B3367.D Sample wt/vol: Date Received: 12/24/03 Level: (low/med) MED

% Moisture: not dec. 16 Date Analyzed: 12/31/03 Dilution Factor: 1.0 625.0 GC Column: DB-624 ID: 0.32 (mm)

Soil Aliquot Volume: 100 Soil Extract Volume 10000 (uL) (uL)

CONCENTRATION UNITS:

UG/KG (ug/L or ug/Kg)

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	150000	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	20.80	47000	JN
3. 001678-93-9	Cyclohexane, butyl-	21.28	75000	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	22.22	40000	JN
5.	unknown hydrocarbon	22.33	39000	J
6. 001120-21-4	Undecane	22.43	59000	JN
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	22.64	47000	JN
8.	unknown hydrocarbon	22.87	35000	J
9. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	23.02	34000	JN
10.	unknown hydrocarbon	23.31	53000	J
11.	unknown hydrocarbon	23.50	37000	J
12.	unknown hydrocarbon	23.66	61000	J
13.	unknown hydrocarbon	24.10	62000	J
14. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.85	43000	JN
15. 000091-20-3	Naphthalene	26.20	38000	JN

EPA SAMPLE NO.

SWWALLS

Lab Name:	CAS\ROCH		Contract:	SEARB		
Lab Code:	10145	Case No.: R3-19595	SAS No	.: SD	G No.:	697119

 Matrix: (soil/water)
 SOIL
 Lab Sample ID:
 698904 125.0

 Sample wt/vol:
 4.0
 (g/ml) G
 Lab File ID:
 B3368.D

Level: (low/med) MED Date Received: 12/24/03

% Moisture: not dec. 19.2 Date Analyzed: 12/31/03

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10125.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1.500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1100	J
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	1500	U
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene	5300	ゴ
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	υ
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	1500	U
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3	(m+p)Xylene	1500	U
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	Ū
56-23-5	Carbon tetrachloride	1500	Ū
78-87-5	1,2-Dichloropropane	1500	U

EPA SAMPLE NO.

Lab Name: CAS\ROCH	Contract: SEARB
Lab Code: 10145 Case No.: R3-1959	5 SAS No.: SDG No.: 697119
Matrix: (soil/water) SOIL	Lab Sample ID: 698904 125.0
Sample wt/vol: 4.0 (g/ml) G	Lab File ID: B3368.D
Level: (low/med) MED	Date Received: 12/24/03
% Moisture: not dec. 19.2	Date Analyzed: 12/31/03
GC Column: <u>DB-624</u> ID: <u>0.32</u> (mm)	Dilution Factor: 10 125.0
Soil Extract Volume 10000 (uL)	Soil Aliquot Volume: 100 (uL)
:	NCENTRATION UNITS: /L or ug/Kg) <u>UG/KG</u>
CAS NO. COMPOUND	RT EST. CONC. Q

CA	S NO.	COMPOUND	RT	EST. CONC.	Q
1.	000124-18-5	Decane	19.98	2000	JN
2.	001120-21-4	Undecane	22.43	1700	JN
3.	000112-40-3	Dodecane	24.66	790	JN
4.	000091-20-3	Naphthalene	26.19	920	JN

EPA SAMPLE NO.

WWALLS

Lab Name:	CASIRO	CH		Contract:	SEARB	TTTTL	
Lab Code:	10145		Case No.: R3-19595	SAS No	.: s	DG No.: 697119	
Matrix: (soil/v	vater)	SOIL		Lal	Sample ID:	698905 125.0	
Sample wt/vo	ol:	4.0	(g/ml) <u>G</u>	. Lal	File ID:	B3369.D	
Level: (low/n	ned)	MED		Da	te Received:	12/24/03	
% Moisture: r	not dec.	18.9		Da	te Analyzed:	12/31/03	
GC Column:	DB-62	4 ID:	0.32 (mm)	Dile	ution Factor:	1.8 125.0	
Soil Extract V	/olume	10000	(uL)	Soi	il Aliquot Vol	ume: 100	(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	Ū
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1800	
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	1500	U
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene	13000	
75-27-4	Bromodichloromethane	1500	Ų
10061-01-5	cis-1,3-Dichloropropene	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	1500	U
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	1500	U
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3	(m+p)Xylene	1500	U
100-42-5	Styrene	1500	Ų
79-34-5	1,1,2,2-Tetrachloroethane	1500	Ų
95-47 - 6	o-Xylene	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	U
56-23-5	Carbon tetrachloride	1500	U
78-87-5	1,2-Dichloropropane	1500	U

EPA SAMPLE NO.

Lab Name:	CAS\RC	СН			Contract:	SEARB		w	WALLS	
Lab Code:	10145		Case No.:	R3-19595	SAS No	o.:	SD	G No.:	697119)
Matrix: (soil/w	vater)	SOIL			La	b Sample	D: <u>6</u>	98905	125.0	
Sample wt/vo	of:	4.0	(g/ml)	G	Lai	b File ID:	<u> </u>	33369.)	
Level: (low/m	ned)	MED			Da	te Recei	ved: 1	2/24/03	3	
% Moisture: n	ot dec.	18.9			Da	te Analyz	zed: <u>1</u>	2/31/03	3	
GC Column:	DB-624	4_ ID:	<u>0.32</u> (n	nm)	Dil	ution Fac	tor: <u>1</u>	A 125	5.0	
Soil Extract V	olume _	10000	(uL)		So	il Aliquot	Volum	ie: <u>100</u>)	(uL)
				COV	ICENTRAT	TION UN	ITS:			
Number TICs	found:	6		(ug/l	or ug/Kg)	UG	/KG			
	T									

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.99	1100	JN
2. 001120-21-4	Undecane	22.42	2100	JN
3.	unknown hydrocarbon	23.71	1200	J
4. 000112-40-3	Dodecane	24.67	1500	JN
5. 000091-20-3	Naphthalene	26.19	770	JN
6. 000629-50-5	Tridecane	26.65	970	JN

EPA SAMPLE NO.

WWALL2-S Lab Name: CAS/ROCH Contract: SEARB Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119 Matrix: (soil/water) SOIL Lab Sample ID: 699602 2.0 5.0 (g/ml) G Lab File ID: Sample wt/vol: B3416.D Level: (low/med) LOW Date Received: 12/31/03 % Moisture: not dec. 13.4 Date Analyzed: 01/06/04 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0 Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	23	U
75-01-4	Vinyl chloride	23	د
75-00-3	Chloroethane	23	د
74-83-9	Bromomethane	23	U
67-64-1	Acetone	18	J
75-09-2	Methylene chloride	23	U
75-15-0	Carbon disulfide	23	U
78-93-3	2-Butanone	23	U
156-59-2	cis-1,2-Dichloroethene	270	
67-66-3	Chloroform	23	U
107-06-2	1,2-Dichloroethane	23	U
71-55-6	1,1,1-Trichloroethane	23	U
71-43-2	Benzene	23	U
79-01-6	Trichloroethene	280	
75-27-4	Bromodichloromethane	23	U
10061-01-5	cis-1,3-Dichloropropene	23	U
10061-02-6	trans-1,3-Dichloropropene	23	U
79-00-5	1,1,2-Trichloroethane	23	U
124-48-1	Dibromochloromethane	23	U
75-25-2	Bromoform	23	U
108-10-1	4-Methyl-2-pentanone	23	U
108-88-3	Toluene	23	U
591-78-6	2-Hexanone	23	U
127-18-4	Tetrachloroethene	23	U
108-90-7	Chlorobenzene	23	U
100-41-4	Ethylbenzene	23	U
108-38-3/106-42-3	(m+p)Xylene	23	U
100-42-5	Styrene	23	U
79-34-5	1,1,2,2-Tetrachioroethane	23	U
95-47-6	o-Xylene	23	U
156-60-5	trans-1,2-Dichloroethene	23	Ü
75-35-4	1,1-Dichloroethene	23	Ū
75-34-3	1,1-Dichloroethane	4	J
56-23-5	Carbon tetrachloride	23	Ū
78-87-5	1,2-Dichloropropane	23	Ū

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WWALL2-S Lab Name: CAS/ROCH Contract: SEARB Lab Code: 10145 Case No.: R3-19595 SAS No.: _____ SDG No.: 697119 SOIL Lab Sample ID: 699602 2.0 Matrix: (soil/water) Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3416.D Level: (low/med) LOW Date Received: 12/31/03 % Moisture: not dec. 13.4 Date Analyzed: 01/06/04 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0 Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/KG Number TICs found:

RT

26.16

EST. CONC.

Q

COMPOUND

unknown alkane

CAS NO.

EPA SAMPLE NO.

 Lab Name:
 CAS/ROCH
 Contract:
 SEARB
 WBOTT2-S

 Lab Code:
 10145
 Case No.:
 R3-19595
 SAS No.:
 SDG No.:
 697119

 Matrix: (soil/water)
 SOIL
 Lab Sample ID:
 699603 2.0

 Sample wt/vol:
 5.0
 (g/ml) G
 Lab File ID:
 B3440.D

Level: (low/med) LOW Date Received: 12/31/03
% Moisture: not dec. 19.2 Date Analyzed: 01/07/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 4.0 2.0

Soil Extract Volume ____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
75-00-3	Chloroethane	25	U
74-83-9	Bromomethane	25	U
67-64-1	Acetone	8	J
75-09-2	Methylene chloride	25	U
75-15-0	Carbon disulfide	25	- U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	57	
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	C
71-55-6	1,1,1-Trichloroethane	25	U
71-43-2	Benzene	25	U
79-01-6	Trichloroethene	100	
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	٦
79-00-5	1,1,2-Trichloroethane	25	U
124-48-1	Dibromochloromethane	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
108-38-3/106-42-3	(m+p)Xylene	25	U
100-42-5	Styrene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U.
95-47-6	o-Xylene	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
56-23-5	Carbon tetrachloride	25	U
78-87-5	1,2-Dichloropropane	25	Ü

EPA SAMPLE NO.

								WBOT	T2-S
Lab Name:	CAS/RO	OCH			Contract:	SEARE	<u> </u>		
Lab Code:	10145	Ca	se No.: <u>I</u>	R3-19595	SASN	o.:	_ SDO	3 No.: <u>697</u>	119
Matrix: (soil/v	water)	SOIL	-		La	b Sample	D: 6	99603 2.0	
Sample wt/vo	ol:	5.0	(g/ml)	G	La	b File ID:	<u>В</u>	3440.D	
Level: (low/n	ned)	LOW	_		D	ate Recei	ved: 1	2/31/03	
% Moisture: r	not dec.	19.2			D	ate Analy	zed: <u>0</u>	1/07/04	
GC Column:	DB-62	4 ID: <u>0.</u>	32 (m	m)	Di	lution Fac	tor: <u>1</u>	er 2.0	
Soil Extract V	/olume	1	_ (uL)		Sc	oil Aliquot	Volum	e: <u>1</u>	(uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG									
CAS NO.		COMPOL	JND			RT	EST.	CONC.	Q
1. 062016	34-6	Octane, 2,	3,7-trime	thyl-		26.15		22	JN

27.79

unknown hydrocarbon

EPA SAMPLE NO.

Lab Name: CAS/ROCH Contract: SEARB RW1-BOTTS

Lab Code: 10145 Case No.: R3-19595 SAS No.: SDG No.: 697119

Matrix: (soil/water) SOIL Lab Sample ID: 699604 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3418.D

Level: (low/med) LOW Date Received: 12/31/03
% Moisture: not dec. 19.1 Date Analyzed: 01/06/04

 % Moisture: not dec.
 19.1
 Date Analyzed: 01/06/04

 GC Column:
 DB-624
 ID: 0.32 (mm)
 Dilution Factor: 1.0

Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
74-87-3	Chloromethane			12	U
75-01-4	Vinyl chloride			5	J
75-00-3	Chloroethane			12	U
74-83-9	Bromomethane		•	12	U
67-64-1	Acetone			15	
75-09-2	Methylene chlori	de	•	12	U
75-15-0	Carbon disulfide			12	U
78-93-3	2-Butanone			12	U
156-59-2	cis-1,2-Dichloroe	thene		7	J
67-66-3	Chloroform			12	υ
107-06-2	1,2-Dichloroetha			12	U_
71-55-6	1,1,1-Trichloroet	hane		12	U
71-43-2	Benzene			12	U
79-01-6	Trichloroethene			31	
75-27-4	Bromodichlorom	ethane	•	12	U
10061-01-5	cis-1,3-Dichlorop	ropene	1	12	U
10061-02-6	trans-1,3-Dichlor	opropene	1	12	U
79-00-5	1,1,2-Trichloroet	hane	•	12	U
124-48-1	Dibromochlorom	ethane		12	U
75-25-2	Bromoform		-	12	U
108-10-1	4-Methyl-2-penta	inone		12	U
108-88-3	Toluene		1	12	U
591-78-6	2-Hexanone			2	U_
127-18-4	Tetrachloroethen	e		12	Ū
108-90-7	Chlorobenzene		1	2	U
100-41-4	Ethylbenzene		1	2	U
108-38-3/106-42-3	(m+p)Xylene		1	2	U
100-42-5	Styrene		1	2	U
79-34-5	1,1,2,2-Tetrachlo	roethane	1	2	C
95-47-6	o-Xylene		1	2	C
156-60-5	trans-1,2-Dichlor	oethene	1	2	U
75-35-4	1,1-Dichloroether	ne	1	12	U
75-34-3	1,1-Dichloroetha			2	J
56-23-5	Carbon tetrachlo	ride	1	12	U_
78-87-5	1,2-Dichloroprop	ane		12	υ

EPA SAMPLE NO.

Lab Name:	CAS/RO	СН		Contract:	SEARB	RVV1-BUTTS
Lab Code:	10145		Case No.: R3-19595	SAS No).: §	SDG No.: 697119
Matrix: (soil/v	vater)	SOIL		Lai	b Sample ID:	699604 1.0
Sample wt/vo	oł;	5.0	(g/ml) G	Lal	b File ID:	B3418.D
Level: (low/n	ned)	LOW		Da	te Received:	12/31/03
% Moisture: r	not dec.	19.1		Da	te Analyzed:	01/06/04
GC Column:	DB-624	1D:	0.32 (mm)	Dile	ution Factor:	1.0
Soil Extract V	olume <u>1</u>	1	(uL)	Soi	il Aliquot Vol	ume: 1 (uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004291-80-9	Cyclohexane, 1-methyl-3-propyl-	19.96	50	JN
2. 002847-72-5	Decane, 4-methyl-	20.57	72	JN
3.	unknown alkane	21.03	35	J
4. 001678-93-9	Cyclohexane, butyl-	21.25	41	JN
5.	unknown hydrocarbon	22.31	65	J
6.	unknown hydrocarbon	22.61	78	J
7. 000506-51-4	1-Tetracosanol	22.84	93	JN
8.	unknown alkane	23.10	35	J
9.	unknown hydrocarbon	23.46	65	J
10.	unknown hydrocarbon	23.64	130	J
11.	unknown hydrocarbon	24.07	79	J
12.	unknown hydrocarbon	24.87	41	J
13. 006044-71-9	Dodecane, 6-methyl-	24.96	73	JN
14.	unknown hydrocarbon	25.16	69	J
15.	unknown alkane	26.16	82	J

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM Client Sample ID : BU-GP2-S2TOP-S

Date Sampled: 12/24/03 10:52 Order #: 698895
Date Received: 12/24/03 Submission #: R2319657 Sample Matrix: SOIL/SEDIMENT

Percent Solid: 84.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 5.0	0		Dry Weight
ACETONE	20	120 U	UG/KG
BENZENE	5.0	30 U	UG/KG
BROMODICHLOROMETHANE	5.0	30 U	UG/KG
BROMOFORM	5.0	30 U	UG/KG
BROMOMETHANE	5.0	30 U	UG/KG
2-BUTANONE (MEK)	10	13 J	UG/KG
CARBON DISULFIDE	10	59 U	UG/KG
CARBON TETRACHLORIDE	5.0	30 U	UG/KG
CHLOROBENZENE	5.0	30 U .	UG/KG
CHLOROETHANE	5.0	11 J <i>N</i>	UG/KG
CHLOROFORM	5.0	30 U	UG/KG
CHLOROMETHANE	5.0	30 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	30 U	UG/KG
1,1-DICHLOROETHANE	5.0	30 U	UG/KG
1,2-DICHLOROETHANE	5.0	30 U	UG/KG
1,1-DICHLOROETHENE	5.0	30 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	15 J	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	30 U	UG/KG
1,2-DICHLOROPROPANE	5.0	30 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	30 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	30 U	UG/KG
ETHYLBENZENE	5.0	190	UG/KG
2-HEXANONE	10	59 U	UG/KG
METHYLENE CHLORIDE	5.0	30 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	59 U	UG/KG
STYRENE	5.0	30 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	30 U	UG/KG
TETRACHLOROETHENE	5.0	30 U	UG/KG
TOLUENE	5.0	30 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	30 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	30 U	UG/KG
TRICHLOROETHENE	5.0	20 J	UG/KG
VINYL CHLORIDE	5.0	30 U	UG/KG
O-XYLENE	5.0	46	UG/KG
M+P-XYLENE	5.0	450	UG/KG
HTE AIDENE	5.0	450	09/16
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	93	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	100	%
	125 0/	-00	

DLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: cas/roch Contract: SEARB GP2-S2TOPS

Lab Code: 10145 Case No.: R3-19657 SAS No.: SDG No.: 698895

Matrix: (soil/water) SOIL Lab Sample ID: 698895 250.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3290.D

Level: (low/med) MED Date Received:

% Moisture: not dec. 15.6 Date Analyzed: 12/24/03

GC Column: db-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/KG

		I		
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic hydrocarbon	18.05	5300	J
2.	unknown aliphatic hydrocarbon	18.32	4600	J
3. 001678-92-8	Cyclohexane, propyl-	18.62	5400	JN
4.	unknown aliphatic hydrocarbon	18.93	8200	J
5.	unknown c10 aliphatic	19.04	8700	J
6.	unknown cyclic hydrocarbon	20.01	9700	J
7. 002847-72-5	Decane, 4-methyl-	20.61	4400	JN
8. 000095-63-6	Benzene, 1,2,4-trimethyl-	20.81	7500	JN
9. 001678-93-9	Cyclohexane, butyl-	21.30	12000	JN
10. 000105-05-5	Benzene, 1,4-diethyl-	22.24	4900	JN
11. 000493-02-7	Naphthalene, decahydro-, trans-	22.35	7700	JN
12.	unknown cyclic hydrocarbon	22.51	4000	J
13.	unknown aromatic hydrocarbon	22.64	8800	J
14.	unknown hydrocarbon	22.88	11000	j
15. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	23.03	4900	JN
16.	unknown hydrocarbon	23.32	5200	J
17.	unknown hydrocarbon	23.51	6300	J
18.	unknown hydrocarbon	23.67	10000	J
19.	unknown cyclic hydrocarbon	23.76	6300	J
20. 002958-76-1	Naphthalene, decahydro-2-methy	24.12	8300	JN

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP3-S1TOP-S

Date Sampled: 12/24/03 11:00 Order #: 698896 Sample Matrix: SOIL/SEDIMENT

Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 91.6

Date Received: 12/24/03 Submi	ssion #: R2319657	Percent Solid:	91.6
ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03			
ANALYTICAL DILUTION: 625.	00		Dry Weight
ACETONE	20	14000 U	UG/KG
BENZENE	5.0	3400 U	UG/KG
BROMODICHLOROMETHANE	5.0	3400 U	UG/KG
BROMOFORM	5.0	3400 U	UG/KG
BROMOMETHANÉ	5.0	3400 U	UG/KG
2-BUTANONE (MEK)	10	6800 U	UG/KG
CARBON DISULFIDE	10	6800 U	UG/KG
CARBON TETRACHLORIDE	5.0	3400 U	UG/KG
CHLOROBENZENE	5.0	3400 U	UG/KG
CHLOROETHANE	5.0	3400 U	UG/KG
CHLOROFORM	5.0	3400 U	UG/KG
CHLOROMETHANE	5.0	3400 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	3400 U	UG/KG
1,1-DICHLOROETHANE	5.0	880 J	UG/KG
1,2-DICHLOROETHANE	5.0	3400 U	UG/KG
1,1-DICHLOROETHENE	5.0	3400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	67000	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	3400 U	UG/KG
1,2-DICHLOROPROPANE CIS-1,3-DICHLOROPROPENE	5.0	3400 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	3400 U	UG/KG
ETHYLBENZENE	5.0	3400 U	UG/KG
2-HEXANONE	5.0	3400 U	UG/KG
METHYLENE CHLORIDE	10 5.0	6800 U 3400 U	UG/KG UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	6800 U	UG/KG UG/KG
STYRENE (MIBR)	5.0	3400 U	UG/KG UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	3400 U	UG/KG UG/KG
TETRACHLOROETHENE	5.0	810 J	UG/KG UG/KG
TOLUENE	5.0	3400 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	3500	UG/KG
1,1,2-TRICHLOROETHANE	5.0	3400 U	UG/KG
TRICHLOROETHENE	5.0	120000	UG/KG
VINYL CHLORIDE	5.0		UG/KG
O-XYLENE	5.0	3400 U	UG/KG
M+P-XYLENE	5.0	3400 U	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	104	%
TOLUENE-D8	(83 - 117 %)	105	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	102	%

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: c	as/roch		Contract: SEARB	GP3-S110PS
Lab Code: 1	0145	Case No.: R3-19657	SAS No.: SI	OG No.: 698895
Matrix: (soil/wa	ter) <u>SOIL</u>		Lab Sample ID:	698896 625.0
Sample wt/vol:	4.0	(g/ml) <u>G</u>	Lab File ID:	B3291.D
Level: (low/me	ed) <u>MED</u>		Date Received:	
% Moisture: no	t dec. <u>8.4</u>		Date Analyzed:	12/24/03
GC Column:	db-624 ID:	<u>0.32</u> (mm)	Dilution Factor:	1.0
Soil Extract Vo	lume <u>10000</u>	(uL)	Soil Aliquot Volu	me: 100 (uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

		,		
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic	20.00	11000	J
2. 002847-72-5	Decane, 4-methyl-	20.61	3600	JN
3. 001678-93-9	Cyclohexane, butyl-	21.30	7700	JN
4. 000493-02-7	Naphthalene, decahydro-, trans-	22.35	4700	JN
5. 001120-21-4	Undecane	22.44	8800	JN
6.	unknown aromatic hydrocarbon	22.64	5500	J
7.	unknown hydrocarbon	22.88	5900	J
8.	unknown hydrocarbon	23.51	3600	J
9.	unknown hydrocarbon	23.67	6100	J
10.	unknown cyclic hydrocarbon	23.76	4400	J
11. 002958-76-1	Naphthalene, decahydro-2-methy	24.12	5800	JN

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP3-S1MID-S

Date Sampled: 12/24/03 11:02 Order #: 698897 Sample Matrix: SOIL/SEDIMENT

Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 86.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/24/03	3		
ANALYTICAL DILUTION: 125.			Dry Weight
ACETONE	20	2900 U	UG/KG
BENZENE	5.0	730 Ŭ	UG/KG
BROMODICHLOROMETHANE	5.0	730 U	UG/KG
BROMOFORM	5.0	730 บ	UG/KG
BROMOMETHANE	5.0	730 บ	UG/KG
2-BUTANONE (MEK)	10	1500 U	UG/KG
CARBON DISULFIDE	10	1500 U	UG/KG
CARBON TETRACHLORIDE	5.0	730 Ŭ	UG/KG
CHLOROBENZENE	5.0	730 U	UG/KG
CHLOROETHANE	5.0	730 U	UG/KG
CHLOROFORM	5.0	730 U	UG/KG
CHLOROMETHANE	5.0	730 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHANE	5.0	730 U	UG/KG
1,2-DICHLOROETHANE	5.0	730 U	UG/KG
1,1-DICHLOROETHENE		730 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0		UG/KG
·	5.0	4400	
TRANS-1,2-DICHLOROETHENE	5.0	730 U	UG/KG
1,2-DICHLOROPROPANE	5.0	730 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	730 U	UG/KG
ETHYLBENZENE	5.0	730 U	UG/KG
2-HEXANONE	_10	1500 U	UG/KG
METHYLENE CHLORIDE	5.0	730 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1500 U	UG/KG
STYRENE	5.0	730 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	730 U	UG/KG
TETRACHLOROETHENE	5.0	730 U	UG/KG
TOLUENE	5.0	730 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	340 J	UG/KG
1,1,2-TRICHLOROETHANE	5.0	730 U	UG/KG
TRICHLOROETHENE	5.0	8600	UG/KG
VINYL CHLORIDE	5.0	360 J	UG/KG
O-XYLENE	5.0	730 U	UG/KG
M+P-XYLENE	5.0	730 U	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	102	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	106	%

EPA SAMPLE NO.

GP3-S1MIDS Lab Name: cas/roch Contract: SEARB Case No.: R3-19657 SAS No.: SDG No.: 698895 Lab Code: 10145 SOIL Lab Sample ID: 698897 125.0 Matrix: (soil/water) 4.0 Lab File ID: B3288.D Sample wt/vol: (g/ml) G Level: (low/med) MED Date Received: Date Analyzed: 12/24/03 % Moisture: not dec. 13.9 GC Column: db-624 ID: 0.32 Dilution Factor: 1.0 (mm) Soil Aliquot Volume: 100 (uL) Soil Extract Volume 10000 **CONCENTRATION UNITS:** UG/KG (ug/L or ug/Kg) Number TICs found:

CAS	NO.	COMPOUND	RT	EST. CONC.	Q
1.	001120-21-4	Undecane	22.44	810	JN
2.	000112-40-3	Dodecane	24.69	730	JN

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM Client Sample ID : BU-GP3-S1BOTT-S

Date Sampled: 12/24/03 11:03 Order #: 698898 Sample Matrix: SOIL, Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 77.0 Sample Matrix: SOIL/SEDIMENT

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
	.00		Dry Weight
ACETONE	20	38	UG/KG
BENZENE	5.0	6.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	6.5 U	UG/KG
BROMOFORM	5.0	6.5 U	UG/KG
BROMOMETHANE	5.0	6.5 U	UG/KG
2-BUTANONE (MEK)	10	3.8 J	UG/KG
CARBON DISULFIDE	10	13 Ŭ	UG/KG
CARBON TETRACHLORIDE	5.0	6.5 U	UG/KG
CHLOROBENZENE	5.0	6.5 U	UG/KG
CHLOROETHANE	5.0	6.5 U	UG/KG
CHLOROFORM	5.0	6.5 Ŭ	UG/KG
CHLOROMETHANE	5.0	6.5 Ŭ	UG/KG
DIBROMOCHLOROMETHANE	5.0	6.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.8	UG/KG
1,2-DICHLOROETHANE	5.0	6.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	6.5 U	UG./KG
CIS-1,2-DICHLOROETHENE	5.0	26	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6.5 U	UG/KG
ETHYLBENZENE	5.0	6.5 U	UG/KG
2-HEXANONE	10	13 U	UG/KG
METHYLENE CHLORIDE	5.0	6.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	13 U	UG/KG
STYRENE	5.0	6.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	6.5 U	UG/KG
TETRACHLOROETHENE	5.0	6.5 U	UG/KG
TOLUENE	5.0	1.4 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6.5 U	UG/KG
TRICHLOROETHENE	5.0	21	UG/KG
VINYL CHLORIDE	5.0	17	UG/KG
O-XYLENE	5.0	2.2 J	UG/KG
M+P-XYLENE	5.0	6.5 U	UG/KG
M+9-A1DENE	5.0	6.5 0	OG/ RG
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P3-S1BOTTSDL

Lab Name:	CAS-RO	OC		Contract:	SEARB	
Lab Code:	10145	<u>_</u>	Case No.: R3-19657	SAS No	o.:	SDG No.: <u>698895</u>
Matrix: (soil/	water)	SOIL		La	b Sample ID	: 698898 1.0
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	Lai	b File ID:	H3811.D
Level: (low/i	med)	LOW		Da	te Received	•
% Moisture:	not dec.	23		Da	te Analyzed	12/26/03
GC Column:	ZB624	ID:	0.32 (mm)	Dil	ution Factor	50 1.0 (BA1/26)
Soil Extract	Volume	1	(uL)	So	il Aliquot Vo	lume: 1 (uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CA	S NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Hydrocarbon	17.93	33	JD
2.	017301-94-9	Nonane, 4-methyl-	18.33	100	JND
3.	005911-04-6	Nonane, 3-methyl-	18.59	31	JND
4.	002847-72-5	Decane, 4-methyl-	19.88	120	JND
5.	001678-93-9	Cyclohexane, butyl-	20.67	77	JND
6.		Unknown Hydrocarbon	21.80	99	JD
7.		Unknown Alkane	22.15	63	JD
8.		Unknown Hydrocarbon	22.29	54	JD
9.		Unknown Alkane	22.42	88	JD
10.		Unknown Hydrocarbon	22.78	79	JD
11.		Unknown Alkane	22.99	100	JD
12.		Unknown Hydrocarbon	23.13	180	JD
13.		Unknown Hydrocarbon	23.58	69	JD
14.		Unknown Hydrocarbon	24.21	39	JD
15.	006044-71-9	Dodecane, 6-methyl-	24.31	210	JND
16.		Unknown Hydrocarbon	24.62	38	JD
17.		Unknown Hydrocarbon	24.96	42	JD
18.		Unknown Cyclic Alkane	25.55	98	JD
19.		Unknown Alkane	25.68	120	JD
20.		Unknown Alkane	28.39	38	JD

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM
Client Sample ID : BU-GP3-S2BOTTS

Date Sampled: 12/24/03 11:10 Order #: 698899 Sample Matrix: SOIL/SEDIMENT

Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 85.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03	}		
ANALYTICAL DILUTION: 5.	.00		Dry Weight
ACETONE	20	29 J	UG/KG
BENZENE	5.0	29 U	UG/KG
BROMODICHLOROMETHANE	5.0	29 U	UG/KG
BROMOFORM	5.0	29 U	UG/KG
BROMOMETHANE	5.0	29 U	UG/KG
2-BUTANONE (MEK)	10	58 U	UG/KG
CARBON DISULFIDE	10	58 U	UG/KG
CARBON TETRACHLORIDE	5.0	29 U	UG/KG
CHLOROBENZENE	5.0	29 U	UG/KG
CHLOROETHANE	5.0	29 U	UG/KG
CHLOROFORM	5.0	29 U	UG/KG
CHLOROMETHANE	5.0	29 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	29 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.5 J	UG/KG
1,2-DICHLOROETHANE	5.0	29 U	UG/KG
1,1-DICHLOROETHENE	5.0	29 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	29 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	29 U	UG/KG
1,2-DICHLOROPROPANE	5.0	29 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	29 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	29 U	UG/KG
ETHYLBENZENE	5.0	20 J	UG/KG
2 - HEXANONE	10	58 U	UG/KG
METHYLENE CHLORIDE	5.0	29 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	58 Ŭ	UG/KG
STYRENE	5.0	29 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	29 U	UG/KG
TETRACHLOROETHENE	5.0	29 U	UG/KG
TOLUENE	5.0	29 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	29 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	29 Ŭ	UG/KG
TRICHLOROETHENE	5.0	8.0 J	UG/KG
VINYL CHLORIDE	5.0	29 U	•
O-XYLENE	5.0	22 J	· ·
M+P-XYLENE	5.0	21 J	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P3-S2BOTTSDL

Lab Name:	CAS-RO	oc		Contract:	SEARB	10-0250110	DL
Lab Code:	10145		Case No.: R3-19657	SAS No	.: S	DG No.: 698895	
Matrix: (soil/	water)	SOIL		Lal	Sample ID:	698899 5.0	
Sample wt/v	ol:	5.0	(g/ml) G	Lal	File ID:	H3810.D	
Level: (low/i	med)	LOW		Da	te Received:		
% Moisture:	not dec.	14.5		Da	te Analyzed:	12/26/03	
GC Column:	ZB624	L ID:	0.32 (mm)	Dil	ution Factor:	5.0	
Soil Extract \	Volume	1	(uL)	So	l Aliquot Volu	ume: 1	(uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 20

<u> </u>			1		
CA	S NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Alkane	15.65	390	JD
2.	002216-33-3	Octane, 3-methyl-	15.89	370	JZD
3.		Unknown Hydrocarbon	17.81	420	JD
4.		Unknown Hydrocarbon	17.93	440	JD
5.	017301-94-9	Nonane, 4-methyl-	18.33	2600	JND
6.	015869-94-0	Octane, 3,6-dimethyl-	18.59	760_	JND
7.	002847-72-5	Decane, 4-methyl-	19.89	600	JND
8.	001678-93-9	Cyclohexane, butyl-	20.68	440	JND
9.	013151-35-4	Decane, 5-methyl-	20.73	450	JND
10.	001120-21-4	Undecane	21.72	680_	JND
11.		Unknown Hydrocarbon	22.14	470	JD
12.		Unknown Hydrocarbon	22.30	470	JD
13.		Unknown Alkane	22.42	540	JD
14.		Unknown Hydrocarbon	22.77	390	JD
15.		Unknown Alkane	23.00	650	JD
16.		Unknown Hydrocarbon	23.12	1300	JD
17.		Unknown Hydrocarbon	23.58	400	JD
18.	017301-23-4	Undecane, 2,6-dimethyl-	24.31	850	JND
19.		Unknown Hydrocarbon	25.56	650	JD
20.	054105-67-8	Heptadecane, 2,6-dimethyl-	25.69	450	JND

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS METHOD 8260B TCL

Reported: 02/03/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM Client Sample ID : BU-GP1-S3BOTT-S

Date Sampled: 12/24/03 10:50 Order #: 698900 Sample Matrix: SOIL/Date Received: 12/24/03 Submission #: R2319657 Percent Solid: 84.1 Sample Matrix: SOIL/SEDIMENT

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/03			
ANALYTICAL DILUTION: 1.0	0		Dry Weight
ACETONE	20	6.3 J	UG/KG
BENZENE	5.0	5.9 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.9 U	UG/KG
BROMOFORM	5.0	5.9 U	UG/KG
BROMOMETHANE	5.0	5.9 Ŭ	UG/KG
2-BUTANONE (MEK)	10	1.2 J	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.9 U	UG/KG
CHLOROBENZENE	5.0	5.9 U	UG/KG
CHLOROETHANE	5.0	5.9 U	UG/KG
CHLOROFORM	5.0	5.9 U	UG/KG
CHLOROMETHANE	5.0	5.9 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.9 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.9 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
ETHYLBENZENE	5.0	5.9 U	UG/KG
2 - HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	5.9 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG UG/KG
STYRENE	5.0	5.9 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.9 U	UG/KG UG/KG
TETRACHLOROETHENE	5.0	5.9 U	UG/KG UG/KG
TOLUENE	5.0	5.9 U	UG/KG UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.9 U	UG/KG UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.9 U	UG/KG UG/KG
TRICHLOROETHENE	5.0	5.9 U	
VINYL CHLORIDE	5.0	5.9 U	UG/KG UG/KG
O-XYLENE	5.0	5.9 U	UG/KG UG/KG
M+P-XYLENE			
M+6-VIDENC	5.0	5.9 U	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	92	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	95	%
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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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GP1-S3BOTTS Lab Name: CAS-ROC Contract: SEARB Lab Code: Case No.: R3-19657 SAS No.: SDG No.: 698895 10145 SOIL Lab Sample ID: 698900 1.0 Matrix: (soil/water) Sample wt/vol: 5.0 (g/ml) G Lab File ID: H3812.D Level: (low/med) LOW Date Received: % Moisture: not dec. 15.9 Date Analyzed: 12/26/03 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume 1 Soil Aliquot Volume: 1 (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/KG Number TICs found: CAS NO. **COMPOUND NAME** RT EST. CONC. Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS METHOD 8260B TCL

Reported: 01/28/04

Sear-Brown Group

Project Reference: BUELL #16059 IRM Client Sample ID : BU-GP1-S3BOTT-S

Date Sampled: 12/24/03 10:50 Order #: 698900 Date Received: 12/24/03 Submission #: R2319657 Sample Matrix: SOIL/SEDIMENT
Percent Solid: 84.1

Date Received: 12/24/03 Subm	ission #: R2319657	Percent Solid:	84.1
ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/26/0 ANALYTICAL DILUTION: 1	3		Dry Weight
ANALYTICAL DILUTION:	.00		bry weight
ACETONE	20	6.3 J [*]	UG/KG
BENŻENE	5.0	5.9 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.9 U	UG/KG
BROMOFORM	5.0	5.9 U	UG/KG
BROMOMETHANE	5.0	5.9 U	UG/KG
2-BUTANONE (MEK)	10	1.2 J [∞]	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.9 U	UG/KG
CHLOROBENZENE	5.0	5.9 Ŭ .	UG/KG
CHLOROETHANE	5.0	5.9 U	UG/KG
CHLOROFORM	5.0	5.9 Ŭ	UG/KG
CHLOROMETHANE	5.0	5.9 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.9 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.9 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.9 Ŭ	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
ETHYLBENZENE	5.0	5.9 U	UG/KG
2-HEXANONE	10	12 U	UG/KG
METHYLENE CHLORIDE	5.0	5.9 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	5.9 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.9 U	UG/KG
TETRACHLOROETHENE	5.0	5.9 U	UG/KG
TOLUENE	5.0	5.9 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.9 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.9 U	UG/KG
TRICHLOROETHENE	5.0	5.9 Ŭ	UG/KG
VINYL CHLORIDE	5.0	5.9 Ŭ	UG/KG
O-XYLENE	5.0	5.9 U	UG/KG
M+P-XYLENE	5.0	5.9 Ŭ	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
			0
4-BROMOFLUOROBENZENE	(68 - 128 %)	92	%
TOLUENE-D8	(83 - 117 %)	98	용
DIBROMOFLUOROMETHANE	(72 - 123 %)	95	ફ

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAN	/IPL	E	NO.

Lab Name:	CAS-RC	C			Contract:	SEARB		
Lab Code:	10145		Case No.: R	3-19657	SAS No	.:	SDG No.: 6	398895
Matrix: (soil/	water)	SOIL	-		Lat	Sample	ID: 698900 1	.0
Sample wt/v	ol:	5.0	(g/ml) <u>C</u>	3	Lat	File ID:	H3812.D	
Level: (low/r	med)	LOW			Da	te Receiv	ed:	
% Moisture:	not dec.	15.9			Da	te Analyz	ed: 12/26/03	
GC Column:	ZB624	ID:	<u>0.32</u> (mm	۱)	Dili	ution Fac	tor: 1.0	
Soil Extract \	Volume	1	(uL)		Soi	il Aliquot	Volume: 1	(uL)
					ICENTRAT			
Number TICs	s found:	0		(ug/L	or ug/Kg)	UG/	KG	
CAS NO.		COM	POUND NAMI	E		RT	EST. CONC	. Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS METHOD 8260B TCL Reported: 02/03/04

Sear-Brown Group

TOLUENE - D8

DIBROMOFLUOROMETHANE

Project Reference: BUELL IRM Client Sample ID : TRIP BLANK

Date Sampled: 12/24/03Order #: 698906 Sample Matrix: WATER Date Received: 12/24/03 Submission #: R2319657 Analytical Run 99165 ANALYTE POL RESULT UNITS DATE ANALYZED : 12/26/03 ANALYTICAL DILUTION: 1.00 ACETONE 20 20 U UG/L BENZENE 5.0 5.0 U UG/L BROMODICHLOROMETHANE UG/L 5.0 5.0 U **BROMOFORM** 5.0 U UG/L 5.0 BROMOMETHANE 5.0 5.0 U UG/L 2-BUTANONE (MEK) 10 10 U UG/L CARBON DISULFIDE 10 U UG/L 10 CARBON TETRACHLORIDE 5.0 5.0 U UG/L CHLOROBENZENE 5.0 5.0 U UG/L CHLOROETHANE 5.0 5.0 U UG/L CHLOROFORM 5.0 5.0 U UG/L CHLOROMETHANE 5.0 5.0 U UG/L DIBROMOCHLOROMETHANE 5.0 5.0 U UG/L 1,1-DICHLOROETHANE 5.0 5.0 U UG/L 1,2-DICHLOROETHANE 5.0 5.0 U UG/L 1,1-DICHLOROETHENE 5.0 U UG/L 5.0 5.0 5.0 U CIS-1,2-DICHLOROETHENE UG/L TRANS-1,2-DICHLOROETHENE UG/L 5.0 5.0 U 1,2-DICHLOROPROPANE 5.0 5.0 U UG/L CIS-1,3-DICHLOROPROPENE 5.0 5.0 U UG/L TRANS-1,3-DICHLOROPROPENE UG/L 5.0 5.0 U ETHYLBENZENE UG/L 5.0 5.0 U 2-HEXANONE 10 10 U UG/L METHYLENE CHLORIDE 5.0 5.0 U UG/L 4-METHYL-2-PENTANONE (MIBK) UG/L 10 10 U STYRENE 5.0 U 5.0 UG/L 1,1,2,2-TETRACHLOROETHANE 5.0 5.0 U UG/L TETRACHLOROETHENE 5.0 UG/L 5.0 U TOLUENE 5.0 5.0 U UG/L 1,1,1-TRICHLOROETHANE 5.0 5.0 U UG/L 1,1,2-TRICHLOROETHANE 5.0 5.0 U UG/L TRICHLOROETHENE 5.0 5.0 U UG/L VINYL CHLORIDE 5.0 5.0 U UG/L O-XYLENE 5.0 5.0 U UG/L M+P-XYLENE 5.0 U 5.0 UG/L SURROGATE RECOVERIES OC LIMITS 4 - BROMOFLUOROBENZENE (83 - 118 %) 98

(88)

(87

- 124 %)

- 115 %)

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EPA SAMPLE NO.

Lab Name:	cas/roch	1			Contract:	SEARE	. [TRIP	BLK
Lab Code:	10145	Ca	ase No.: R3	-19657	SAS N	o.:	SDG	No.: <u>69</u>	8895
Matrix: (soil/	water)	WATER	_		La	b Sample	D: 69	8906 1.0	
Sample wt/v	ol:	5.0	(g/ml) <u>M</u>	<u> </u>	La	b File ID:	<u>B</u> :	3311.D	
Level: (low/	med)	LOW			Da	ate Recei	ved:		
% Moisture:	not dec.				Da	ate Analy:	zed: <u>12</u>	2/26/03	
GC Column:	db-624	ID: 0.	.32 (mm)		Di	lution Fac	ctor: <u>1.</u>	0	
Soil Extract	Volume		(uL)		Sc	oil Aliquot	Volume	e:	(uL)
Number TIC	s found:	0			CENTRA or ug/Kg	TION UN) <u>UG</u>			
Truttibet Tro							Γ		
CAS NO.		COMPO	UND			RT	EST.	CONC.	Q

EPA SAMPLE NO.

GP-5 9-9.5

(uL)

Lab Name: CAS\ROCH Contract: SEARB SAS No.: SDG No.: 700222 Lab Code: 10145 Case No.: R4-19774 Lab Sample ID: 700222 2500 Matrix: (soil/water) SOIL 4.0 (g/ml) G Lab File ID: Sample wt/vol: R3362.D Date Received: 01/02/04 Level: (low/med) MED % Moisture: not dec. 11.4 Date Analyzed: 01/09/04 GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0 2500

(uL)

Soil Extract Volume 10000

CONCENTRATION UNITS:

Soil Aliquot Volume: 100

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	28000	U
75-01-4	Vinyl chloride	28000	U
74-83-9	Bromomethane	28000	C
75-00-3	Chloroethane	28000	U
75-35-4	1,1-Dichloroethene	28000	U
67-64-1	Acetone	28000	U
75-15-0	Carbon disulfide	28000	U
75-09-2	Methylene chloride	28000	U
156-60-5	trans-1,2-Dichloroethene	28000	U
75-34-3	1,1-Dichloroethane	28000	U
156-59-2	cis-1,2-Dichloroethene	28000	ט
78-93-3	2-Butanone	28000	J
67-66-3	Chloroform	28000	U
107-06-2	1,2-Dichloroethane	28000	J
71-55-6	1,1,1-Trichloroethane	3800	7
56-23-5	Carbon tetrachloride	28000	U
71-43-2	Benzene	28000	U
79-01-6	Trichloroethene	350000	
78-87-5	1,2-Dichloropropane	28000	U
75-27-4	Bromodichloromethane	28000	U
10061-01-5	cis-1,3-Dichloropropene	28000	J
10061-02-6	trans-1,3-Dichloropropene	28000	U
79-00-5	1,1,2-Trichloroethane	28000	J
124-48-1	Dibromochloromethane	28000	J
75-25-2	Bromoform	28000	ט
108-10-1	4-Methyl-2-pentanone	28000	U
108-88-3	Toluene	28000	U
127-18-4	Tetrachioroethene	28000	U
591-78-6	2-Hexanone	28000	U
108-90-7	Chlorobenzene	28000	U
100-41-4	Ethylbenzene	28000	U
108-38-3/106-42-3	(m+p) Xylene	28000	U
95-47-6	o-Xylene	28000	U
100-42-5	Styrene	28000	J
79-34-5	1,1,2,2-Tetrachloroethane	28000	J

EPA SAMPLE NO.

24000

JN

Lab Name:	CAS\R	осн			Contract:	SEARB		GP-5 9-	-9.5
Lab Code:	10145		Case No.: R4	-19774	SAS No	o.:	SDG N	o.: <u>700</u> 2	222
Matrix: (soil/	water)	SOIL			La	b Sample	D: 7002	22 2500	
Sample wt/v	ol:	4.0	(g/ml) <u>G</u>		La	b File ID:	R336	32.D	
Level: (low/r	med)	MED			Da	te Receiv	/ed: 01/02	2/04	
% Moisture:	not dec.	11.4			Da	ite Analyz	zed: <u>01/09</u>	9/04	
GC Column:	ZB-62	24_ ID:	0.25 (mm)		Dil	ution Fac	tor: <u>186</u>	ঠেত	
Soil Extract \	Volume	10000	(uL)		So	il Aliquot	Volume:	100	(uL)
				CON	CENTRA	TION UN	ITS:		
Number TICs	s found:	2		(ug/L	or ug/Kg)	UG/	KG		
CAS NO.		COMP	OUND			RT	EST. CO	ONC.	Q
1. 00112	0-21-4	Undeca	ne	··		12.90	25	5000	JN

2. 000112-40-3 Dodecane

EPA SAMPLE NO.

Lab Name: CAS/RC		OCH_		Contract:	SEARB	GF-5 12-12.6
Lab Code:	10145		Case No.: R3-19977	SAS No	.:	SDG No.: 700222
Matrix: (soil/v	water)	SOIL		Lal	Sample ID	: 700225 1.0
Sample wt/vo	ol:	5.0	(g/ml) <u>G</u>	Lal	File ID:	B3419.D
Level: (low/r	ned)	LOW		Da	te Received	: 01/02/04
% Moisture: ı	not dec.	18.3		Da	te Analyzed:	01/06/04
GC Column:	DB-62	4 ID:	<u>0.32</u> (mm)	Dil	ution Factor:	1.0
Soil Extract \	/olume	`	(uL)	So	il Aliquot Vol	lume: (ul

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	_	Q
74-87-3	Chloromethane			12	U
75-01-4	Vinyl chloride			12	U
75-00-3	Chloroethane			12	U
74-83-9	Bromomethane			12	U
67-64-1	Acetone			6	J
75-09-2	Methylene chlorid	de		1	J
75-15-0	Carbon disulfide			12	U
78-93-3	2-Butanone			12	U
156-59-2	cis-1,2-Dichloroe	thene		9	J
67-66-3	Chloroform			12	U
107-06-2	1,2-Dichloroethau	ne		12	U
71-55-6	1,1,1-Trichloroetl	hane		12	U
71-43-2	Benzene			12	U
79-01-6	Trichloroethene			32	
75-27-4	Bromodichlorome	ethane		12	U
10061-01-5	cis-1,3-Dichlorop	ropene		12	U
10061-02-6	trans-1,3-Dichlor	opropene		12	U
79-00-5	1,1,2-Trichloroetl			12	υ
124-48-1	Dibromochlorom	ethane		12	U
75-25-2	Bromoform			12	U
108-10-1	4-Methyl-2-penta	none		12	U
108-88-3	Toluene			12	U
591-78-6	2-Hexanone			12	U
127-18-4	Tetrachloroethen	ie		12	U
108-90-7	Chlorobenzene			12	U
100-41-4	Ethylbenzene			12	U
108-38-3/106-42-3	(m+p)Xylene			12	U
100-42-5	Styrene			12	U
79-34-5	1,1,2,2-Tetrachlo	roethane		12	U
95-47-6	o-Xylene			12	U
156-60-5	trans-1,2-Dichlor	oethene		12	U
75-35-4	1,1-Dichloroethe			12	C
75-34-3	1,1-Dichloroetha			12	U
56-23-5	Carbon tetrachlo			12	U
78-87-5	1,2-Dichloroprop			12	U

EPA SAMPLE NO	١.
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Lab Name:	CAS/RC	осн		Contract:	SEARB		GP-5 12	-12.6
Lab Code:	10145	Cas	e No.: R3-199	977 SAS No).:	SDO	3 No.: 700	222
Matrix: (soil/	water)	SOIL		Lai	b Sample	ID: <u>7</u>	00225 1.0	
Sample wt/v	ol:	5.0	(g/ml) G	Lai	b File ID:	В	3419.D	
Level: (low/	med)	LOW		Da	te Receiv	ed: 0	1/02/04	
% Moisture:	not dec.	18.3		Da	te Analyz	ed: <u>0</u>	1/06/04	
GC Column:	: <u>DB-62</u>	<u>4</u> ID: <u>0.3</u>	2_ (mm)	Dil	ution Fac	tor: <u>1</u>	.00	
Soil Extract	Volume	1	_ (uL)	So	il Aliquot	Volum	e: <u>1</u>	(uL)
			c	CONCENTRA	TION UNI	TS:		
Number TIC	s found:	1	-	ug/L or ug/Kg)	UG/	KG		
CAS NO.		COMPOU	ND	Ì	RT	EST	. CONC.	Q
1		unknown a	kane		26 16		9	J

EPA SAMPLE NO.

GP-6 10-10.5

Lab Name:	CAS/RC	CH		Contract:	SEARB		
Lab Code:	10145		Case No.: R3-19977	SAS No	.:	SDG No.: 700222	
Matrix: (soil/	water)	SOIL	 _	Lal	o Sample ID	700226 1.0	
Sample wt/v	ol:	5.0	(g/ml) <u>G</u>	Lal	File ID:	B3420.D	
Level: (low/r	med)	LOW		Da	te Received	: 01/02/04	
% Moisture:	not dec.	18.7		Da	te Analyzed:	: 01/06/04	
GC Column:	DB-62	4 ID:	0.32 (mm)	Dil	ution Factor:	: 1.0	
Soil Extract \	Volume		(uL)	So	il Aliquot Vo	lume:	(uL

		CONCENTION	or or or or		
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
74-87-3	Chloromethane			12	U
75-01-4	Vinyl chloride			12	U
75-00-3	Chloroethane			12	U
74-83-9	Bromomethane			12	U
67-64-1	Acetone			5	J
75-09-2	Methylene chlorid	le		2	J
75-15-0	Carbon disulfide			12	U
78-93-3	2-Butanone			12	U
156-59-2	cis-1,2-Dichloroet	thene		7	J
67-66-3	Chloroform			12	U
107-06-2	1,2-Dichloroethar	ne		12	U
71-55-6	1,1,1-Trichloroeth	nane		12	U
71-43-2	Benzene			12	U
79-01-6	Trichloroethene			12	J
75-27-4	Bromodichlorome	ethane		12	U
10061-01-5	cis-1,3-Dichlorop	ropene		12	U
10061-02-6	trans-1,3-Dichlore			12	U
79-00-5	1,1,2-Trichloroeth			12	U
124-48-1	Dibromochlorome	ethane		12	U
75-25-2	Bromoform			12	U
108-10-1	4-Methyl-2-penta	none		12	U
108-88-3	Toluene			12	U
591-78-6	2-Hexanone			12	U
127-18-4	Tetrachloroethen	<u>e</u>		12	U
108-90-7	Chlorobenzene			12	U
100-41-4	Ethylbenzene			12	U
108-38-3/106-42-3				12	U
100-42-5	Styrene			12	U
79-34-5	1,1,2,2-Tetrachlo	roethane		12	U
95-47-6	o-Xylene			12	υ
156-60-5	trans-1,2-Dichlor	oethene		12	U
75-35-4	1,1-Dichloroether			12	U
75-34-3	1,1-Dichloroetha			12	U
56-23-5	Carbon tetrachlo			12	U
78-87-5	1,2-Dichloroprop			12	U

EPA SAMPLE NO.

GP-6 10-10.5 Contract: SEARB Lab Name: CAS/ROCH SAS No.: SDG No.: 700222 Lab Code: 10145 Case No.: R3-19977 SOIL Lab Sample ID: 700226 1.0 Matrix: (soil/water) (g/ml) <u>G</u> Sample wt/vol: 5.0 Lab File ID: B3420.D LOW Date Received: 01/02/04 Level: (low/med) Date Analyzed: 01/06/04 % Moisture: not dec. 18.7 Dilution Factor: 1.0 GC Column: DB-624 ID: 0.32 (mm) Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/KG Number TICs found: RT Q CAS NO. COMPOUND EST. CONC.

EPA SAMPLE NO.

GP-8 7.5-8S

Contract: SEARB Lab Name: CAS\ROCH Case No.: R3-19774 SAS No.: SDG No.: 700222 Lab Code: 10145 Matrix: (soil/water) SOIL Lab Sample ID: 700227 125.0 4.0 Sample wt/vol: (g/ml) G Lab File ID: B3459.D Date Received: 01/02/04 Level: (low/med) MED % Moisture: not dec. 18.8 Date Analyzed: 01/08/04 Dilution Factor: 120 125.0 GC Column: DB-624 ID: 0.32 (mm) Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	1500	U
75-01-4	Vinyl chloride	1500	U_
75-00-3	Chloroethane	1500	U
74-83-9	Bromomethane	1500	U
67-64-1	Acetone	1500	U
75-09-2	Methylene chloride	1500	U
75-15-0	Carbon disulfide	1500	U
78-93-3	2-Butanone	1500	U
156-59-2	cis-1,2-Dichloroethene	1600	
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
71-55-6	1,1,1-Trichloroethane	4100	
71-43-2	Benzene	1500	U
79-01-6	Trichloroethene 3	20,000 260000	— <u>Е</u> —
75-27-4	Bromodichloromethane	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	<u>U</u>
10061-02-6	trans-1,3-Dichloropropene	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
124-48-1	Dibromochloromethane	1500	U
75-25-2	Bromoform	1500	<u>U</u>
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	270	J
591-78-6	2-Hexanone	1500	U
127-18-4	Tetrachloroethene	2000	
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	1500	U
108-38-3/106-42-3		160	J
100-42-5	Styrene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U
95-47-6	o-Xylene	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-34-3	1,1-Dichloroethane	1500	U
56-23-5	Carbon tetrachloride	1500	U
78-87-5	1,2-Dichloropropane	1500	U

EPA SAMPLE NO.

GP-8 7.5-8S

 Lab Name:
 CAS\ROCH
 Contract:
 SEARB

 Lab Code:
 10145
 Case No.:
 R3-19774
 SAS No.:
 SDG No.:
 700222

 Matrix:
 (soil/water)
 SOIL
 Lab Sample ID:
 700227 125.0

 Sample wt/vol:
 4.0
 (g/ml)
 G
 Lab File ID:
 B3459.D

Level: (low/med) MED Date Received: 01/02/04
% Moisture: not dec. 18.8 Date Analyzed: 01/08/04

GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 10 i25 6

Soil Extract Volume 10000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 15 (ug/L of ug/Ng)

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000124-18-5	Decane	19.95	9400	JN
2. 002847-72-5	Decane, 4-methyl-	20.55	2200	JN
3. 006975-98-0	Decane, 2-methyl-	21.55	1800	JN
4. 013151-34-3	Decane, 3-methyl-	21.74	1900	JN
5. 001120-21-4	Undecane	22.39	15000	JN
6.	unknown hydrocarbon	22.59	3100	J
7.	unknown hydrocarbon	22.83	3500	J
8.	unknown hydrocarbon	23.45	2100	J
9.	unknown hydrocarbon	23.63	2900	J
10. 004292-92-6	Cyclohexane, pentyl-	23.69	1900	JN
11.	unknown hydrocarbon	24.05	3000	J
12. 000112-40-3	Dodecane	24.63	5300	JN
13. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	24.81	2500	JN
14.	unknown hydrocarbon	26.16	1900	J
15. 000629-50-5	Tridecane	26.61	2200	JN

EPA SAMPLE NO.

GP-10 19.8-20

Contract: SEARB Lab Name: CAS/ROCH SAS No.: SDG No.: 700222 Lab Code: 10145 Case No.: R3-19977 Lab Sample ID: 700230 1.0 Matrix: (soil/water) SOIL Sample wt/vol: 5.0 (g/ml) G Lab File ID: B3421.D Date Received: 01/02/04 Level: (low/med) LOW % Moisture: not dec. 12.2 Date Analyzed: 01/06/04 GC Column: DB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume (uL) Soil Aliquot Volume:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
74-83-9	Bromomethane	11	U
67-64-1	Acetone	12	
75-09-2	Methylene chloride	2	J
75-15-0	Carbon disulfide	11	U
78-93-3	2-Butanone	11	U
156-59-2	cis-1,2-Dichloroethene	19	
67-66-3	Chloroform	11_	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	20	
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	J
124-48-1	Dibromochloromethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
108-38-3/106-42-3	(m+p)Xylene	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
95-47-6	o-Xylene	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
78-87-5	1,2-Dichloropropane	11	U

EPA SAMPLE NO.

Lab Name:	CASIBO	СП			Contract	SEARB		GP-10 1	9.8-20
Lab Name.	CAS/RO	СП			Contract.	SEARD		L	
Lab Code:	10145	(Case No.:	R3-19977	SASN	lo.:	_ SD	G No.: <u>70</u>	0222
Matrix: (soil/	water)	SOIL			L	ab Sample	D: <u>7</u>	00230 1.0	
Sample wt/v	ol:	5.0	(g/ml)	<u>G</u>	L	ab File ID:	Е	3421.D	
Level: (low/	med)	LOW			D	ate Recei	ved: 0	1/02/04	
% Moisture:	not dec.	12.2			D	ate Analyz	zed: <u>0</u>	1/06/04	
GC Column:	DB-624	ID:	0.32 (m	ım)	D	ilution Fac	tor: <u>1</u>	.0	
Soil Extract	Volume _	1	(uL)		s	oil Aliquot	Volum	ne: <u>1</u>	(uL)
Number TIC	s found:	0			_	ATION UN D) <u>UG</u>			
CAS NO.		COMP	OUND			RT	EST	CONC.	Q

EPA SAMPLE NO.

RW-1-W

Lab Name:	CASIR	OCH		Contract:	SEARB			
Lab Code:	10145	Case	No.: R3-19875	SAS No	.:	SDG No.: 702133		
Matrix: (soil/v	water)	WATER		Lal	Sample II	D: 702133 1.0		
Sample wt/vo	ol:	5.0	(g/ml) ML	Lal	File ID:	B3569.D		
Level: (low/n	ned)	LOW		Da	te Receive	d: <u>01/14/04</u>		
% Moisture: ı	not dec.			Da	te Analyzed	d: 01/19/04		
GC Column:	DB-62	4 ID: <u>0.32</u>	(mm)	Dile	ution Facto	or: 1.0		
Soil Extract \	/olume		(uL)	Soi	I Aliquot V	olume:	(uL	

	CONCENTIO		
CAS NO.	COMPOUND (ug/L or ug/k	(g) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	14	
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	14	
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
78-93-3	2-Butanone	7	J
156-59-2	cis-1,2-Dichloroethene	33	~
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	33	5
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	8	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	υ
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108-38-3/106-42-3	(m+p)Xylene	1	J
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachioroethane	10	υ
95-47-6	o-Xylene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-35-4	1,1-Dichloroethene	10	U,
75-34-3	1,1-Dichloroethane	8	J '
56-23-5	Carbon tetrachloride	10	U
78-87-5	1,2-Dichloropropane	10	U

EPA SAMPLE NO.

		TENTA	ATIVELY I	DENTIFIE	D COMP	OL	INDS			
Lab Name:	CAS\RC	СН		·	Contract	i:	SEARB		RW-1-	·W
Lab Code:	10145	(Case No.:	R3-19875	SAS	No.	:	_ s	DG No.: 702	133
Matrix: (soil/v	water)	WATER	<u> </u>		L	.ab	Sample	ID:	702133 1.0	
Sample wt/vo	ol:	5.0	(g/ml)	ML	_ L	.ab	File ID:		B3569.D	
Level: (low/r	ned)	LOW				at	e Receiv	ed:	01/14/04	
% Moisture: r	not dec.					at	e Analyz	ed:	01/19/04	
GC Column:	DB-62	4_ ID:	0.32 (r	nm)		Dilu	tion Fac	tor:	1.0	
Soil Extract \	/olume .		(uL)		8	Soil	Aliquot	Volu	ıme:	(uL)
				CON	NCENTR	ΑT	ION UNI	TS:		
Number TICs	found:	0		(ug/l	L or ug/K	g) 	UG/	<u>L</u>	<u> </u>	
CAS NO.		СОМР	OUND				RT	ES	ST. CONC.	Q

EPA	SAMPL	E NO.
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Lab Name:	CAS\R	ОСН		Contract:	SEARB	RW-2-W]
Lab Code:	10145		Case No.: <u>R3-19875</u>	SAS No	.: s	DG No.: 702133	
Matrix: (soil/	water)	WATER	<u> </u>	Lat	Sample ID:	702134 100.0	
Sample wt/v	ol:	5.0	(g/ml) ML	Lat	File ID:	B3568.D	
Level: (low/i	med)	LOW	···	Dat	te Received:	01/14/04	
% Moisture:	not dec.			Dat	te Analyzed:	01/19/04	
GC Column:	DB-62	4 ID:	0.32 (mm)	Dilu	ution Factor:	1.6 100.0	
Soil Extract \	Volume		(uL)	Soi	l Aliquot Volu	ıme:	(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	440	J
75-00-3	Chloroethane	1000	U
74-83-9	Bromomethane	1000	U
67-64-1	Acetone	1000	U
75-09-2	Methylene chloride	1000	Ū
75-15-0	Carbon disulfide	1000	U
78-93-3	2-Butanone	1000	U
156-59-2	cis-1,2-Dichloroethene	15000	
67-66-3	Chloroform	1000	U
107-06-2	1,2-Dichloroethane	1000	U
71-55-6	1,1,1-Trichloroethane	200	J
71-43-2	Benzene	1000	U
79-01-6	Trichloroethene	8100	
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	Ų
124-48-1	Dibromochloromethane	1000	U
75-25-2	Bromoform 1000		Ū
108-10-1	4-Methyl-2-pentanone	1000	U
108-88-3	Toluene	1000	U
591-78-6	2-Hexanone	1000	Ų
127-18-4	Tetrachloroethene	1000	U
108-90-7	Chlorobenzene	1000	U
100-41-4	Ethylbenzene	1000	U
108-38-3/106-42-3	(m+p)Xylene	1000	U
100-42-5	Styrene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
95-47-6	o-Xylene	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
75-35-4	1,1-Dichloroethene	1000	U
75-34-3	1,1-Dichloroethane	120	J
56-23-5	Carbon tetrachloride	1000	U
78-87-5	1,2-Dichloropropane	1000	U

EPA	SAMPL	E NO.
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		IENIAI	IVELT IDENTIF	TED COMP	DONDS				İ
Lab Name:	CAS\RC	OCH		Contract	: SEAR	3	RW	/-2-W 	
Lab Code:	10145	Ca	se No.: <u>R3-198</u>	375 SAS N	No.:	SD	G No.: <u>7</u>	02133	
Matrix: (soil/v	water)	WATER	_	Ĺ	ab Samp	le ID: <u>7</u>	02134 10	0.00	
Sample wt/vo	ol:	5.0	(g/ml) ML		ab File IC): <u>E</u>	3568.D		
Level: (low/n	ned)	LOW	-		ate Rece	ived: <u>0</u>	1/14/04		
% Moisture: r	not dec.				ate Analy	/zed: <u>0</u>	1/19/04		
GC Column:	DB-62	4 ID: 0	32 (mm)		ilution Fa	ctor: 1	.0		
Soil Extract V	/olume		(uL)	S	Soil Alique	t Volum	ne:		(uL)
Number TICs	s found:	0	_	CONCENTRA					
CAS NO.		СОМРО	UND		RT	EST	CONC.		Q

EPA SAMPLE NO.

TRIP BLK

Lab Name:	CASIR	OCH		Contract:	SEARB	_ IIII DEK]
Lab Code:	10145		Case No.: R3-19875	SAS No	o.: 8	SDG No.: 702133	
Matrix: (soil/	water)	WATE	R	Lal	b Sample ID	702135 1.0	
Sample wt/v	ol:	5.0	(g/ml) ML	Lai	b File ID:	B3579.D	
Level: (low/	me d)	LOW		Da	te Received:	01/14/04	
% Moisture:	not dec.			Da	te Analyzed:	01/20/04	
GC Column:	DB-62	4 ID:	0.32 (mm)	Dil	ution Factor:	1.0	
Soil Extract	Volume		(uL)	So	il Aliquot Vol	lume:	(uL

CONCENTRATION UNITS:						
CAS NO.	COMPOUND (L	g/L or ug/Kg)	UG/L		Q	
74-87-3	Chloromethane			10	U	
75-01-4	Vinyl chloride			10	U	
75-00-3	Chloroethane			10	U	
74-83-9	Bromomethane			10	U	
67-64-1	Acetone			10	U	
75-09-2	Methylene chloride			10	Ū	
75-15-0	Carbon disulfide			10	U	
78-93-3	2-Butanone			10	U	
156-59-2	cis-1,2-Dichloroethen	е		10	U	
67-66-3	Chloroform			10	U	
107-06-2	1,2-Dichloroethane			10	U	
71-55-6	1,1,1-Trichloroethane)		10	υ	
71-43-2	Benzene			10	U	
79-01-6	Trichloroethene			10	U	
75-27-4	Bromodichlorometha	Bromodichloromethane		10	υ	
10061-01-5	cis-1,3-Dichloroprope	cis-1,3-Dichloropropene		10	U	
10061-02-6	trans-1,3-Dichloropro			10	U	
79-00-5	1,1,2-Trichloroethane)		10	ΰ	
124-48-1	Dibromochlorometha	ne		10	U	
75-25-2	Bromoform			10	Ū	
108-10-1	4-Methyl-2-pentanon	8		10	U	
108-88-3	Toluene			10	U	
591-78-6	2-Hexanone			10	υ	
127-18-4	Tetrachloroethene			10	U	
108-90-7	Chlorobenzene			10	U	
100-41-4	Ethylbenzene			10	U	
108-38-3/106-42-3	(m+p)Xylene			10	U	
100-42-5	Styrene			10	U	
79-34-5	1,1,2,2-Tetrachloroet	hane		10	U	
95-47-6	o-Xylene			10	U	
156-60-5	trans-1,2-Dichloroeth	ene		10	U	
75-35-4	1,1-Dichloroethene			10	Ū	
75-34-3	1,1-Dichloroethane			10	U	
56-23-5	Carbon tetrachloride			10	U	
78-87-5	1,2-Dichloropropane			10	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	CAS\RO	ОСН		Contra	ct:	SEARB	:	TF	RIP BI	LK
Lab Code:	10145		Case No.: R3-).:		DG No.:	7021	33
Matrix: (soil/	water)	WATER	<u> </u>		La	b Sample	D:	702135	1.0	
Sample wt/ve	ol:	5.0	(g/ml) <u>M</u> l	•	La	b File ID:		B3579.D)	
Level: (low/r	ned)	LOW			Da	te Recei	ved:	01/14/04	ļ	
% Moisture:	not dec.				Da	te Analyz	zed:	01/20/04	!	
GC Column:	DB-62	4 ID:	0.32 (mm)		Dil	ution Fac	ctor:	1.0		
Soil Extract \	/olume		(uL)		So	il Aliquot	Volu	me:		(uL)
				CONCENT	RAT	TION UN	ITS:			
Number TICs	found:	0		(ug/L or ug/l	(g)	UG	/L			
CAS NO.		COMPO	DUND			RT	ES	T. CONC	>.	Q

Data Validation Services

120 Cobble Creek Road P. O. Box 208 North Creek, NY 12853 Phone (518) 251-4429 Facsimile (518) 251-4428

LETTER OF TRANSMITTAL

TO:		Peter Smith
COMPANY	<i>(</i> :	Stantec
FROM:		Judy Harry
DATE:		06-26-06
ENCLOSE	D:	DUSR for the Buell Rd. site CAS Sub. No. R2631499
		Qualified report forms
		Associated invoice
Ship via:	US Express	UPS US Priority_X_Fed ExOther

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

June 26, 2006

Peter Smith Stantec 2250 Brighton Henrietta Town Line Rd. Rochester, NY 14623

RE: Validation Review of the Kennedy Valve site

CAS Sub. No. R2631499

Dear Mr. Smith:

Review has been completed for the data package generated by Columbia Analytical Services that pertains to samples collected5/01/06 and 5/0206 at the Buell Rd. site. Twelve aqueous samples and a field duplicate were processed for TCL volatiles. Two of the samples and a field duplicate were also processed by TCL semivolatiles. Trip and cooler blanks were also analyzed. Methodologies utilized are those of the USEPA CLP OLM04.2.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Case Narratives
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- * Method Compliance
- * Sample Result Verification

pg. 2/3

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, samples were primarily processed in compliance with protocol, and results are usable as reported, or usable with minor qualification due to sample matrix or to typical processing outliers.

A copy of the laboratory case narrative is attached to this text, and should be reviewed in conjunction with this report. Included with this report are red-ink qualified sample results forms.

The following text discusses quality issues of concern.

General

Blind field duplicate correlations for BU-MW10-GW were acceptable.

The laboratory reported abbreviated client IDs for some of the samples, which should have been suffixed with "-GW".

TCL Volatiles by USEPA CLP

Results for sample analytes initially reported with the "E" flag, indicating a response above the established linear range of the instrument, are to be derived from the dilution ("-DL") analyses of the samples. All other target analyte results can be derived from the initial analyses.

Holding times were met. Surrogate and internal standard responses were within guidelines. Calibrations standard responses were within laboratory and validation guidelines. Blanks show no contamination.

Matrix spikes of BU-MW16-GW show acceptable accuracy and precision. Blind field duplicate correlations for BU-MW10-GW were acceptable.

Although preserved with HCl, the pH of BU-MW3-GW was above 2 when checked at sample receipt. The sample was processed one day beyond the allowable holding time for unpreserved samples. The results for that sample are therefore qualified as estimated in value.

Some of the samples were processed initially at dilution due to high target analyte concentrations, and reporting limits for analytes reporting non-detection are therefore elevated in those samples.

Samples containing high concentrations are target analytes are processed at initial dilution, resulting in elevated reporting limits for non-detected compounds. This is in compliance with protocol requirements.

Semivolatile Analyses by USEPA CLP

The low level detection of n-nitrosodi-n-propylamine in BU-DUP-GW is edited to non-detection at the CRDL due to poor spectral quality. The response reported as that compound is an artifact of a hydrocarbon.

Calibrations standard responses were within laboratory and validation guidelines, with the exception of those for 2,4-dinitrophenol and atrazine (39%D and 52%D). Results for those two compounds in the samples are qualified as estimated.

Holding times were met. Surrogate and internal standard responses were within guidelines, although one of the samples and the field duplicate were diluted beyond that evaluation. Calibrations standard responses were within laboratory and validation guidelines. Blanks show no contamination.

Matrix spikes of BU-MW16-GW produced acceptable accuracy and precision (or elevated recoveries for analytes not detected in the sample.

The duplicate control samples show low recoveries for n-nitrosodi-n-propylamine (15% and 30%, below 41%). Results for this analyte in the samples are therefore qualified as estimated ("UJ"). Blind field duplicate correlations for BU-MW10-GW were acceptable.

Tentatively Identified Compounds (TICs) flagged as "B" or "A" by the laboratory are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components.

Some of the samples were processed initially at dilution due to high target analyte concentrations, and reporting limits for analytes reporting non-detection are therefore elevated in those samples.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected above the reported sample quantitation limit.

 However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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LABORATORY SAMPLE IDs AND CASE NARRATIVES

SDG 901536		BATCH (COMPLETE: yes		DATE REVI	SED:	<u></u>	
SUBMISSION		DISKETT	E REQUESTED: Y_x N		DATE DUE:	05/27/06		
CLIENT:	Stantec	DATE: 0	5/3/06		PROTOCO	L:ASPB		
	Karen Bunker		Y SEAL: PRESENT/ABSENT:		SHIPPING I	٧o.:		
PROJECT:		CHAIN C	F CUSTODY: PRESENT/ABSE	NT:	SUMMARY	PKG: Y	x N	
CAS JOB#	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE	DATE	Hq	%	REMARKS
				SAMPLED	RECEIVED			AMPLE CONDITIO
	BU-MW2-GW	water	OLM4.3, LS	5/1/06	5/2/06			
	BU-MW3-GW	water	OLM4.3, LS	5/2/06	5/2/06			
	BU-MW6-GW	water	OLM4.3, LS	5/1/06	5/2/06			
	BU-MW7-GW	water	OLM4.3, LS	5/1/06	5/2/06			
	BU-MW8-GW	water	OLM4.3, LS	5/1/06	5/2/06	<u> </u>		
901541	BU-MW9-GW	water	OLM4.3, LS	5/1/06	5/2/06			
901542	BU-MW10-GW	water	OLM4.3,OLM4.2 LS	5/1/06	5/2/06			
	BU-MW11-GW	water	OLM4.3, LS	5/1/06	5/2/06			
901544	BU-MW16-GW	water	OLM4.3,OLM4.2 LS QC	5/1/06	5/2/06			
901545	BU-MW17-GW	water	OLM4.3, LS	5/1/06	5/2/06			
901546	BU-RW1-GW	water	OLM4.3, LS	5/1/06	5/2/06			
901547	BU-RW2-GW	water	OLM4.3, LS	5/2/06	5/2/06			
901548	BU-DUP-GW	water	OLM4.3,OLM4.2 LS	5/1/06	5/2/06			
901549	Trip Blank	water	OLM4.3, LS	5/1/06	5/2/06			
901550	Cooler Blank	water	OLM4.3, LS	3	0.2.00			
					<u> </u>			
			VOC 0		T			
	·		SUCC	· · · · · · · · · · · · · · · · · · ·				
								
					 			
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L								

COLUMBIA ANALYTICAL SERVICES. INC.

Client:

Stantec Consulting Buell Automatics

Service Request No.:

R2631499 5/1-2/06

Project: Sample Matrix: Water

Date Sampled:

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier V. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Fourteen (14) water samples were received for analysis at Columbia Analytical Services on 5/2/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were received at a cooler temperature of 4°C, within guidelines.

Volatile Organics

Fourteen (14) water samples were analyzed using Method OLM4.3 for Volatile Organic compounds. Library Searches were run for each sample. One cooler blank was also analyzed with the batch and included in the report.

All BFB tuning criteria were met. The initial and continuing calibration were within limits.

All surrogate standard recoveries were acceptable.

All samples were run within the proper holding time for the method.

Site specific QC is provided for location BU-MW-16-GW (CAS Order #901544). All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were within QC limits. All Relative Percent Difference (RPD) calculations were acceptable.

Hits between the MDL and CRQL have been flagged as "J", estimated.

Hits above the calibration range of the standards are flagged as "E", estimated. The sample is then repeated at the appropriate dilution for the hit. All hits on the subsequent dilution are flagged as "D". Both sets of data are included in the report. The suffix "DL" is added to the location ID for the dilution.

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for VOC analysis. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

The Laboratory Method Blanks, Trip Blank and Cooler Blank associated with these samples were free of contamination.

Location BU-MW3-GW (CAS Order # 901537) was found to be unpreserved at a pH of >2. All vials are checked after analysis in order to maintain the integrity of the sample. This has also been noted on the Cooler Receipt and Preservation Check Form included in the report. The sample was analyzed on the 8th day from sample collection and receipt. All other vials were found to be preserved to a pH of <2.

No other problems were encountered during the analysis of these samples.

Page 2 R2631499 Continued

SemiVolatile Organics

Three (3) water samples were analyzed for using method OLM4.3 for Semivolatile Organic compounds.

All DFTPP tuning criteria were met. The initial and continuing calibration criteria were within limits.

All Surrogate recoveries were acceptable except for BU-MW16-GW and BU-MW16-GWMS (CAS Order # 901544) which were outside limits for Terphenol-d14. The sample was not repeated since the sample and QC confirmed each other. The recoveries have been flagged as "*". BU-DUP-GW and BU-MW10-GW surrogates were diluted out. The recoveries have been flagged as "D".

All samples were extracted and analyzed within proper method holding times.

Site QC is included in the report package for location BU-MW16-GW (CAS Order # 901544). All Matrix Spike (MS) and Blank Spike (BS) and Matrix Spike Duplicate (MSD) and Blank Spike Duplicate (BSD) recoveries were within QC limits except the following:

N-Nitroso-Di-n-propylamine: BS/BSD out low 4-Nitrophenol: MS/MSD, BS/BSD out high Pentachlorophenol: MSD & BSD out high

The Relative Percent Difference (RPD) calculation for N-Nitroso-Di-n-propylamine was also outside QC limits. All exceedences have been flagged as "*".

Library Searches against the NBS/EPA library were conducted on all samples, reanalysis, and blanks for SVOC analysis. The 30 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

Hits between the MDL and CRQL have been flagged as "J", estimated.

All Laboratory Method Blank was free from contamination of target compounds.

No other problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both rechnically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or his designee, as verified by the following signature.

Approved by Quen Bunker Date 6/7

QUALIFIED REPORT FORMS

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	DULANA

EPA SAMPLE NO.

Lab Name:	CAS-RC	OCH			Contract:	STANTEC	_		
Lab Code:	10145		Case No.:	R6-31499	SAS No	.:	SDG No.:	901536	
Matrix: (soil/	water)	WATER	<u>२</u>		Lat	Sample ID	: <u>901536</u>	20.0	į
Sample wt/v	ol:	5.0	(g/ml)	ML	Lab	File ID:	B7285.)	İ
Level: (low/r	med)	LOW			Dat	te Received	: 05/02/0	6	
% Moisture:	not dec.				Dat	te Analyzed:	: <u>05/10/0</u> 6	6	
GC Column:	DB624	ID:	<u>0.32</u> (m	nm)	Dilu	ution Factor	: 1.0 20.	c Xa5	130/00
Soil Extract \	Volume		(uL)		Soi	l Aliquot Vo	lume:		(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	200	U
74-87-3	Chloromethane	200	C
75-01-4	Vinyl chloride	560	-
74-83-9	Bromomethane	200	U
75-00-3	Chloroethane	200	C
75-69-4	Trichlorofluoromethane	200	C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	200	C
67-64-1	Acetone	200	C
75-35-4	1,1-Dichloroethene	200	C
79-20-9	Methyl Acetate	200	U
75-09-2	Methylene chloride	200	U
75-15-0	Carbon disulfide	200	U
1634-04-4	Methyl tert-Butyl Ether	200	· U
156-60-5	trans-1,2-Dichloroethene	26	J
75-34-3	1,1-Dichloroethane	200	Ū
78-93-3	2-Butanone	200	U
156-59-2	cis-1,2-Dichloroethene	3800	
67-66-3	Chloroform	200	U
110-82-7	Cyclohexane	200	Ū
107-06-2	1,2-Dichloroethane	200	Ū
71-55-6	1,1,1-Trichloroethane	200	Ū
56-23-5	Carbon tetrachloride	200	Ü
71-43-2	Benzene	200	ŭ
79-01-6	Trichloroethene	240	
108-87-2	Methylcyclohexane	200	U
78-87-5	1,2-Dichloropropane	200	Ü
75-27-4	Bromodichloromethane	200	Ü
10061-01-5	cis-1,3-Dichloropropene	200	Ü
10061-02-6	trans-1,3-Dichloropropene	200	Ü
79-00-5	1,1,2-Trichloroethane	200	Ü
124-48-1	Dibromochloromethane	200	U
75-25-2	Bromoform	200	Ü
108-10-1	4-Methyl-2-pentanone	200	U
108-88-3	Toluene	200	U
591-78-6	2-Hexanone	200	Ü
127-18-4	Tetrachloroethene	200	U
106-93-4	1,2-Dibromoethane	200	U
108-90-7	Chlorobenzene	200	U
100-30-7	Ethylbenzene		U
100-41-4	Luiyibelizelle	200	U

EPA SAMPLE NO.

ab Name:	CAS-RO	OCH			Contract:	STANTE			
.ab Code:	10145		Case No.:	R6-31499	SAS No	o.:	SDG No.:	901536	
//atrix: (soil/	water)	WATER	<u> </u>		La	b Sample II	D: <u>901536</u>	20.0	
Sample wt/v	ol:	5.0	(g/ml)	ML	La	b File ID:	B7285.	<u>D</u>	
evel: (low/	med)	LOW			Da	nte Receive	d: <u>05/02/0</u>	6	•
% Moisture:	not dec.				Da	ite Analyze	d: <u>05/10/0</u>	6	
GC Column:	DB624	4_ ID:	<u>0.32</u> (n	nm)	Dil	lution Facto	or: <u>1.0 20.</u>	i Kas	/30/02
Soil Extract	Volume		(uL)		So	oil Aliquot V	olume:		(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
1330-20-7	(m+p)Xylene	200	Ú
95-47-6	o-Xylene	200	U
100-42-5	Styrene	200	U
98-82-8	Isopropylbenzene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	.200	U
95-50-1	1,2-Dichlorobenzene	200	U
96-12-8	1,2-Dibromo-3-chloropropane	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	CAS-RC	СН			Contrac	ct:	STANTE	<u>C</u>	BU	-MW2	
Lab Code:	10145	Cas	e No.: R6-3	1499	SAS	No	.:	st	OG No.:	90153	6
Matrix: (soil/	water)	WATER				Lat	Sample	ID:	901536 2	0.0	_
Sample wt/vo	ol:	5.0	(g/ml) ML			Lat	File ID:		B7285.D		_
Level: (low/r	ned)	LOW				Dat	te Receiv	ed:	05/02/06		_
% Moisture:	not dec.					Dat	te Analyze	ed:	05/10/06		_
GC Column:	DB624	ID: 0.3	2 (mm)			Dilı	ution Fact	or:	1.0 20.0	Kas	/30/0c
Soil Extract \	Volume .		_ (uL)			Soi	Aliquot	/olu	me:		(uL)
				CÓN	CENTF	RAT	ION UNI	TS:			
Number TIC:	s found:	0	-	(ug/L	or ug/l	Kg)	UG/I				
CAS NO.		COMPOU	ND				RT	ES	T. CONC		Q

EPA SAMPLE NO.

BU-MW3

Lab Name:	CAS-RC			Contract. STANTEC		
Lab Code:	10145		Case No.: R6-31499	SAS No.:	SDG No.: 901536	<u>; </u>
Matrix: (soil/v	water)	WATE	R	Lab Sample ID	: <u>901537 1.0</u>	. !
Sample wt/ve	ol:	5.0	(g/ml) ML	_ Lab File ID:	B7280.D	
Level: (low/r	ned)	LOW		Date Received	: 05/02/06	
% Moisture:	not dec.			Date Analyzed	: 05/10/06	
GC Column:	DB624	ID:	<u>0.32</u> (mm)	Dilution Factor	: <u>1.0</u>	
Soil Extract \	/olume		(uL)	Soil Aliquot Vo	lume:	(uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	UJ
74-87-3	Chloromethane	_10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
79-20-9	Methyl Acetate	10	υ
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-Butyl Ether	6	J
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
110-82-7	Cyclohexane	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	Ü
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	Ü
100-41-4	Ethylbenzene	10	U\V

EPA SAMPLE NO.

BU-MW3

_ab Name:	CAS-RO	OCH		Contract:	STANTEC		
_ab Code:	10145	Case No.: _	R6-31499	SAS No	.: \$	SDG No.: 901	536
Matrix: (soil/v	water)	WATER		Lab	Sample ID:	901537 1.0	
Sample wt/vo	ol:	5.0 (g/ml)	ML	Lab	File ID:	B7280.D	
_evel: (low/r	ned)	LOW		Dat	e Received:	05/02/06	·
% Moisture: ı	not dec.			Dat	e Analyzed:	05/10/06	
GC Column:	DB624	ID: <u>0.32</u> (m	m)	Dilu	tion Factor:	1.0	
Soil Extract \	/olume	(uL)		Soi	l Aliquot Vol	lume:	(uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
1330-20-7	(m+p)Xylene	10	UJ
95-47-6	o-Xylene	10	UÏ
100-42-5	Styrene	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	<u> </u>

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: CAS-	-ROCH	Contract: S	STANTEC	BU-MW3	- 1
Lab Code: 1014				G No.: 901536	
Matrix: (soil/water)	WATER	Lab S	Sample ID: 9	901537 1.0	
Sample wt/vol:	5.0 (g/ml) ML	Lab F	File ID:	B7280.D	
Level: (low/med)	LOW	Date	Received: 0	05/02/06	
% Moisture: not de	с	Date	Analyzed: 0	05/10/06	
GC Column: DB	624 ID: <u>0.32</u> (mm)	Diluti	ion Factor: _1	1.0	
Soil Extract Volum	e (uL)	Soil A	Aliquot Volun	ne:	(uL)
		CONCENTRATIO	ON UNITS:		
Number TICs found	d: <u>0</u>	(ug/L or ug/Kg)	UG/L		
CAS NO.	COMPOUND		RT EST	T. CONC.	Q

	D11 10140	
1	BU-MW6	

EPA SAMPLE NO.

Lab Name:	CAS-RC	CH			Contract:	STANTEC		
Lab Code:	10145		Case No.:	R6-31499	SAS No).:	SDG No.: 90153	6
Matrix: (soil/\	water)	WATER	₹		Lal	o Sample ID	: <u>901538 20.0</u>	_
Sample wt/v	ol:	5.0	(g/ml)	<u>ML</u>	Lal	b File ID:	B7286.D	-
Level: (low/r	med)	LOW			Da	te Received	: 05/02/06	_
% Moisture:	not dec.				Da	te Analyzed	: 05/10/06	_
GC Column:	DB624	ID:	<u>0.32</u> (r	nm)	Dil	ution Factor	: 1.0 20.0 XA	5/30 lov
Soil Extract \	Volume		(uL)		So	il Aliquot Vo	lume:	(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	200	U
74-87-3	Chloromethane	200	U
75-01-4	Vinyl chloride	50	J
74-83-9	Bromomethane	200	U
75-00-3	Chloroethane	200	U
75-69-4	Trichlorofluoromethane	200	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	200	U
67-64-1	Acetone	200	U
75-35-4	1,1-Dichloroethene	200	U
79-20-9	Methyl Acetate	200	U
75-09-2	Methylene chloride	200	U
75-15-0	Carbon disulfide	200	U
1634-04-4	Methyl tert-Butyl Ether	200	J
156-60-5	trans-1,2-Dichloroethene	200	J
75-34-3	1,1-Dichloroethane	200	U
78-93-3	2-Butanone	200	J
156-59-2	cis-1,2-Dichloroethene	720	
67-66-3	Chloroform	200	
110-82-7	Cyclohexane	200	U
107-06-2	1,2-Dichloroethane	200	U
71-55-6	1,1,1-Trichloroethane	25	7
56-23-5	Carbon tetrachloride	200	U
71-43-2	Benzene	200	C
79-01-6	Trichloroethene	2400	
108-87-2	Methylcyclohexane	200	C
78-87-5	1,2-Dichloropropane	200	U
75-27-4	Bromodichloromethane	200	U
10061-01-5	cis-1,3-Dichloropropene	200	U
10061-02-6	trans-1,3-Dichloropropene	200	U
79-00-5	1,1,2-Trichloroethane	200	U
124-48-1	Dibromochloromethane	200	U
75-25-2	Bromoform	200	U
108-10-1	4-Methyl-2-pentanone	200	Ū
108-88-3	Toluene	200	Ū
591-78-6	2-Hexanone	200	Ü
127-18-4	Tetrachloroethene	200	- U
106-93-4	1,2-Dibromoethane	200	U
108-90-7	Chlorobenzene	200	U
100-41-4	Ethylbenzene	200	U

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D	J-1411	140	

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EPA SAMPLE NO.

							l B	U-MW6	- 1
Lab Name:	CAS-RO	CH			Contract:	STANTEC	_		
Lab Code:	10145	Cas	e No.: R6	-31499	SAS No	.:	SDG No.:	901536	<u> </u>
Matrix: (soil/w	vater)	WATER			Lat	Sample ID	: <u>901538</u>	20.0	
Sample wt/vo	ol:	5.0	(g/ml) M	L.	Lat	File ID:	B7286.)	İ
Level: (low/n	ned)	LOW			Da	te Received	: 05/02/06	3	
% Moisture: r	ot dec.				Dat	te Analyzed	: 05/10/00	3	
GC Column:	DB624	ID: <u>0.3</u>	<u>2</u> (mm)		Dil	ution Factor	: 10 20.	0 Ka51	30 /0
Soil Extract V	olume _		_ (uL)		Soi	il Aliquot Vo	lume:		(uL)
				CON		TION UNITS	٠.		
CAS NO		COMPO	DUND			UG/L	·	Q	
1330-2	0-7_	(m+p)	Xylene		· · · · · · · · · · · · · · · · · · ·		200	U	
95-47-6	6	o-Xyle	ne				200	U	7
100-42	-5	Styren	ne				200	U	
98-82-8	8	Isopro	pylbenzen	<u></u>			200	U	7
79-34-	5		2-Tetrachlo		ne		200	Ū	7
541-73	-1	1,3-Di	chlorobenz	ene		1	200	U	7
106-46	-7	1,4-Di	chlorobenz	ene			200	U	٦
95-50-	1	1,2-Di	chlorobenz	ene			200	υ	7

1,2-Dibromo-3-chloropropane

1,2,4-Trichlorobenzene

96-12-8

120-82-1

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	CAS-RC	OCH		(Contract:	STANT	EC	В	U-MW	6
	10145		se No.: R6-3		SAS N			G No.:	90153	 36
Matrix: (soil/	water)	WATER			La	b Sample	_ : ID: _9	01538	20.0	
Sample wt/ve	ol:	5.0	(g/ml) ML		La	b File ID:	E	37286.C)	_
Level: (low/r	ned)	LOW	_		Da	ate Receiv	ved: C	05/02/0	3	
% Moisture:	not dec.				Da	ate Analyz	zed: C	05/10/06	3	_
GC Column:	DB624	ID: <u>0.</u>	32 (mm)		Di	lution Fac	tor: 1	10 20.	> Kan	<u> 5</u> 30 01
Soil Extract \	Volume		_ (uL)		Sc	oil Aliquot	Volun	ne:		_ (uL)
				CON	CENTRA	TION UN	ITS:			
Number TIC:	s found:	0	_	(ug/L	or ug/Kg) <u>u</u> G	/L	 _		
CAS NO.		COMPOL	IND			RT	EST	r. cond	5 .	Q

EF	Ά	SA	MP	LE	NO.

Lab Name:	CAS-RC	СН		Contract:	STANTEC	BU-MW7	1
Lab Hame.	0/10/10					, 	
Lab Code:	10145	(Case No.: <u>R6-31499</u>	SAS No).: SI	DG No.: 901536	_
Matrix: (soil/v	water)	WATER	2	Lal	Sample ID:	901539 1.0	
Sample wt/v	ol:	5.0	(g/ml) ML	Lal	b File ID:	B7281.D	
Level: (low/r	ned)	LOW		Da	te Received:	05/02/06	
% Moisture:	not dec.			Da	te Analyzed:	05/10/06	
GC Column:	DB624	ID:	0.32 (mm)	Dil	ution Factor:	1.0	
Soil Extract \	Volume _		(uL)	So	il Aliquot Volu	me: (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	Ū
75-01-4	Vinyl chloride	2	J
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	20	
67-66-3	Chloroform	10	U
110-82-7	Cyclohexane	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
56-23-5	Carbon tetrachloride	10	Ū
71-43-2	Benzene	10	Ü
79-01-6	Trichloroethene	10	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ü
10061-01-5	cis-1,3-Dichloropropene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ü
124-48-1	Dibromochloromethane	10	Ū
75-25-2	Bromoform	10	Ü
108-10-1	4-Methyl-2-pentanone	10	Ü
108-88-3	Toluene	10	Ü
591-78-6	2-Hexanone	10	Ü
127-18-4	Tetrachloroethene	2	J
106-93-4	1,2-Dibromoethane	10	Ü
108-90-7	Chlorobenzene	10	Ü
100-30-7	Ethylbenzene	10	Ü

EPA	SAMPLE	NO.
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Lab Name:	CAS-RC	OCH	Contract: S	TANTEC	BU	-MW7	
	10145				G No.:	901536	1
Matrix: (soil/		WATER	•	Sample ID: 9	-		i
Sample wt/ve	ol:	5.0 (g/ml) MI		_	37281.D		1
Level: (low/r	ned)	LOW	Date	Received: 0	5/02/06		
% Moisture:	not dec.	•	Date .	Analyzed: 0	5/10/06		
GC Column:	DB624	ID: <u>0.32</u> (mm)	Dilutio	on Factor: 1	.0		
Soil Extract \	/olume _	(uL)	Soil A	liquot Volum	ne:		(uL)
			CONCENTRATIO	N UNITS:			
CAS NO).	COMPOUND	(ug/L or ug/Kg)	UG/L		Q	
1330-2	20-7	(m+p)Xylene			10	U	7
95-47-	6	o-Xylene			10	U	
100-42		Styrene			10	U	7
98-82-		Isopropylbenzene			10	U	
79-34-		1,1,2,2-Tetrachlo			10	U	_]
541-73		1,3-Dichlorobenz			10	U	
106-46		1,4-Dichlorobenz			10	U	
95-50-	<u>1</u>	1,2-Dichlorobenz	<u>ene</u>		10	U	

1,2-Dibromo-3-chloropropane

1,2,4-Trichlorobenzene

96-12-8

120-82-1

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: CAS-	ROCH	Contract:	STANT	EC BU-N	/W7
Lab Code: 1014	5 Case No.: R	6-31499 SAS No	o.:	SDG No.: 90	1536
Matrix: (soil/water)	WATER	La	b Sample	e ID: <u>901539 1.0</u>	
Sample wt/vol:	5.0 (g/ml) <u>N</u>	<u>/IL</u> La	b File ID:	B7281.D	<u> </u>
Level: (low/med)	LOW	Da	ite Recei	ved: <u>05/02/06</u>	
% Moisture: not de	c	Da	ite Analy:	zed: <u>05/10/06</u>	 -
GC Column: DB6	624 ID: 0.32 (mm	n) Dil	lution Fac	ctor: 1.0	
Soil Extract Volume	e (uL)	So	il Aliquot	Volume:	(uL)
Number TICs found	d: <u> </u>	CONCENTRA (ug/L or ug/Kg)			
CAS NO.	COMPOUND		RT	EST. CONC.	Q

EPA SAMPLE NO.

Lab Name:	CAS-RC	осн			Contract:	STANTEC		U-MW8	
Lab Code:	10145	Cas	se No.:	R6-31499	SAS No	.;;	SDG No.:	901536	<u> </u>
Matrix: (soil/	water)	WATER			Lat	Sample ID	: <u>901540</u>	20.0	1
Sample wt/v	ol:	5.0	(g/ml)	ML	Lat	File ID:	B7287.0)	l
Level: (low/ı	med)	LOW			Da	te Received	: 05/02/06	3	
% Moisture:	not dec.		 -		Dat	te Analyzed	: 05/10/06	<u>}</u>	
GC Column:	DB624	ID: <u>0.3</u>	<u>12</u> (n	nm)	Dile	ution Factor	1.0 20.	o kag	5/30/00
Soil Extract \	Volume .		_ (uL)		Soi	il Aliquot Vo	lume:		(uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	200	U
74-87-3	Chloromethane	200	5
75-01-4	Vinyl chloride	150	J
74-83-9	Bromomethane	200	دا
75-00-3	Chloroethane	200	C
75-69-4	Trichlorofluoromethane	200	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	200	U
67-64-1	Acetone	200	U
75-35-4	1,1-Dichloroethene	200	U
79-20-9	Methyl Acetate	200	U
75-09-2	Methylene chloride	200	Ū
75-15-0	Carbon disulfide	200	U
1634-04-4	Methyl tert-Butyl Ether	200	U
156-60-5	trans-1,2-Dichloroethene	200	U
75-34-3	1,1-Dichloroethane	14	J
78-93-3	2-Butanone	200	U
156-59-2	cis-1,2-Dichloroethene	3300	
67-66-3	Chloroform	200	U
110-82-7	Cyclohexane	200	J
107-06-2	1,2-Dichloroethane	200	U
71-55-6	1,1,1-Trichloroethane	200	J
56-23-5	Carbon tetrachloride	200	دا
71-43-2	Benzene	200	U
79-01-6	Trichloroethene	1700	
108-87-2	Methylcyclohexane	200	U
78-87-5	1,2-Dichloropropane	200	U
75-27-4	Bromodichloromethane	200	J
10061-01-5	cis-1,3-Dichloropropene	200	U
10061-02-6	trans-1,3-Dichloropropene	200	כ
79-00-5	1,1,2-Trichloroethane	200	U
124-48-1	Dibromochloromethane	200	U
75-25-2	Bromoform	200	U
108-10-1	4-Methyl-2-pentanone	200	Ü
108-88-3	Toluene	200	Ū
591-78-6	2-Hexanone	200	Ū
127-18-4	Tetrachloroethene	200	Ū
106-93-4	1,2-Dibromoethane	200	Ü
108-90-7	Chlorobenzene	200	Ü
100-41-4	Ethylbenzene	200	Ü

	V	/OLA IIL	E ORGANIC	S ANAL	1919 DATA	SHEET			
Lab Name:	CAS-RC	СН			Contract:	STANTEC	В	U-MW8	
Lab Code:	10145		Case No.: F	R6-31499	SAS No	.: s	DG No.:	901536	<u> </u>
Matrix: (soil/w	vater)	WATE	₹		Lai	Sample ID:	901540	20.0	
Sample wt/vo	ol:	5.0	(g/ml)	ML	Lai	File ID:	B7287.0)	l
Level: (low/n	ned)	LOW			Da	te Received:	05/02/0	3	
% Moisture: r	not dec.		· · · · · · · · · · · · · · · · · · ·		Da	te Analyzed:	05/10/06	3	
GC Column:	DB624	ID:	0.32 (mr	n)	Dile	ution Factor:	1,0 20.0	Vas	/30 PO
Soil Extract V	olume _		(uL)		Soi	l Aliquot Volu	ıme:		(uL)

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND (ug/L	or ug/Kg) <u>L</u>	JG/L	Q
1330-20-7	(m+p)Xylene		200	U
95-47-6	o-Xylene		200	J
100-42-5	Styrene		200	U
98-82-8	Isopropylbenzene		200	U
79-34-5	1,1,2,2-Tetrachloroethane	e	200	U
541-73-1	1,3-Dichlorobenzene		200	U
106-46-7	1,4-Dichlorobenzene		200	U
95-50-1	1,2-Dichlorobenzene		200	U
96-12-8	1,2-Dibromo-3-chloropror	pane	200	U
120-82-1	1,2,4-Trichlorobenzene		200	U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	CAS-RC	СН			Contract:	STANT	EC		/٧8
Lab Code:	10145	Cas	e No.:	R6-31499	SAS No	o.:	SDG	No.: 901	536
Matrix: (soil/	water)	WATER			La	b Sample	e ID: 901	540 20.0	
Sample wt/ve	ol:	5.0	(g/ml)	ML	La	b File ID	: <u>B7</u> 2	287.D	
Level: (low/r	ned)	LOW			Da	ite Recei	ved: <u>05/</u>	02/06	
% Moisture:	not dec.				Da	ite Analy	zed: <u>05/</u>	10/06	
GC Column:	DB624	ID: <u>0.3</u>	<u>2</u> (n	nm)	Dil	ution Fa	ctor: <u>1,0</u>	20.0 Ya	5/30/00
Soil Extract \	Volume		_ (uL)		So	il Aliquot	Volume:		(uL)
					NCENTRAT L or ug/Kg)				
Number TIC:	s found:	0	-					•	
CAS NO.		COMPOU	ND	·		RT	EST. 0	CONC.	Q

EPA SAMPLE NO.

BU-MW9 Lab Name: CAS-ROCH Contract: STANTEC 10145 SAS No.: SDG No.: 901536 Case No.: R6-31499 Lab Code: WATER Lab Sample ID: 901541 2.0 Matrix: (soil/water) 5.0 Sample wt/vol: (g/ml) ML Lab File ID: B7283.D LOW Date Received: 05/02/06 Level: (low/med) Date Analyzed: 05/10/06 % Moisture: not dec. GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0 2.0 Kar5/30 De Soil Aliquot Volume: (uL) Soil Extract Volume

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	Ū
75-01-4	Vinyl chloride	53	
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	5	J
75-69-4	Trichlorofluoromethane	20	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	20	U
67-64-1	Acetone	9	7
75-35-4	1,1-Dichloroethene	20	U
79-20-9	Methyl Acetate	20	U
75-09-2	Methylene chloride	20	U
75-15-0	Carbon disulfide	20	U
1634-04-4	Methyl tert-Butyl Ether	20	U
156-60-5	trans-1,2-Dichloroethene	2	J
75-34-3	1,1-Dichloroethane	170	
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	250	
67-66-3	Chloroform	20	U
110-82-7	Cyclohexane	20	U
107-06-2	1,2-Dichloroethane	20	U
71-55-6	1,1,1-Trichloroethane	9	J
56-23-5	Carbon tetrachloride	20	U
71-43-2	Benzene	20	U
79-01-6	Trichloroethene	21	
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
124-48-1	Dibromochloromethane	20	Ü
75-25-2	Bromoform	20	Ū
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	20	Ū
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	Ū
106-93-4	1,2-Dibromoethane	20	Ū
108-90-7	Chlorobenzene	20	Ū
100-41-4	Ethylbenzene	20	Ü

EPA SAMPLE NO.

Lab Name:	CAS-RC	ОСН		Contract:	STANTEC	BU-MW9
Lab Code:	10145		Case No.: R6-31499	SAS No	o.: S	DG No.: 901536
Matrix: (soil/	water)	WATE	₹	La	b Sample ID:	901541 2.0
Sample wt/vo	ol:	5.0	(g/ml) ML	La	b File ID:	B7283.D
Level: (low/r	ned)	LOW		Da	te Received:	05/02/06
% Moisture:	not dec.			Da	te Analyzed:	05/10/06
GC Column:	DB624	ID:	0.32 (mm)	Dil	ution Factor:	1.0 2.0 Kar 5/30 /02
Soil Extract \	/olume _		(uL)	So	il Aliquot Volu	ıme: (uL)

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
1330-20-7	(m+p)Xylene		20	U
95-47-6	o-Xylene		20	Ü
100-42-5	Styrene		20	Ū
98-82-8	Isopropylbenzene	20	Ū	
79-34-5	1,1,2,2-Tetrachlo	20	Ü	
541-73-1	1,3-Dichlorobenz	ene	20	Ū
106-46-7	1,4-Dichlorobenz	ene	20	U
95-50-1	1,2-Dichlorobenz	ene	20	Ü
96-12-8	1,2-Dibromo-3-ch	loropropane	20	Ü
120-82-1	1,2,4-Trichlorobe	20	Ü	

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

NALYSIS DATA SHEET EPA SAMPLE NO.

Lab Name:	CAS-RC	ОСН			Contra	ct:	STANTE	EC_	Bu-l	MW9	_]
Lab Code:	10145	Cas	se No.: R6-3	1499	SAS	No	.:	_ sı	DG No.: 90	1536	
Matrix: (soil/	water)	WATER				Lat	Sample	ID:	901541 2.0		
Sample wt/v	ol:	5.0	(g/ml) ML			Lat	File ID:		B7283.D		
Level: (low/r	med)	LOW				Da	te Receiv	ed:	05/02/06		
% Moisture:	not dec.					Da	te Analyz	ed:	05/10/06		
GC Column:	DB624	ID: 0.3	2 (mm)			Dile	ution Fac	tor:	1.0 2.0	Ka5/31	عداً ت
Soil Extract \	Volume .	 	_ (uL)			Soi	il Aliquot	Volu	me:		(uL)
				CON	CENT	RAT	TION UNI	TS:			
Number TIC:	s found:	0	_ 	(ug/L	or ug/	Kg)	UG/	<u>L</u>			
CAS NO.		COMPOU	ND				RT	ES	T. CONC.	Q	

EPA SAMPLE NO.

BU-MW10

Lab Name:	CAS-RC	CH			Contract:	STANTEC			┛
Lab Code:	10145		Case No.:	R6-31499	SAS No	.:	SDG No.:	901536	
Matrix: (soil/\	water)	WATE	<u>R</u>		Lai	Sample ID	901542	20.0	
Sample wt/vo	ol:	5.0	(g/ml)	ML	Lal	File ID:	B7289.0	<u> </u>	
Level: (low/r	ned)	LOW			Da	te Received	i: <u>05/02/06</u>	<u> </u>	
% Moisture:	not dec.				Da	te Analyzed	: 05/10/06	<u> </u>	
GC Column:	DB624	ID:	<u>0.32</u> (n	nm)	Dile	ution Factor	: 1.0 20.	0 Ka5/30	la
Soil Extract \	Volume		(uL)		Soi	il Aliquot Vo	olume:	(u	ıL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	200	U
74-87-3	Chloromethane	200	U
75-01-4	Vinyl chloride	910	
74-83-9	Bromomethane	200	U
75-00-3	Chloroethane	200	Ū
75-69-4	Trichlorofluoromethane	200	U
76-13-1	-1,1,2-Trichloro-1,2,2-Trifluoroeth	200	U
67-64-1	Acetone	200	U
75-35-4	1,1-Dichloroethene	200	U
79-20-9	Methyl Acetate	200	_
75-09-2	Methylene chloride	200	د
75-15-0	Carbon disulfide	200	J
1634-04-4	Methyl tert-Butyl Ether	200	U
156-60-5	trans-1,2-Dichloroethene	27	J
75-34-3	1,1-Dichloroethane	330	
78-93-3	2-Butanone	200	U
156-59-2	cis-1,2-Dichloroethene	3000	
67-66-3	Chloroform	200	U
110-82-7	Cyclohexane	200	_
107-06-2	1,2-Dichloroethane	200	U
71-55-6	1,1,1-Trichloroethane	200	U
56-23-5	Carbon tetrachloride	200	U
71-43-2	Benzene	200	Ú
79-01-6	Trichloroethene	160	J
108-87-2	Methylcyclohexane	200	U
78-87-5	1,2-Dichloropropane	200	U
75-27-4	Bromodichloromethane	200	U
10061-01-5	cis-1,3-Dichloropropene	200	U
10061-02-6	trans-1,3-Dichloropropene	200	U
79-00-5	1,1,2-Trichloroethane	200	Ū
124-48-1	Dibromochloromethane	200	Ū
75-25-2	Bromoform	200	Ū
108-10-1	4-Methyl-2-pentanone	200	Ū
108-88-3	Toluene	200	Ū
591-78-6	2-Hexanone	200	<u>U</u>
127-18-4	Tetrachloroethene	200	Ū
106-93-4	1,2-Dibromoethane	200	Ü
108-90-7	Chlorobenzene	200	Ü
100-41-4	Ethylbenzene	200	

EPA SAMPLE NO.

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						0744:750	BU	-MW10	ł
Lab Name:	CAS-RC	СН			Contract:	STANTEC	_		٠ لــ
Lab Code:	10145	Cas	se No.:	R6-31499	SAS No	o.: s	SDG No.:	901536	_
Matrix: (soil/w	vater)	WATER	_		La	b Sample ID	901542 2	20.0	
Sample wt/vo	ol:	5.0	(g/ml)	ML	La	b File ID:	B7289.D	<u> </u>	
Level: (low/m	ned)	LOW			Da	ite Received:	05/02/06		
% Moisture: n	ot dec.				Da	ite Analyzed:	05/10/06		
GC Column:	DB624	ID: <u>0.3</u>	3 <u>2</u> (n	nm)	Di	lution Factor:	1.0 20.0	Xas/	30 00
Soil Extract V	olume _		(uL)		Sc	il Aliquot Vol	ume:	(uL)
				CO	NCENTRA	TION UNITS	•		
CAS NO		COMPO	DUND	(ug/	L or ug/Kg	UG/L		Q	
1330-2	0-7	(m+p)	Xylene				200	U	7
95-47-6		o-Xyle					200	U	1
100-42	-5	Styrer	ne				200	U	1
98-82-8	3	Isopro	pylben:	zene			200	U	1
79-34-	5	1,1,2,	2-Tetra	chloroetha	ne		200	U]
541-73	-1	1,3-Di	chlorob	enzene			200	U]
106-46	-7	1,4-Di	chlorob	enzene			200	U	1

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,2-Dibromo-3-chloropropane

95-50-1

96-12-8

120-82-1

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPL	E NO.
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								l Rii.	-MW10) (
Lab Name:	CAS-RO	OCH			Contract	STANT	EC			
Lab Code:	10145	Ca	se No.: <u>R6-</u>	31499	SAS	lo.:	_ SC	G No.:	901536	3
Matrix: (soil/	water)	WATER	_		L	ab Sampl	e ID: <u>!</u>	901542 2	0.0	
Sample wt/v	ol:	5.0	(g/ml) ML		L	ab File ID	: <u>I</u>	B7289.D		
Level: (low/s	med)	LOW	_		D	ate Receí	ved: <u>(</u>	05/02/06		
% Moisture: not dec.					D	ate Analy	zed: _	05/10/06		
GC Column: DB624 ID: 0.32 (mm)					D	ilution Fa	ctor:	10 20.0	Lac	= 130 la
Soil Extract	Volume		_ (uL)		s	oil Aliquot	Volur	me:		(uL)
				CON	NCENTRA	AU NOITA	IITS:			
Number TIC:	s found:	0	_	(ug/l	L or ug/K	g) <u>UG</u>	/L	· ·		
CAS NO.		COMPO	JND			RT	ES	T. CONC		Q

EPA SAMPLE NO.

BU-MW11 Contract: STANTEC Lab Name: CAS-ROCH SAS No.: SDG No.: 901536 10145 Case No.: R6-31499 Lab Code: WATER Lab Sample ID: 901543 4.0 Matrix: (soil/water) Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B7284.D Level: (low/med) LOW Date Received: 05/02/06 Date Analyzed: 05/10/06 % Moisture: not dec. Dilution Factor: 1.0 4.0 Ka 5/30 100 GC Column: DB624 ID: 0.32 (mm) Soil Extract Volume ____ (uL) Soil Aliquot Volume: (uL)

	CONCENTRATE	ON ONLIG.	
CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	40	U
74-87-3	Chloromethane	40	U
75-01-4	Vinyl chloride	45	
74-83-9	Bromomethane	40	U
75-00-3	Chloroethane	40	U
75-69-4	Trichlorofluoromethane	40	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	40	U
67-64-1	Acetone	40	U
75-35-4	1,1-Dichloroethene	6	J
79-20-9	Methyl Acetate	40	U
75-09-2	Methylene chloride	40	U
75-15-0	Carbon disulfide	40	U
1634-04-4	Methyl tert-Butyl Ether	40	U
156-60-5	trans-1,2-Dichloroethene	4	J
75-34-3	1,1-Dichloroethane	87	
78-93-3	2-Butanone	40	U
156-59-2	cis-1,2-Dichloroethene	740	
67-66-3	Chloroform	40	U
110-82-7	Cyclohexane	40	U
107-06-2	1,2-Dichloroethane	40	U
71-55-6	1,1,1-Trichloroethane	21	J
56-23-5	Carbon tetrachloride	40	U
71-43-2	Benzene	40	U
79-01-6	Trichloroethene	110	
108-87-2	Methylcyclohexane	40	U
78-87-5	1,2-Dichloropropane	40	U
75-27-4	Bromodichloromethane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
79-00-5	1,1,2-Trichloroethane	2	J
124-48-1	Dibromochloromethane	40	Ū
75-25-2	Bromoform	40	Ū
108-10-1	4-Methyl-2-pentanone	40	Ü
108-88-3	Toluene	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	40	Ü
106-93-4	1,2-Dibromoethane	40	Ü
108-90-7	Chlorobenzene	40	Ü
100-41-4	Ethylbenzene	40	Ü

EPA SAMPLE NO.

BU-MW11

ab Name:	CAS-RC	OCH		Cont	act: ST	ANTEC		710011
Lab Code:	10145		Case No.: Re	5-31499 SA	S No.:	SD	G No.: 90	01536
Matrix: (soil/v	vater)	WATE	<u>R</u>		Lab Sa	ample ID: 9	01543 4.0	<u> </u>
Sample wt/vo	ol:	5.0	(g/ml) <u>N</u>	<u>1L</u>	Lab Fi	le ID: <u>B</u>	7284.D	
Level: (low/r	ned)	LOW			Date F	Received: 0	5/02/06	
% Moisture: ı	not dec.				Date A	nalyzed: 0	5/10/06	
GC Column:	DB624	1 ID:	0.32 (mm)	Dilutio	n Factor: <u>1</u>	16 4.0 X	55/30
Soil Extract \	/olume		(uL)		Soil Al	iquot Volum	ne:	(

CAS NO.	COMPOUND (ug/L or ug	g/Kg) <u>UG/L</u>	_	Q
1330-20-7	(m+p)Xylene		40	U
95-47-6	o-Xylene		40	U
100-42-5	Styrene		40	U
98-82-8	Isopropylbenzene		40	U
79-34-5	1,1,2,2-Tetrachloroethane		40	U
541-73-1	1,3-Dichlorobenzene		40	U
106-46-7	1,4-Dichlorobenzene		40	U
95-50-1	1,2-Dichlorobenzene		40	U
96-12-8	1,2-Dibromo-3-chloropropane		40	U
120-82-1	1,2,4-Trichlorobenzene		40	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMP	LE NO	•
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Lab Name:	CAS-RC	ОСН			Contract:	STANT	EC	BU-	MW11	
Lab Code:	10145	c	ase No.: R6	-31499	SAS N	lo.:	SDO	G No.: 9	901536	<u>; </u>
Matrix: (soil/	water)	WATER			La	ab Sample	D: <u>9</u>	01543 4	.0	
Sample wt/ve	ol:	5.0	(g/ml) <u>M</u>	<u>L</u>	La	ab File ID:	В	7284.D		
Level: (low/r	ned)	LOW			D	ate Receiv	ved: <u>0</u>	5/02/06		
% Moisture:	not dec.				D	ate Analyz	zed: <u>0</u>	5/10/06		
GC Column:	DB624	ID: 0).32 (mm)		D	ilution Fac	ctor: <u>1</u>	10 4.0	11cm 5	130/00
Soil Extract \	/olume		(uL)		S	oil Aliquot	Volum	ie:		(uL)
				CON	ICENTRA	TION UN	ITS:			
Number TICs	s found:	0		(ug/l	or ug/Kg) UG	/L			
CAS NO.		СОМРО	OUND			RT	EST	. CONC.		Q

EPA SAMPLE NO.

BU-MW16

Lab Name:	CAS-RC	ОСН		Contract:	STANTEC	B0-1/1// 10
Lab Code:	10145		Case No.: R6-31499	SAS No	o.: s	DG No.: 901536
Matrix: (soil/	water)	WATE	R	La	b Sample ID:	901544 400
Sample wt/v	ol:	5.0	(g/ml) ML	La	b File ID:	B7279.D
Level: (low/r	med)	LOW		Da	te Received:	05/02/06
% Moisture:	not dec.			Da	te Analyzed:	05/10/06
GC Column:	DB624	1 ID:	0.32 (mm)	Dil	ution Factor:	1.0 400 kas/30/00
Soil Extract \	Volume		(uL)	So	il Aliquot Vol	ume: (uL)

		CONCENTRATION UNITS:						
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q				
75-71-8	Dichlorodifluoro	methane	4000	U				
74-87-3	Chloromethane		4000	U				
75-01-4	Vinyl chloride		640	J				
74-83-9	Bromomethane		4000	U				
75-00-3	Chloroethane		4000	U				
75-69-4	Trichlorofluoron	nethane	4000	U				
76-13-1	1,1,2-Trichloro-	1,2,2-Trifluoroeth	4000	Ù				
67-64-1	Acetone		4000	U				
75-35-4	1,1-Dichloroeth	ene	780	J				
79-20-9	Methyl Acetate		4000	U				
75-09-2	Methylene chlo	ride	4000	U				
75-15-0	Carbon disulfide	e	4000	C				
1634-04-4	Methyl tert-Buty	/l Ether	4000	U				
156-60-5	trans-1,2-Dichlo	proethene	4000	U				
75-34-3	1,1-Dichloroeth	ane	2800	J				
78-93-3	2-Butanone		4000	U				
156-59-2	cis-1,2-Dichloro	ethene /20,	000 130000-	— E-				
67-66-3	Chloroform		4000	U				
110-82-7	Cyclohexane		4000	Ü				
107-06-2	1,2-Dichloroeth	ane	4000	U				
71-55-6	1,1,1-Trichloroe	ethane	4000					
56-23-5	Carbon tetrachi	oride	4000	U				
71-43-2	Benzene		4000	U				
79-01-6	Trichloroethene)	8200					
108-87-2	Methylcyclohex	ane	4000	J				
78-87-5	1,2-Dichloropro	pane	4000	U				
75-27-4	Bromodichloron	nethane	4000	C				
10061-01-5	cis-1,3-Dichloro	propene	4000	U				
10061-02-6	trans-1,3-Dichlo	propropene	4000	U				
79-00-5	1,1,2-Trichloroe	ethane	4000	٦				
124-48-1	Dibromochloron		4000	U				
75-25-2	Bromoform		4000	Ū				
108-10-1	4-Methyl-2-pent	tanone	4000	Ū				
108-88-3	Toluene		4000	Ū				
591-78-6	2-Hexanone		4000	Ū				
127-18-4	Tetrachloroethe	ene	4000	U				
106-93-4	1,2-Dibromoeth		4000	Ū				
108-90-7	Chlorobenzene		4000	U				
100-41-4	Ethylbenzene		4000	Ü				

EPA SAMPLE NO.

4000

4000

Lab Name:	CAS-RO	ОСН	i	Contract:	STANTEC	BI	J-MW16	
	10145).: S	DG No.:	901536	
Matrix: (soil/	water)	WATER		Lai	Sample ID:	901544	400	•
Sample wt/v	ol:	5.0 (g/ml) N	/L	Lal	File ID:	B7279.E)	
Level: (low/	med)	LOW		Da	te Received:	05/02/06	 3	
% Moisture:	not dec.			Da	te Analyzed:	05/10/06	3	
GC Column:	DB624	ID: 0,32 (mm	1)	Dil	ution Factor:	1.0 400	xas/30/	ik
Soil Extract	Volume	(uL)		So	il Aliquot Volu	ıme:	(u	L)
			CON	CENTRAI	ION UNITS:			
CAS NO	D .	COMPOUND		or ug/Kg)			Q	
1330-	20-7	(m+p)Xylene				4000	U	
95-47	-6	o-Xylene				4000	U	
100-4	2-5	Styrene				4000	U	
98-82-	-8	Isopropylbenze	ne			4000	U	
79-34	-5	1,1,2,2-Tetrach	loroethan	e		4000	U	
541-7	3-1	1,3-Dichloroben	zene			4000	U	
106-4	6-7	1,4-Dichlorober	zene			4000	U	
95-50	-1	1.2-Dichlorober	zene		T in the	4000		

1,2-Dibromo-3-chloropropane

1,2,4-Trichlorobenzene

96-12-8

120-82-1

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMP	LE NO.
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Lab Name:	CAS-RC	CH			Contract:	STANT	EC_		-101001	
Lab Code:	10145	Cas	se No.:	R6-31499	SAS No	.:	_ SD	G No.:	90153	6
Matrix: (soil/v	water)	WATER			Lat	Sample	ID: 9	01544	400	-
Sample wt/vo	ol:	5.0	(g/ml)	ML	Lat	File ID:	E	37279.D)	_
Level: (low/n	ned)	LOW			Dat	te Receiv	/ed: <u>(</u>	5/02/06	<u> </u>	
% Moisture: r	not dec.				Da	te Analyz	zed: <u>C</u>	5/10/06	;	
GC Column:	DB624	ID: <u>0.3</u>	32 (n	n m)	Dile	ution Fac	tor: _1	10 40°C	Kin	<u> </u>
Soil Extract \	/olume		_ (uL)		Soi	il Aliquot	Volun	ne:		_ (uL)
					CONCENTRATION UNITS:					
Number TICs	s found:	0	_	(ug/	L or ug/Kg)	UG	/L			
CAS NO.		COMPOL	IND			RT	EST	. CON	5.	Q

EPA SAMPLE NO.

BU-MW17

Lab Name:	CAS-RO	OCH		Contract:	STANTEC		
Lab Code:	10145		Case No.: R6-31499	SAS No	o.: 8	SDG No.: 901536	
Matrix: (soil/\	water)	WATER	₹	La	b Sample ID:	901545 1.0	
Sample wt/vo	ol:	5.0	(g/ml) ML	La	b File ID:	B7282.D	
Level: (low/r	med)	LOW	- 	Da	te Received:	05/02/06	•
% Moisture:	not dec.	·		Da	te Analyzed:	05/10/06	
GC Column:	DB624	ID:	0.32 (mm)	Dil	ution Factor:	1.0	
Soil Extract \	Volume		(uL)	So	il Aliquot Vol	ume:	(uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	Ü
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene chloride	10	Ū
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-Butyl Ether	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
110-82-7	Cyclohexane	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	Ü
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	Ū
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

EPA SAMPLE NO.

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BU-MW17 Lab Name: CAS-ROCH Contract: STANTEC Lab Code: 10145 Case No.: R6-31499 SAS No.: SDG No.: 901536 WATER Matrix: (soil/water) Lab Sample ID: 901545 1.0 5.0 Sample wt/vol: (g/ml) ML Lab File ID: B7282.D LOW Level: (low/med) Date Received: 05/02/06 % Moisture: not dec. Date Analyzed: 05/10/06 GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume Soil Aliquot Volume: (uL) **CONCENTRATION UNITS:** CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 1330-20-7 (m+p)Xylene 10 Ū 95-47-6 o-Xylene 10 U 100-42-5 Styrene 10 U 98-82-8 Isopropylbenzene 10 U 79-34-5 1,1,2,2-Tetrachloroethane 10 U 541-73-1 1,3-Dichlorobenzene 10 U 106-46-7 1,4-Dichlorobenzene 10 U

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,2-Dibromo-3-chloropropane

95-50-1

96-12-8

120-82-1

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMP	LE NO.
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Lab Name:	CAS-RC	СН		Contract:	STANT	EC	BU-M	1W17
Lab Code:	10145	Ca	se No.: R6-3149		o.:	 _ SD	G No.: 90	1536
Matrix: (soil/	water)	WATER	_	La	b Sample	e ID: j	901545 1.0)
Sample wt/ve	ol:	5.0	(g/ml) ML	La	b File ID:	: <u>l</u>	B7282.D	
Level: (low/r	ned)	LOW	-	Da	te Recei	ved:	05/02/06	
% Moisture:	not dec.			Da	te Analy:	zed: _	05/10/06	_
GC Column:	DB624	ID: 0.3	32 (mm)	Dii	ution Fac	ctor:	1.0	
Soil Extract \	/olume		_ (uL)	So	il Aliquot	Volur	ne:	(uL)
			C	ONCENTRA	TION UN	ITS:		
Number TICs	s found:	0	(u	g/L or ug/Kg)	UG	<u>/L</u>		
CAS NO.		COMPOL	IND		RT	ES	T. CONC.	Q

EPA SAMPLE NO.

BU-RW1 Contract: STANTEC Lab Name: CAS-ROCH 10145 Case No.: R6-31499 SAS No.: SDG No.: 901536 Lab Code: Lab Sample ID: 901546 20.0 Matrix: (soil/water) WATER 5.0 Lab File ID: B7288.D Sample wt/vol: (g/ml) ML Date Received: 05/02/06 LOW Level: (low/med) Date Analyzed: 05/10/06 % Moisture: not dec. Dilution Factor: 1.020.0 Ka5 30 00 GC Column: DB624 ID: 0.32 (mm) Soil Aliquot Volume: _____ (uL) Soil Extract Volume

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	200	U
74-87-3	Chloromethane	200	U
75-01-4	Vinyl chloride	1200	
74-83-9	Bromomethane	200	U
75-00-3	Chloroethane	200	U
75-69-4	Trichlorofluoromethane	200	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	200	U
67-64-1	Acetone	200	Ū
75-35-4	1,1-Dichloroethene	200	Ū
79-20-9	Methyl Acetate	200	Ü
75-09-2	Methylene chloride	200	U
75-15-0	Carbon disulfide	200	U
1634-04-4	Methyl tert-Butyl Ether	200	Ū
156-60-5	trans-1,2-Dichloroethene	27	J
75-34-3	1,1-Dichloroethane	250	
78-93-3	2-Butanone	200	U
156-59-2	cis-1,2-Dichloroethene	4600 5100	
67-66-3	Chloroform	200	U
110-82-7	Cyclohexane	200	U
107-06-2	1,2-Dichloroethane	200	U
71-55-6	1,1,1-Trichloroethane	200	U
56-23-5	Carbon tetrachloride	200	U
71-43-2	Benzene	200	U
79-01-6	Trichloroethene	400	
108-87-2	Methylcyclohexane	200	U
78-87-5	1,2-Dichloropropane	200	Ū
75-27-4	Bromodichloromethane	200	Ū
10061-01-5	cis-1,3-Dichloropropene	200	Ū
10061-02-6	trans-1,3-Dichloropropene	200	Ū
79-00-5	1,1,2-Trichloroethane	200	Ü
124-48-1	Dibromochloromethane	200	Ü
75-25-2	Bromoform	200	Ü
108-10-1	4-Methyl-2-pentanone	200	Ü
108-88-3	Toluene	200	Ü
591-78-6	2-Hexanone	200	U
127-18-4	Tetrachloroethene	200	U U
106-93-4	1,2-Dibromoethane	200	U U
108-93-4	Chlorobenzene	200	U
100-90-7	Ethylbenzene	200	U

EPA SAMPLE NO.

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Lab Name:	CAS-RO	CH		(Contract:	STANTEC	BU-RW1
Lab Code:	10145	Ca	se No.: <u>R6</u>	-31499	SAS No	.: s	SDG No.: 901536
Matrix: (soil/v	water) <u></u>	WATER	_	•	Lab	Sample ID:	901546 20.0
Sample wt/vo	ol: <u></u>	5.0	(g/ml) M	<u> </u>	Lab	File ID:	B7288.D
Level: (low/r	med) <u>l</u>	LOW	 -		Dat	e Received:	05/02/06
% Moisture: I	not dec.				Dat	e Analyzed:	05/10/06
GC Column:	DB624	_ ID: <u>0.</u> :	32_ (mm))	Dilu	ıtion Factor:	1.0 20.0 Xa5 30 0
Soil Extract \	Volume		_ (uL)		Soi	l Aliquot Vol	ume: (uL)

CONCENTRATION UNITS:

UG/L

(ug/L or ug/Kg)

1330-20-7	(m+p)Xylene	200	υ
95-47-6	o-Xylene	200	U
100-42-5	Styrene	200	U
98-82-8	Isopropylbenzene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
95-50-1	1,2-Dichlorobenzene	200	U
96-12-8	1,2-Dibromo-3-chloropropane	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U

COMPOUND

CAS NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO. TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS-RO	осн			Contract:	STANT	EC	B	U-RW1	
Lab Code:	10145		ase No.: <u>I</u>	R6-31499	SAS No	 o.:	sd	G No.:	901536	5
Matrix: (soil/	water)	WATER			La	b Sample	e ID: 9	901546	20.0	_
Sample wt/ve	o 1 :	5.0	_ (g/ml)	ML	La	b File ID:	: <u>E</u>	37288.D		_
Level: (low/r	ned)	LOW			Da	ite Recei	ved: <u>(</u>	05/02/06	<u> </u>	•
% Moisture:	not dec.				Da	ite Analy:	zed: <u>(</u>	05/10/06	<u> </u>	
GC Column:	DB624	ID: 0	.32_ (m	m)	Di	lution Fac	ctor: _1	20.0 كدا	You	= /30/04
Soil Extract \	Volume .		(uL)		So	il Aliquot	Volun	ne:		(uL)
Number TIC	r found:	0			NCENTRA L or ug/Kg					
Number TICs	- Tourid.									
CAS NO.		СОМРО	UND			RT	EST	T: CONC	3 .	Q

Soil Extract Volume (uL)

EPA SAMPLE NO.

Soil Aliquot Volume: (uL)

BU-RW2 Lab Name: CAS-ROCH Contract: STANTEC Lab Code: 10145 Case No.: R6-31499 SAS No.: SDG No.: 901536 Matrix: (soil/water) WATER Lab Sample ID: 901547 200.0 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: B7290.D LOW Level: (low/med) Date Received: 05/02/06 % Moisture: not dec. Date Analyzed: 05/10/06 Dilution Factor: 1.8 200.0 1 a5 30 106 GC Column: DB624 ID: 0.32 (mm)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	2000	U
74-87-3	Chloromethane	2000	U
75-01-4	Vinyl chloride	2000	U
74-83-9	Bromomethane	2000	U
75-00-3	Chloroethane	2000	U
75-69-4	Trichlorofluoromethane	2000	U .
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	2000	C
67-64-1	Acetone	2000	υ
75-35-4	1,1-Dichloroethene	2000	U
79-20-9	Methyl Acetate	2000	U
75-09-2	Methylene chloride	2000	U
75-15-0	Carbon disulfide	2000	U
1634-04-4	Methyl tert-Butyl Ether	2000	υ
156-60-5	trans-1,2-Dichloroethene	2000	U
75-34-3	1,1-Dichloroethane	160	J
78-93-3	2-Butanone	2000	U
156-59-2	cis-1,2-Dichloroethene	27000	
67-66-3	Chloroform	2000	U
110-82-7	Cyclohexane	2000	U
107-06-2	1,2-Dichloroethane	2000	U
71-55-6	1,1,1-Trichloroethane	230	J
56-23-5	Carbon tetrachloride	2000	U
71-43-2	Benzene	2000	U
79-01-6	Trichloroethene	13000	
108-87-2	Methylcyclohexane	2000	U
78-87-5	1,2-Dichloropropane	2000	Ū
75-27-4	Bromodichloromethane	2000	U
10061-01-5	cis-1,3-Dichloropropene	2000	Ü
10061-02-6	trans-1,3-Dichloropropene	2000	Ū
79-00-5	1,1,2-Trichloroethane	2000	Ū
124-48-1	Dibromochloromethane	2000	Ū
75-25-2	Bromoform	2000	Ū
108-10-1	4-Methyl-2-pentanone	2000	Ü
108-88-3	Toluene	2000	Ŭ
591-78-6	2-Hexanone	2000	U
127-18-4	Tetrachloroethene	2000	U
106-93-4	1,2-Dibromoethane	2000	U
108-90-7	Chlorobenzene	2000	Ü
100-41-4	Ethylbenzene	2000	U

Isopropylbenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,1,2,2-Tetrachloroethane

1,2-Dibromo-3-chloropropane

98-82-8

79-34-5

541-73-1

106-46-7

95-50-1

96-12-8

120-82-1

EPA SAMPLE NO.

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Lab Name:	CAS-RC	CH			Contract:	STA	NTEC				
Lab Code:	10145	Cas	se No.: <u>R6</u>	-31499	SAS No	o.:	SI	OG N	o.: <u>90</u>	1536	_
Matrix: (soil/	water)	WATER			La	b San	nple ID:	9015	47 200	.0_	
Sample wt/v	ol:	5.0	(g/ml) <u>M</u>	L	La	b File	ID:	B729	0.D		
Level: (low/r	med)	LOW			Da	ate Re	ceived:	05/02	2/06		-
% Moisture:	not dec.				Da	ate An	alyzed:	05/10	0/06		
GC Column:	DB624	ID: <u>0.3</u>	32 (mm))	Di	lution	Factor:	1,0 2	200.0	Kas	130 00
Soil Extract \	Volume		_ (uL)		So	pil Aliq	uot Volu	me:			(uL)
				COI	NCENTRA	TION	UNITS:				
CAS NO) .	COMPO	DUND	(ug/	L or ug/Kg) _	UG/L			Q	
1330-2	20-7	(m+p).	Xylene				Ţ <u></u>	200	0	U	7
95-47-	6	o-Xyle	ne					200	0	U	7
100-41	2-5	Styrer	10				1	200	n	11	7

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAM	PLE	NO.

Lab Name:	CAS-RC	осн		Contract:	STANTEC	BU-K	W2
Lab Code:	10145	Cas	e No.: R6-314	199 SAS No	o.: ;	SDG No.: 901	536
Matrix: (soil/	water)	WATER		La	b Sample ID	: <u>901547 200.</u>	<u>a</u>
Sample wt/v	ol:	5.0	(g/ml) ML	La	b File ID:	B7290.D	
Level: (low/s	med)	LOW		Da	ate Received	: 05/02/06	
% Moisture:	not dec.				ite Analyzed		
GC Column:	DB624	ID: <u>0.3</u>	2 (mm)	Di	lution Factor	1.0 200.0	Ken5/30
Soil Extract	Volume .		_ (uL)		oil Aliquot Vo		(uL)
Number TIC	s found:	0		CONCENTRA		:	
CAS NO.		COMPOU	ND		RT E	ST. CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEE

ET		
	BU-DUP	

EPA SAMPLE NO.

Lab Name:	CAS-ROCH		Contract: STANTEC	BO-DOP
Lab Code:	10145	Case No.: R6-31499	SAS No.:	SDG No.: 901536
Matrix: (soil/	water) <u>WATI</u>	ER	Lab Sample ID	: 901548 20.0
Sample wt/v	ol: <u>5.0</u>	(g/ml) ML	Lab File ID:	B7313.D
Level: (low/r	med) LOW		Date Received	: 05/02/06
% Moisture:	not dec.		Date Analyzed:	
GC Column:	DB624 ID:	0.32 (mm)	Dilution Factor:	10 20.0 Kas 30 pro
Soil Extract \	Volume	(uL)	Soil Aliquot Vo	lume: (uL)

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	200	U
74-87-3	Chloromethane	200	U
75-01-4	Vinyl chloride	890	
74-83-9	Bromomethane	200	U
75-00-3	Chloroethane	200	U
75-69-4	Trichlorofluoromethane	200	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	200	U
67-64-1	Acetone	200	U
75-35-4	1,1-Dichloroethene	200	U
79-20-9	Methyl Acetate	200	Ü
75-09-2	Methylene chloride	200	U
75-15-0	Carbon disulfide	200	U
1634-04-4	Methyl tert-Butyl Ether	200	U
156-60-5	trans-1,2-Dichloroethene	31	J
75-34-3	1,1-Dichloroethane	340	
78-93-3	2-Butanone	200	U
156-59-2	cis-1,2-Dichloroethene	2800	
67-66-3	Chloroform	200	C
110-82-7	Cyclohexane	200	U
107-06-2	1,2-Dichloroethane	200	U
71-55-6	1,1,1-Trichloroethane	200	U
56-23-5	Carbon tetrachloride	200	U
71-43-2	Benzene	200	U
79-01-6	Trichloroethene	170	J
108-87-2	Methylcyclohexane	200	U
78-87-5	1,2-Dichloropropane	200	U
75-27-4	Bromodichloromethane	200	U
10061-01-5	cis-1,3-Dichloropropene	200	Ū
10061-02-6	trans-1,3-Dichloropropene	200	Ū
79-00-5	1,1,2-Trichloroethane	200	Ū
124-48-1	Dibromochloromethane	200	Ü
75-25-2	Bromoform	200	U
108-10-1	4-Methyl-2-pentanone	200	Ü
108-88-3	Toluene	200	U
591-78-6	2-Hexanone	200	Ü
127-18-4	Tetrachloroethene	200	Ü
106-93-4	1,2-Dibromoethane	200	U
108-90-7	Chlorobenzene	200	U
100-41-4	Ethylbenzene	200	U

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q

BU-DUP Lab Name: CAS-ROCH Contract: STANTEC Lab Code: 10145 Case No.: R6-31499 SAS No.: SDG No.: 901536 Matrix: (soil/water) WATER Lab Sample ID: 901548 20.0 5.0 (g/ml) ML Sample wt/vol: Lab File ID: B7313.D Level: (low/med) LOW Date Received: 05/02/06 % Moisture: not dec. Date Analyzed: 05/11/06 Dilution Factor: 1.020,0 Ka5/30/06 GC Column: DB624 ID: 0.32 (mm) Soil Extract Volume ____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

UG/L

(ug/L or ug/Kg)

	(5,		_
1330-20-7	(m+p)Xylene	200	U
95-47-6	o-Xylene	200	Ū
100-42-5	Styrene	200	U
98-82-8	Isopropylbenzene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
541-73-1	1,3-Dichlorobenzene	200	Ū
106-46-7	1,4-Dichlorobenzene	200	Ū
95-50-1	1,2-Dichlorobenzene	200	U
96-12-8	1,2-Dibromo-3-chloropropane	200	Ū
120-82-1	1.2.4-Trichlorobenzone	200	

COMPOUND

CAS NO.

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	CAS-RC	СН			Contract:	STANTE	<u>c</u>	U-DUP	
Lab Code:	10145	Cas	se No.:	R6-31499	SAS N	o.:	SDG No.:	901536	
Matrix: (soil/	water)	WATER			La	b Sample I	D: <u>901548</u>	20.0	
Sample wt/ve	ol:	5.0	(g/ml)	ML	. La	b File ID:	B7313.E)	
Level: (low/r	ned)	LOW			Da	ate Receive	ed: <u>05/02/06</u>	<u> </u>	
% Moisture:	not dec.				Da	ate Analyze	d: <u>05/11/06</u>	<u> </u>	
GC Column:	DB624	ID: 0.3	<u>32</u> (r	nm)	Di	lution Facto	or: <u>1.0 20 .</u>	o rast	30 O
Soil Extract \	√olume .		_ (uL)		So	oil Aliquot V	/olume:	((uL)
				CON	NCENTRA	TION UNIT	S:		
Number TIC:	s found:	0	_	(ug/	L or ug/Kg) <u>UG/L</u>			
CAS NO.		COMPOL	IND			RT	EST. CON	c. Q	

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name:	CAS-RC	OCH	Contract: STANTEC	C TRIP BLAIN	
.ab Code:	10145	Case No.: R6-31	499 SAS No.:	SDG No.: 901536	
//atrix: (soil/	water)	WATER	Lab Sample II	D: <u>901549 1.0</u>	
Sample wt/v	ol:	5.0 (g/ml) ML	Lab File ID:	B7312.D	
.evel: (low/r	med)	LOW	Date Receive	d: <u>05/02/06</u>	
% Moisture:	not dec.		Date Analyzed	d: <u>05/11/06</u>	
SC Column:	DB624	ID: <u>0.32</u> (mm)	Dilution Facto	r: <u>1.0</u>	
Soil Extract \	Volume	(uL)	Soil Aliquot Vo	olume: (uL	,

		CONCENTRATIC	N 0N119:		
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L		Q
75-71-8	Dichlorodifluoro	methane		10	U
74-87-3	Chloromethane			10	U
75-01-4	Vinyl chloride			10	U
74-83-9	Bromomethane			10	U
75-00-3	Chloroethane			10	U
75-69-4	Trichlorofluoron	nethane		10	U
76-13-1	1,1,2-Trichloro-	1,2,2-Trifluoroeth		10	U
67-64-1	Acetone			10	U
75-35-4	1,1-Dichloroeth	ene		10	U
79-20-9	Methyl Acetate			10	U
75-09-2	Methylene chlo	ride		10	U
75-15-0	Carbon disulfide	9		10	U
1634-04-4	Methyl tert-Buty			10	U
156-60-5	trans-1,2-Dichlo	roethene		10	U
75-34-3	1,1-Dichloroeth	ane		10	U
78-93-3	2-Butanone			10	U
156-59-2	cis-1,2-Dichloro	ethene		10	U
67-66-3	Chloroform			10	U
110-82-7	Cyclohexane			10	U
107-06-2	1,2-Dichloroetha	ane		10	U
71-55-6	1,1,1-Trichloroe	thane		10	U
56-23-5	Carbon tetrachl	oride		10	U
71-43-2	Benzene			10	U
79-01-6	Trichloroethene			10	U
108-87-2	Methylcyclohex	ane		10	U
78-87-5	1,2-Dichloropro	pane		10	U
75-27-4	Bromodichloron	nethane		10	U
10061-01-5	cis-1,3-Dichloro	propene		10	U
10061-02-6	trans-1,3-Dichlo	ropropene		10	U
79-00-5	1,1,2-Trichloroe	thane		10	U
124-48-1	Dibromochloron	nethane		10	Ū
75-25-2	Bromoform			10	Ū
108-10-1	4-Methyl-2-pent	anone		10	Ū
108-88-3	Toluene			10	U
591-78-6	2-Hexanone		<u> </u>	10	Ü
127-18-4	Tetrachloroether	ne			
106-93-4	1,2-Dibromoetha				
				10 10 10 10	U U U

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name:	CAS-RO	OCH		Contract:	STANTE		/IL DEVIAL	`
Lab Code:	10145		Case No.: R6-3	1499 SAS No	o.:	SDG No.	.: <u>901536</u>	
Matrix: (soil/	water)	WATE	R_	Lai	o Sample II	D: <u>90154</u>	9 1.0	
Sample wt/v	ol:	5.0	(g/ml) <u>ML</u>	Lai	b File ID:	B7312	D	
Level: (low/i	med)	LOW		Da	te Receive	d: <u>05/02/</u>	06	
% Moisture:	not dec.			Da	te Analyze	d: <u>05/11/</u>	06	
GC Column:	DB624	1 ID:	<u>0.32</u> (mm)	Dil	ution Facto	r: <u>1.0</u>		
Soil Extract	Volume		(uL)	So	il Aliquot V	olume: _		(uL)
				CONCENTRAT	-	S:		
CACNIC	`	-col		(uall or ualka)	UC/		\sim	

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
1330-20-7	(m+p)Xylene	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachioroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	CAS-RO	ОСН			Contract:	STANT	EC	TRIP BI	_ANK
	10145	Cas	se No.: Re	31499	SAS N	0.:	SD	G No.: 901	536
Matrix: (soil/w	vater)	WATER			La	b Sample	D: 9	01549 1.0	
Sample wt/vo	ol:	5.0	(g/ml) <u>N</u>	IL	_. La	b File ID:	<u> </u>	37312.D	
Level: (low/n	ned)	LOW			Da	ate Recei	ved: 0	5/02/06	
% Moisture: n	not dec.		<u></u>		Da	ate Analy	zed: 0	5/11/06	
GC Column:	DB624	ID: <u>0.3</u>	32 (mm)	Di	lution Fac	ctor: 1	.0	
Soil Extract V	olume .		_ (uL)		So	oil Aliquot	Volum	ne:	(uL)
				CON	ICENTRA	TION UN	ITS:		
Number TICs	found:	0	-	(ug/l	or ug/Kg) <u>UG</u>	/L		
CAS NO.		COMPOU	ND			RT	EST	CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COOLER BLK

Lab Name:	CAS-RO	СН		Contract:	STANTEC	COOLER BLK
Lab Code:	10145		Case No.: R6-31499	SAS No	.:	SDG No.: 901536
Matrix: (soil/v	vater)	WATE	R_	Lat	Sample ID): <u>901550 1.0</u>
Sample wt/vo	ol:	5.0	(g/ml) ML	_ Lat	File ID:	B7315.D
Level: (low/n	ned)	LOW		Dat	e Received	I: <u>05/02/06</u>
% Moisture: r	not dec.			Dat	e Analyzed	: 05/11/06
GC Column:	DB624	ID:	<u>0.32</u> (mm)	Dilt	ıtion Factor	: 1.0
Soil Extract V	/olume		(uL)	Soi	l Aliquot Vo	lume: (uL

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene chloride	10	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
110-82-7	Cyclohexane	10	U
107-06-2	1,2-Dichloroethane	10	Ū
71-55-6	1,1,1-Trichloroethane	10	Ū
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	Ü
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	Ü
10061-02-6	trans-1,3-Dichloropropene	10	Ü
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	Ü
75-25-2	Bromoform	10	Ü
108-10-1	4-Methyl-2-pentanone	10	Ü
108-88-3	Toluene	10	Ü
591-78-6	2-Hexanone	10	Ü
127-18-4	Tetrachloroethene	10	Ü
106-93-4	1,2-Dibromoethane	10	Ü
108-90-7	Chlorobenzene	10	Ü
100-41-4	Ethylbenzene	10	Ü

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:	CAS-RC	CH		Contract:	STANTEC		
Lab Code:	10145	Cas	se No.: <u>R6-31499</u>	SAS No	.: s	SDG No.: 901536	_
Matrix: (soil/v	vater)	WATER		Lat	Sample ID:	901550 1.0	
Sample wt/vo	ol:	5.0	(g/ml) ML	Lat	File ID:	B7315.D	
Level: (low/n	ned)	LOW		Dat	te Received:	05/02/06	
% Moisture: r	not dec.			Dat	te Analyzed:	05/11/06	
GC Column:	DB624	ID: <u>0.3</u>	2 (mm)	Dik	ution Factor:	1.0	
Soil Extract V	/olume _		_ (uL)	Soi	il Aliquot Vol	ume:	(uL)
			CON		ION HAIITO		

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
1330-20-7	(m+p)Xylene	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.

Lab Name:	CAS-RC	CH			Contrac	t:	STANTE	EC		LEK	DLN ——	
Lab Code:	10145	Cas	e No.:	R6-31499	SAS	No	.:	_ s	DG No.:	9015	36	_
Matrix: (soil/	water)	WATER			1	Lat	o Sample	ID:	901550	1.0		
Sample wt/vo	ol:	5.0	(g/ml)	ML		Lat	File ID:		B7315.E		_	
Level: (low/r	ned)	LOW			٠ ا	Dat	te Receiv	ed:	05/02/06	3	_	
% Moisture:	not dec.				I	Dat	te Analyz	ed:	05/11/06	3	_	
GC Column:	DB624	ID: <u>0.3</u>	<u>2</u> (m	m)	ı	Dil	ution Fac	tor:	1.0		_	
Soil Extract \	/olume _		_ (uL)		;	Soi	il Aliquot	Volu	ıme:		_ (1	uL)
				CON	NCENTR	LA!	TION UNI	TS:				
Number TICs	s found:	0	-	(ug/	L or ug/k	(g)	UG/	L				
CAS NO.		COMPOU	ND				RT	ES	ST. CON	c.	Q	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DU MAAA OM

EPA SAMPLE NO.

Lab Name:	CAS-RO	OCH			Contract:	STANTEC	DO-1/1// 10-C//
Lab Code:	10145	C	ase No.: Re	31499	SAS No	.: S	DG No.: 901536
Matrix: (soil/v	water)	WATER			Lab	Sample ID:	901542 50
Sample wt/vo	ol:	1000	(g/ml) <u>M</u>	IL	Lab	File ID:	CK800.D
Level: (low/r	ned)	LOW	_		Dat	e Received:	5/2/06
% Moisture:		de	canted:(Y/N	l) <u>N</u>	Dat	e Extracted:	5/4/06
Concentrated	Extract	Volume:	5000 (ul	_)	Dat	e Analyzed:	5/17/06
njection Volu	ıme: <u>2</u>	.0 (uL)			Dilu	ıtìon Factor:	1.0 10.0 Ju 5/26/06
GPC Cleanu	p: (Y/N)	N	pH: <u>7</u>				

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
108-95-2	Phenol		500	U
111-44-4	bis(-2-Chloroethyl)Ethe	er	500	U
95-57-8	2-Chlorophenol		500	U
108-60-1	2,2'-oxybis(1-Chloropro	ppane)	500	U
95-48-7	2-Methylphenol		500	U
621-24-7	N-Nitroso-Di-n-propylar	mine	500	UJ
67-72-1	Hexachloroethane		500	U
106-44-5	4-Methylphenol		500	U
98-95-3	Nitrobenzene		500	U
78-59-1	Isophorone		500	U
88-75-5	2-Nitrophenol		500	U
105-67-9	2,4-Dimethylphenol		500	U
111-91-1	bis(-2-Chloroethoxy)Me	ethane	500	U
120-83-2	2,4-Dichlorophenol		500	U
91-20-3	Naphthalene		500	U
106-47-8	4-Chloroaniline		500	U
87-68-3	Hexachlorobutadiene	1	500	U
59-50-7	4-Chloro-3-methylphen	ol	500	U
91-57-6	2-Methylnaphthalene		500	U
77-47-4	Hexachlorocyclopentad	liene	500	U
88-06-2	2,4,6-Trichlorophenol		500	U
95-95-4	2,4,5-Trichlorophenol		1200	U
91-58-7	2-Chloronaphthalene		500	U
88-74-4	2-Nitroaniline		1200	U
208-96-8	Acenaphthylene		500	U
131-11-3	Dimethyl Phthalate		500	U
606-20-2	2,6-Dinitrotoluene		500	U
83-32-9	Acenaphthene		500	U
99-09-2	3-Nitroaniline		1200	U
51-28-5	2,4-Dinitrophenol		1200	UJ
132-64-9	Dibenzofuran		500	U
121-14-2	2,4-Dinitrotoluene		500	U
100-02-7	4-Nitrophenol		1200	U
86-73-7	Fluorene		500	U
7005-72-3	4-Chlorophenyl-phenyle	ether	500	U
84-66-2	Diethylphthalate		500	U
100-01-6	4-Nitroaniline		1200	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BU-MW10-GW Lab Name: CAS-ROCH Contract: STANTEC

Case No.: R631499 Lab Code: 10145 SAS No.: SDG No.: 901536

WATER Matrix: (soil/water) Lab Sample ID: 901542 50

1000 (g/ml) ML CK800.D Level: (low/med) LOW Date Received: 5/2/06

N % Moisture: decanted:(Y/N) Date Extracted: 5/4/06

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 5/17/06

Dilution Factor: 10 10.0 To Juliob Injection Volume: 2.0 (uL)

GPC Cleanup: (Y/N) N pH: 7

Sample wt/vol:

CONCENTRATION UNITS:

Lab File ID:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
534-52-1	4,6-Dinitro-2-methylpl	nenol	1200	U
86-30-6	N-Nitrosodiphenylami	ne	500	U
101-55-3	4-Bromophenyl-pheny	lether	500	U
118-74-1	Hexachlorobenzene		500	U
87-86-5	Pentachlorophenol		1200	U
⁻ 85-01-8	Phenanthrene		500	U
120-12-7	Anthracene		500	U
86-74-8	Carbazole		500	U
84-74-2	Di-n-Butylphthalate		500	U
206-44-0	Fluoranthene		500	U
129-00-0	Pyrene		500	U
85-68-7	Butyl benzyl phthalate		500	U
91-94-1	3,3'-Dichlorobenzidine		500	U
56-55-3	Benzo(a)Anthracene		500	U
218-01-9	Chrysene		500	Ū
117-81-7	Bis(2-Ethylhexyl)Phtha	alate	500	U
117-84-0	Di-n-octyl phthalate		500	U
205-99-2	Benzo(b)fluoranthene		500	5
207-08-9	Benzo(k)Fluoranthene		500	J
50-32-8	Benzo(a)Pyrene		500	
193-39-5	Indeno(1,2,3-cd)Pyren	e	500	٦
53-70-3	Dibenz(a,h)anthracene		500	U
191-24-2	Benzo(g,h,i)Perylene		500	J
1912-24-9	Atrazine		500	UB
100-52-7	Benzaldehyde		500	U
98-86-2	Acetophenone		500	U
105-60-2	Caprolactam		1200	C
92-52-4	Biphenyl		500	C

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BU-MW10-GW

Lab Name:	CAS-R	OCH			Contract:	STANTEC	
Lab Code:	10145		Case No.:	R631499	_ SAS No	.: s	DG No.: 901536
Matrix: (soil/	water)	WATER	₹		Lal	Sample ID:	901542 50
Sample wt/ve	ol:	1000	(g/ml) <u>ML</u>	Lat	File ID:	CK800.D
Level: (low/r	med)	LOW			Da	te Received:	5/2/06
% Moisture:		d	ecanted: ((Y/N)1	N Dat	te Extracted:	5/4/06
Concentrated	d Extract	Volume:	5000	(uL)	Dat	te Analyzed:	5/17/06
Injection Volu	ume: 2.0	0 (uL)			Dilu	ution Factor:	1.8 10.0 JW 1/16/06
GPC Cleanu	p: (Y/N)	N	pH; 7				

CONCENTRATION UNITS:

Number TICs found: 24 (ug/L or ug/Kg) UG/L

				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.84	590	J
2.	unknown hydrocarbon	7.11	310	J
3.	unknown	7.73	240	J
4.	unknown	7.81	420	J
5.	unknown hydrocarbon	8.09	250	J
6.	unknown	8.89	320	J
7.	unknown	9.76	390	J
8.	unknown	10.15	270	J
9.	unknown	11.66	490	J
10.	unknown hydrocarbon	12.23	510	J
11.	unknown hydrocarbon	13.23	570	J
12.	unknown	14.00	310	J
13.	unknown	14.80	370	J
14.	unknown	15.60	520	J
15.	unknown	15.70	280	J
16.	unknown	15.81	490	J
17.	unknown	16.07	470	J
18.	unknown	16.46	230	J
19.	unknown	16.55	290	J
20.	unknown hydrocarbon	16.90	350	J
21.	unknown hydrocarbon	18.85	360	J
22.	unknown	19.25	240	J
23.	unknown	19.59	270	J
24.	unknown hydrocarbon	19.96	440	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BU-MW16-GW Contract: STANTEC Lab Name: CAS-ROCH Lab Code: 10145 Case No.: R631499 SAS No.: SDG No.: 901536 WATER Matrix: (soil/water) Lab Sample ID: 901544 0.93 1070 (g/ml) ML CK801.D Sample wt/vol: Lab File ID: LOW Date Received: 5/2/06 Level: (low/med) Ν decanted:(Y/N) % Moisture: Date Extracted: 5/4/06 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/17/06 Injection Volume: 2.0 (uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7

		CONCENTRAT	ION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
108-95-2	Phenol		9	U
111-44-4	bis(-2-Chloroethyl)Et	ner	9	U
95-57-8	2-Chlorophenol		9	U
108-60-1	2,2'-oxybis(1-Chlorop	ropane)	9	U
95-48-7	2-Methylphenol		2	J
621-24-7	N-Nitroso-Di-n-propyl	amine	9	US
67-72-1	Hexachloroethane		9	U
106-44-5	4-Methylphenol		3	J
98-95-3	Nitrobenzene		9	U
78-59-1	Isophorone		9	U
88-75-5	2-Nitrophenol		9	U
105-67-9	2,4-Dimethylphenol		9	U
111-91-1	bis(-2-Chloroethoxy)N	Methane	9	U
120-83-2	2,4-Dichlorophenol		9	U
91-20-3	Naphthalene		27	
106-47-8	4-Chloroaniline		9	U
87-68-3	Hexachlorobutadiene		9	U
59-50-7	4-Chloro-3-methylphe	nol	9	U
91-57-6	2-Methylnaphthalene		9	U
77-47-4	Hexachlorocyclopenta	diene	9	U
88-06-2	2,4,6-Trichlorophenol		9	U
95-95-4	2,4,5-Trichlorophenol		23	U
91-58-7	2-Chloronaphthalene		9	U
88-74-4	2-Nitroaniline		23	IJ
208-96-8	Acenaphthylene		9	U
131-11-3	Dimethyl Phthalate		9	C
606-20-2	2,6-Dinitrotoluene		9	U
83-32-9	Acenaphthene		1.0	J
99-09-2	3-Nitroaniline		23	U
51-28-5	2,4-Dinitrophenol		23	U J
132-64-9	Dibenzofuran		9	U
121-14-2	2,4-Dinitrotoluene		9	U
100-02-7	4-Nitrophenol		23	U
86-73-7	Fluorene		9	U
7005-72-3	4-Chlorophenyl-pheny	lether	9	U
84-66-2	Diethylphthalate		9	U
100-01-6	4-Nitroaniline		23	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BU-MW16-GW

Lab Name:	CAS-RO	DCH			Contract:	STANTEC		
Lab Code:	10145	c	ase No.:	R631499	SAS No	.: s	DG No.: 901536	
Matrix: (soil/\	water)	WATER			Lat	Sample ID:	901544 0.93	
Sample wt/vo	ol:	1070	(g/ml)	ML	Lab	File ID:	CK801.D	
Level: (low/r	ned)	LOW			Dat	e Received:	5/2/06	
% Moisture:		d	ecanted:(Y/N)N	Dat	e Extracted:	5/4/06	
Concentrated	Extract	Volume:	1000	(uL)	Dat	e Analyzed:	5/17/06	
njection Volu	ıme: <u>2</u> .	.0 _ (uL)			Dilu	ıtion Factor:	1.0	
GPC Cleanur	p: (Y/N)	N	рН: <u>7</u>					

		CONCENTRAT	ION CINITS.	
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
534-52-1	4,6-Dinitro-2-methylp	henol	23	U
86-30-6	N-Nitrosodiphenylam		9	U
101-55-3	4-Bromophenyl-phen	ylether	9	U
118-74-1	Hexachlorobenzene		9	U
87-86-5	Pentachlorophenol		23	U
85-01-8	Phenanthrene		9	Ü
120-12-7	Anthracene		9	U
86-74-8	Carbazole		2	J
84-74-2	Di-n-Butylphthalate		9	U
206-44-0	Fluoranthene		1	J
129-00-0	Pyrene		9	U
85-68-7	Butyl benzyl phthalate	e	9	U
91-94-1	3,3'-Dichlorobenzidin		9	U
56-55-3	Benzo(a)Anthracene		9	U
218-01-9	Chrysene		9	U
117-81-7	Bis(2-Ethylhexyl)Phth	nalate	1	J
117-84-0	Di-n-octyl phthalate		9	U
205-99-2	Benzo(b)fluoranthene		9	U
207-08-9	Benzo(k)Fluoranthen		9	U
50-32-8	Benzo(a)Pyrene		9	J
193-39-5	Indeno(1,2,3-cd)Pyre	ne	9	U
53-70-3	Dibenz(a,h)anthracen	e	9	U
191-24-2	Benzo(g,h,i)Perylene		9	U
1912-24-9	Atrazine		9	UJ
100-52-7	Benzaldehyde		9	U
98-86-2	Acetophenone		1	J
105-60-2	Caprolactam		23	U
92-52-4	Biphenyl		9	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BU-MW16-GW

Lab Name:	CAS-RO	DCH		_ Contract:	STANTEC	BO-19194 16-G44
Lab Code:	10145	Case	No.: R631499	SAS No	o.: s	DG No.: 901536
Matrix: (soil/\	water)	WATER		La	b Sample ID:	901544 0.93
Sample wt/vo	ol:	1070	(g/ml) ML	Lal	b File ID:	CK801.D
Level: (low/r	ned)	LOW		Da	te Received:	5/2/06
% Moisture:		decan	ted: (Y/N)	N Da	te Extracted:	5/4/06
Concentrated	Extract	Volume: 100	00 (uL)	Da	te Analyzed:	5/17/06
njection Volu	ıme: <u>2.</u> 0) (uL)		Dil	ution Factor:	1.0
GPC Cleanu	o: (Y/N)	N pt	l: 7			

CONCENTRATION UNITS:

Number TiCs found: 24 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	4.03	4	J
2.	unknown	5.45	12	J
3.	unknown	_6.33	4	J
4.	unknown	6.65	5	J
5.	unknown	6.86	6	J
6.	unknown	7.35	10	J
7.	unknown	7.57	18	J
8.	unknown	7.82	5	J
9.	unknown	7.90	6	J
10.	unknown	8.12	33	J
11.	unknown	8.29	10	J
12.	unknown	8.52	4	J
13.	unknown	8.57	5	J
14.	unknown	8.86	6	J
15.	unknown	8.93	13	J
16.	unknown	9.22	6	J
17.	unknown	9.84	55	7
18.	unknown	9.94	6	J
19.	unknown	10.53	8	7
20.	unknown	11.70	29	J
21.	unknown	12.51	4	J
22.	unknown	12.76	6	7
23.	unknown	14.32	6	7
24.	unknown	20.60	5	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BU-DUP-GW

Lab Name: CAS-ROCH Contract: STANTEC 10145 Case No.: R631499 SAS No.: SDG No.: 901536 Lab Code: Lab Sample ID: 901548 20.8 WATER Matrix: (soil/water) 960 (g/ml) ML Sample wt/vol: Lab File ID: CK799.D LOW Level: (low/med) Date Received: 5/2/06 % Moisture: decanted:(Y/N) N Date Extracted: 5/4/06 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/17/06 Injection Volume: 2.0 (uL) Dilution Factor: 1.0 20.0 J. Aprilut GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND (ug/L or	ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	210	U
111-44-4	bis(-2-Chloroethyl)Ether	210	U
95-57-8	2-Chlorophenol	210	U
108-60-1	2,2'-oxybis(1-Chloropropane)	210	U
95-48-7	2-Methylphenol	210	U
621-24-7	N-Nitroso-Di-n-propylamine	210 59	s U
67-72-1	Hexachloroethane	210	U
106-44-5	4-Methylphenol	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	bis(-2-Chloroethoxy)Methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
59-50-7	4-Chloro-3-methylphenol	210_	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	520	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	520	U
208-96-8	Acenaphthylene	210	U
131-11-3	Dimethyl Phthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
83-32-9	Acenaphthene	210	U
99-09-2	3-Nitroaniline	520	U
51-28-5	2,4-Dinitrophenol	520	UJ
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
100-02-7	4-Nitrophenol	520	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
84-66-2	Diethylphthalate	210	U
100-01-6	4-Nitroaniline	520	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BU-DUP-GW Lab Name: CAS-ROCH Contract: STANTEC Case No.: R631499 SAS No.: SDG No.: 901536 Lab Code: 10145 Lab Sample ID: 901548 20.8 WATER Matrix: (soil/water) 960 Lab File ID: Sample wt/vol: (g/ml) ML CK799.D Level: (low/med) LOW Date Received: 5/2/06 % Moisture: decanted:(Y/N) N Date Extracted: 5/4/06 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/17/06 Injection Volume: 2.0 (uL) Dilution Factor: 1.8 20.0 50 51166 GPC Cleanup: (Y/N) N pH: 7

CAS NO.	COMPOUND	(ug/L or ug/Kg)		Q
534-52-1	4,6-Dinitro-2-methylpl	henol	520	U
86-30-6	N-Nitrosodiphenylami	ne	210	U
101-55-3	4-Bromophenyl-pheny	lether	210	U
118-74-1	Hexachlorobenzene		210	U
87-86-5	Pentachlorophenol		520	U
85-01-8	Phenanthrene		210	J
120-12-7	Anthracene		210	Ų
86-74-8	Carbazole		210	C
84-74-2	Di-n-Butylphthalate		210	U
206-44-0	Fluoranthene		210	U
129-00-0	Pyrene		210	U
85-68-7	Butyl benzyl phthalate		210	U
91-94-1	3,3'-Dichlorobenzidine		210	U
56-55-3	Benzo(a)Anthracene		210	U
218-01-9	Chrysene		210	U
117-81-7	Bis(2-Ethylhexyl)Phtha	alate	210	U
117-84-0	Di-n-octyl phthalate		210	U
205-99-2	Benzo(b)fluoranthene		210	U
207-08-9	Benzo(k)Fluoranthene		210	U
50-32-8	Benzo(a)Pyrene		210	U
193-39-5	Indeno(1,2,3-cd)Pyren	е	210	U
53-70-3	Dibenz(a,h)anthracene		210	U
191-24-2	Benzo(g,h,i)Perylene		210	U
1912-24-9	Atrazine		210	UJ
100-52-7	Benzaldehyde		210	U
98-86-2	Acetophenone		210	U
105-60-2	Caprolactam		520	U
92-52-4	Biphenyl		210	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BU-DUP-GW Lab Name: CAS-ROCH Contract: STANTEC Lab Code: 10145 Case No.: R631499 SAS No.: SDG No.: 901536 Matrix: (soil/water) WATER Lab Sample ID: 901548 20.8 Sample wt/vol: 960 (g/ml) ML Lab File ID: CK799.D LOW Level: (low/med) Date Received: 5/2/06 % Moisture: Date Extracted: 5/4/06 decanted: (Y/N) Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/17/06 Injection Volume: 2.0 (uL) Dilution Factor: 1.0 20.0 (1) April 1 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 25 (ug/L or ug/Kg) UG/L

		_ 		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.42	250	J
2.	unknown	6.78	240	J
3.	unknown	6.85	860	J
4.	unknown	6.93	230	J
5.	unknown hydrocarbon	7.11	440	J
6.	unknown	7.73	310	J
7.	unknown	7.82	570	J
8.	unknown	8.10	330	J
9.	unknown	8.57	310	J
10.	unknown	8.67	270	J
11.	unknown	8.89	360	J
12.	unknown	9.77	460	J
13.	unknown	10.15	300	J
14.	unknown	11.67	500	J
15.	unknown hydrocarbon	12.24	450	J
16.	unknown hydrocarbon	13.25	540	J
17	unknown	14.01	230	J
18	unknown	14.07	220	J
19.	unknown	14.81	320	J
20.	unknown hydrocarbon	15.61	390	J
21.	unknown	15.82	380	J
22.	unknown	16.08	240	J
23.	unknown hydrocarbon	18.86	210	J
24.	unknown	19.98	400	Ĵ
25.	unknown	20.51	340	J

Appendix J

Fish and Wildlife Agency Correspondence

New York State Department of Environmental Conservation RECEIVED

New York Natural Heritage Program

625 Broadway, Albany, New York 12233-4757 ione: (518) 402-8935 • FAX: (518) 402-8925

Website: www.dec.state.ny.us

JUL 1 6 2007

Stantes Consulting Group I.co.



July 13, 2007

Marc Bouchard Stantec Consulting Services 2250 Brighton Henrietta Road Rochester, NY 14623-2706

Dear Mr. Bouchard:

In response to your recent request, we have reviewed the New York Natural Heritage Program databases with respect to an Environmental Assessment for the proposed Brownfields Program - Remedial Investigation - Buell Automatics, site as indicated on the map you provided, located at 381 Buell Road, Rochester, Monroe County.

We have no records of known occurrences of rare or state-listed animals or plants, significant natural communities, or other significant habitats, on or in the immediate vicinity of your site.

The absence of data does not necessarily mean that rare or state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain any information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. For these reasons, we cannot provide a definitive statement on the presence or absence of rare or state-listed species, or of significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities and other significant habitats maintained in the Natural Heritage Data bases. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

> ara Seoane, Information Services New York Natural Heritage Program

Enc.

Ì

cc: Reg. 8, Wildlife Mgr.

Memo



To:

Peter Smith

Rochester Office

Andy Smith From:

Rochester Office

File:

16059

Date:

July 26, 2007

Buell Automatics Remedial Investigation Reference:

In accordance with US Fish and Wildlife Service (USFWS) current policy for information on threatened and endangered species, I have reviewed the USFWS web page for federally listed threatened and endangered species in Monroe County. The federal listing identifies bog turtle (Clemmys muhlenbergii) in the Towns of Riga and Sweden as the only federally threatened or endangered species occurring in Monroe County. There were no threatened/endangered species identified in the vicinity of Buell Road in the Town of Gates. According to US FWS policy, if a subject site contains no habitat suitable for the subject species, no further investigation is required. Given that the subject site is located in an industrial area with no marsh cover/sedge wetlands that are the preferred habitat of the bog turtle, no further investigation is needed.

STANTEC CONSULTING SERVICES INC.

Andy Smith

Senior Scientist, Environmental Management

andy.smith@stantec.com

Attachment: US FWS Monroe County Listed T/E Species

Page 1 of 1 Monroe County



Monroe County

Federally Listed Endangered and Threatened Species and Candidate Species

This list represents the best available information regarding known or likely County occurrences of Federally-listed and candidate species and is subject to change as new information becomes available.

Common Name

Scientific Name

Status

Bog turtle (Riga and Sweden Townships)

Clemmys muhlenbergii

Т

E=Endangered T=Threatened P=Proposed C=Candidate

Information current as of: 7/26/2007



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Long Island Field Office

Phone: (631) 776-1401

Fax: (631) 776-1405

3 Old Barto Rd., Brookhaven, NY 11719

New York Field Office 3817 Luker Road, Cortland, NY 13045

Phone: (607) 753-9334 Fax: (607) 753-9699



Endangered Species Act List Request Response Cover Sheet

This cover sheet is provided in response to a search of our website* for information regarding the potential presence of species under jurisdiction of the U.S. Fish and Wildlife Service (Service) within a proposed project area.

Attached is a copy of the New York State County List of Threatened, Endangered, and Candidate Species for the appropriate county(ies). The database that we use to respond to list requests was developed primarily to assist Federal agencies that are consulting with us under Section 7(a)(2) of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*). Our lists include all Federally-listed, proposed, and candidate species known to occur, as well as those likely to occur, in specific counties.

The attached information is designed to assist project sponsors or applicants through the process of determining whether a Federally-listed, proposed, or candidate species and/or "critical habitat" may occur within their proposed project area and when it is appropriate to contact our offices for additional coordination or consultation. You may be aware that our offices have provided much of this information in the past in project-specific letters. However, due to increasing project review workloads and decreasing staff, we are now providing as much information as possible through our website. We encourage anyone requesting species list information to print out all materials used in any analyses of effects on listed, proposed, or candidate species.

The Service routinely updates this database as species are proposed, listed, and delisted, or as we obtain new biological information or specific presence/absence information for listed species. If project proponents coordinate with the Service to address proposed and candidate species in early stages of planning, this should not be a problem if these species are eventually listed. However, we recommend that both project proponents and reviewing agencies retrieve from our online database an *updated* list every 90 days to append to this document to ensure that listed species presence/absence information for the proposed project is *current*.

Reminder: Section 9 of the ESA prohibits unauthorized taking** of listed species and applies to Federal and non-Federal activities. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take**" any listed species without appropriate authorizations from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take**," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.

Additionally, endangered species and their habitats are protected by Section 7(a)(2) of the ESA, which requires Federal agencies, in consultation with the Service, to ensure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. An assessment of the potential direct, indirect, and cumulative impacts is required for all Federal actions that may affect listed species.

For instance, work in certain waters of the United States, including wetlands and streams, may require a permit from the U.S. Army Corps of Engineers (Corps). If a permit is required, in reviewing the application pursuant to the Fish and Wildlife Coordination Act (48 Stat. 401, as amended;16 U.S.C. 661 et seq.), the Service may concur, with or without recommending additional permit conditions, or recommend denial of the permit depending upon potential adverse impacts on fish and wildlife resources associated with project construction or implementation. The need for a Corps permit may be determined by contacting the appropriate Corps office(s).*

For additional information on fish and wildlife resources or State-listed species, we suggest contacting the appropriate New York State Department of Environmental Conservation regional office(s) and the New York Natural Heritage Program Information Services.*

Since wetlands, ponds, streams, or open or sheltered coastal waters may be present in the project area, it may be helpful to utilize the National Wetlands Inventory (NWI) maps as an initial screening tool. However, they may or may not be available for the project area. Please note that while the NWI maps are reasonably accurate, they should not be used in lieu of field surveys for determining the presence of wetlands or delineating wetland boundaries for Federal regulatory purposes. Online information on the NWI program and digital data can be downloaded from Wetlands Mapper, http://wetlands.fws.gov/mapper_tool.htm.

Project construction or implementation should not commence until all requirements of the ESA have been fulfilled. After reviewing our website and following the steps outlined, we encourage both project proponents and reviewing agencies to contact our office to determine whether an accurate determination of species impacts has been made. If there are any questions about our county lists or agency or project proponent responsibilities under the ESA, please contact the New York or Long Island Field Office Endangered Species Program at the numbers listed above.

Attachment (county list of species)

- *Additional information referred to above may be found on our website at: http://www.fws.gov/northeast/nyfo/es/section7.htm
- ** Under the Act and regulations, it is illegal for any person subject to the jurisdiction of the United States to *take* (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New York Field Office 3817 Luker Road Cortland, NY 13045

Phone: (607) 753-9334 Fax: (607) 753-9699

http://www.fws.gov/northeast/nyfo



Project Number <u>0763</u> 70765

To: Marc Bouchard Date: 7-30-07
Regarding: Buell automatics Penedial Investigation
Town/County: Rochester / Monrol
We have received your request for information regarding occurrences of Federally-listed threatened and endangered species within the vicinity of the above-referenced project/property. Due to increasing workload and reduction of staff, we are no longer able to reply to endangered species list requests in a timely manner. In an effort to streamline project reviews, we are shifting the majority of species list requests to our website at http://www.fws.gov/northeast/nyfo/es/section7.htm. Please go to our website and print the appropriate portions of our county list of endangered, threatened, proposed, and candidate species, and the official list request response. Step-by-step instructions are found on our website.
As a reminder, Section 9 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) prohibits unauthorized taking* of listed species and applies to Federal and non-Federal activities. Additionally, endangered species and their habitats are protected by Section 7(a)(2) of the ESA, which requires Federal agencies, in consultation with the U.S. Fish and Wildlife Service (Service), to ensure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. An assessment of the potential direct, indirect, and cumulative impacts is required for all Federal actions that may affect listed species. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take"* any listed species without appropriate authorizations from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.
Project construction or implementation should not commence until all requirements of the ESA have been fulfilled. If you have any questions or require further assistance regarding threatened or endangered species, please contact the Endangered Species Program at (607) 753-9334. Please refer to the above document control number in any future correspondence.
Endangered Species Biologist:Sandra Doran
*Under the Act and regulations, it is illegal for any person subject to the jurisdiction of the United States to take (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife

species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife.

BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT Appendix K **Documentation Concerning Disposal of Investigation-derived Wastes**



CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE DIS 🖂

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Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

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WASTE MANAGEMENT DIVISION



FPA Form 8700-22 (Ray 0/99)

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

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NYG2849931

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS



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HAZARDOUS WASTE MANIFEST

WASTE MANIFEST		Albany, New		4414		(*1422	rdous Waste Manifest 1/5/99)
THE MANUELL	Generator's US EPA ID No.	Manifest Do	oc. No.	2. Page	I of Informat	ion within quired by I	heavy bold line Federal Law.
	N Y D 0 0 2 4 6 6 6 2	9 0 4:9.9	3 1	1			
3.Generator's Name and Mailing Add	ress Buell Automatics,	Inc.	^			0.00	
	381 Buell Road Rochester NY 14624				NYG 28		31
4. Generator's Telephone Number (5			В	Genero	otor's ID S,	AME	
5. Transporter 1 (Company Name)	16. US EPA ID Numb	er	C	State T	ransporter's ID	A E -	3901 KY
7 (Yansporter 2 (Company Name)	k Service N Y D 9 8 2	2 7 9 2 8	1 4 0	. Iranspo	orier's lelephone	(716)	284-2132
CCUIRON	OHROU		E.	State Tr	ansporter's ID		
9. Designated Facility Name and Site	Address			State F	rter's Telephone acility ID	1334	478-8870
General Environment	al Management LLC	bei	ľ		aciny io		
2655 Transport Rd. Cleveland OH 44115	0.77.70.00.0		H	Facility	Telephone ((2)	6) 62	1-3694
11. US DOT Description (Including Pro	Per Shipping Name, Hazard Class and	1D Number 1	1 2 12. Cont		12 7.11		
			Number		13. Total Quantity	14. Unit	
d. Hazardous Waste, L	iquid, n.o.s. EPA# DO	043,F002		1,000	Godiniy	771/761	I. Waste No. EPA D040
(1040,1043,1002)	9, NA3082, III		004	D M	00220	G	STATE
b.					UUZZU		EPA
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1 Additional Parent is 7 to 1							
J. Additional Descriptions for Materials	listed Above		1	K. Har	ndling Codes for	Wastes Lie	and About
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To bland and Madiga Address		0			-			
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381 Burd Road Rochester NY 14824		1		US EPAID N	-whee			
	<u> </u>	va.	المبيلا	I N	JDD:	54126	164	
Emmourer 1 Company Name	266	ž		U.S. EPAID N				
Freshold Caringo, Inc. Transporter 2 Company Name				I NAME	4.16	1		1
EN MARK PRIOR DELVE	<u></u>			U.S. EPAID H	umber			
Designated Facility Here's and She Address Michigan Disposal Waste Treatment Plant 4830 N. 194 Service Drive					4100	0072	4831	
	Class, ID Number,	10. Contain		11 Total Quantity	12. Unit WL/Vol.	13.	Waste Codes	
Sa. U.S. DOT Description (including Proper Shipping Name, Hazard) and Packing Group (it any))		No.	Тура	 	1	F002	D029	DO
1. RQ Hazardous Weste, Liquid, n.o.s.					۱.	0043		
	7 A	1005	DM	00275	G	1	0040	
A MARCHE BI (LALOS, LOURO, LACON)	4)			1	1	F002		
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BUELL AUTOMATICS REMEDIAL INVESTIGATION REPORT Appendix L

Detailed Description of VOC Analysis Results for RI Soil Samples

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Detailed Description of VOC Analysis Results for RI Soil Samples

The following discussion of the laboratory VOC analysis results for soil samples is presented in the order in which the various soil sampling programs were conducted.

May 2002

In May 2002, soil samples from four monitoring well soil borings (MW-7, MW-8, MW-12 and MW-13) were submitted for TCL VOC analysis by ASP method 95-1. As shown in Table 10, with the exception of acetone, no VOCs were detected in the soil samples from the borings for wells MW-12 and MW-13. Acetone was detected in the method blank and, consequently, the reported results were flagged with a "B" qualifier and therefore the acetone is considered to be a laboratory-derived artifact. Sample BU-MW7-S also contained trace levels of acetone (which was flagged with a "B" qualifier) and carbon disulfide.

BU-MW8-S (collected at 16-18 ft. bgs) contained VOCs exceeding SCOs for the protection of groundwater. MW-8 is located off-Site on the adjacent 385 Buell Road property (former All-Around Travel) and downgradient from MW-2. Five TCL VOCs were detected at MW-8, including four chlorinated compounds and acetone (which was flagged with a "B" qualifier). TCE and its breakdown product cis-1,2-dichloroethene (cis-1,2-DCE) were reported in soil at MW-8 at concentrations that exceed SCOs for protection of groundwater. However, none of the compounds were reported at concentrations that exceed the SCOs for industrial use.

August 2002

Soil samples from five monitoring well soil borings (MW-2D, MW-6, MW-9, MW-10 and MW-11) and 11 Geoprobe borings (B-8, B-9, B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17 and B-18) were submitted for TCL VOC analysis by ASP method 95-1.

As shown in Table 10, only BU-MW10-S (collected at 8-10 ft. bgs) contained VOCs exceeding SCOs for the protection of groundwater in the monitoring well soil borings. MW-10 is located on-site along the exterior west building wall of the Buell facility. Seven chlorinated VOCs were detected at MW-10, including three that exceed SCOs for protection of groundwater: TCE; and its breakdown products cis-1,2-DCE; and vinyl chloride (VC). However, none of the compounds were reported at concentrations that exceed the SCOs for industrial use.

As shown in Table 11, with the exception of acetone, chlorinated hydrocarbons constitute the majority of the detected compounds in the August 2002 Geoprobe borings. Petroleum-related VOCs (i.e., ethylbenzene and xylenes) were detected in some samples, but at concentrations that were considerably lower than the levels of the chlorinated compounds, and well below SCOs.

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Three of the Geoprobe borings (B-8, B-9 and B-11) contained four chlorinated VOCs exceeding SCOs for the protection of groundwater: TCE; cis-1,2-DCE; VC; and 1,1,1-trichloroethane (1,1,1-TCA). Geoprobe boring B-11 was located outside the Buell facility along the south building wall, east of existing monitoring well MW-2. Borings B-8 and B-9 were interior borings located in the area of the former trench drain. The area including B-8 was subsequently excavated during the IRM. The concentration of TCE in soil from B-8 also exceeded the SCO for industrial use prior to its removal.

Total concentrations of petroleum-related tentatively identified compounds (TICs) >10,000 ug/kg were reported in eight of the Geoprobe samples (B-8, B-9, B-10, B-11, B-13, B-15, B-17 and B-18). However, no SCOs have been promulgated by the Department for TICs.

February 2003

In February 2003, soil sample results from soil borings for monitoring wells MW-14 and MW-15, located on the Five Star Tool Co. property, 383 Buell Road, were submitted for TCL VOC analysis. As shown in Table 10, with the exception of trace levels of acetone, no VOCs or TICs were reported in the soil samples from MW-14 and MW-15.

May 2003

In May 2003, soil samples from Geoprobe borings B-19 through B-34 were submitted for TCL VOC analysis by ASP method 95-1. This series of Geoprobe borings included interior and exterior borings. Boring locations are shown on Figure 4.

As shown in Table 11, with the exception of acetone, chlorinated VOCs constituted the majority of the detected compounds. Petroleum-related VOCs (i.e. ethylbenzene and xylenes) were detected in some samples, but at concentrations that were considerably lower than the levels of the chlorinated compounds and well below SCOs.

Geoprobe borings B-19, B-23, B-24 and B-26 contained between one and four chlorinated VOCs exceeding SCOs for the protection of groundwater, including TCE; cis-1,2-DCE; 1,1-dichloroethane (1,1-DCA); and 1,1,1-trichloroethane (1,1,1-TCA). Boring B-19 was located in an interior room used for the recycling of metal cuttings. Geoprobe boring B-19 was reported to contain a comparatively low TCE concentration of 1,900 ug/kg.

Borings B-24 and B-26 were interior borings located in the area of the former trench drain. The area which included B-26 was subsequently excavated during the IRM. B-24 had a relatively low concentration of 360 ug/kg cis-1,2-DCE. Geoprobe boring B-23 was on the exterior west side of the facility, located in the former drum storage source area.

Of these four borings (B-19, B-23, B-24 and B-26), only TCE in boring B-23 exceeded the SCO for industrial use at a concentration of 820,000 ug/kg. The newly identified

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source area at B-23 required further delineation to the north and west in September 2005.

Petroleum-related VOC TICs were reported at total concentrations >10,000 ug/kg in six of the 16 samples (B-19, B-23, B-28, B-29, B-32 and B-34). However, no SCOs have been promulgated by the Department for TICs.

December 2003 - January 2004

The following excerpts are taken from the March 2004 IRM Final Engineering Report and include discussion of the analytical results from the IRM Geoprobe soil samples and confirmatory samples. These results were compared to the TAGM 4046 RSCOs that were in effect at the time the IRM was performed. Soil analytical summary tables from the IRM Report are included in Appendix E.

IRM Soil Boring Activities

Due to the presence of the secondary concrete slab at the northern portion of the IRM excavation footprint, four Geoprobe borings (GP-1 through GP-4) were advanced through the secondary concrete slab to evaluate underlying conditions in that area prior to proceeding with the removal of the secondary concrete slab. The Geoprobe boring locations are shown on Figure 5.

The soil samples were submitted to Columbia Analytical Services for expedited analysis of TCL VOCs and TICs. Preliminary analytical results were provided and indicated that impacts from chlorinated VOCs were limited at the northern extent of the excavation footprint both horizontally and vertically. As a result, soil removal at the northern limit of the original IRM excavation footprint was slightly modified as approved by the Department.

At the completion of the IRM excavation activities, six (6) additional Geoprobe borings (GP-5 through GP-10) were advanced within the southern portion of the excavated area to evaluate the vertical extent of impacts below the excavated depth. Five (5) soil samples were submitted to Columbia for laboratory analysis from these borings. The boring locations are shown on Figure 5.

The analytical results from soil samples collected from the northern IRM Geoprobe borings GP-1 through GP-4 indicate that TCE and related solvent impacts above the RSCOs were present in the 1 – 4 ft. bgs interval at the GP-3 location. This material was removed as part of the IRM excavation program. At depths beyond the extent of soil removal in the northern portion of the excavation footprint, no individual VOC was reported above the Department's RSCOs that were in effect at that time (TAGM 4046); however, the total TIC concentration in samples from the GP-2, 5-7 ft. bgs interval and the GP-3, 8-9 ft. bgs interval were above the RSCO of 10,000 ppb for total VOCs.

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Review of the TIC data from these two samples indicated the individual compounds were petroleum derived, and not chlorinated solvent derived compounds.

The analytical results from the soil samples collected from IRM Geoprobe borings GP-5 through GP-10 indicated TCE impacts above RSCOs at depths of 7.5 to 9.5 ft bgs beneath the southern portion of the remediated area. Soil boring samples from depths greater than 10 ft bgs in that area indicated that the concentrations of TCE and related chlorinated VOCs decreased significantly at these depths to levels which were below RSCOs.

Recovery Well Installations

Subsequent to backfilling, SLC installed two, six-inch stainless-steel wells within the excavation footprint. Wells RW-1 and RW-2 were placed near the northwestern and southeastern corners of the excavation areas respectively, where product was observed during soil removal activities. The wells extended to the bottom of the excavated area (~6.5-7 ft. bgs) and were finished with road boxes so they would be flush with the grade of the restored concrete floor. Well locations are shown on Figure 5.

One (1) soil sample was collected from the bottom of the RW-1 location, prior to the installation of the recovery well. The soil sample was submitted to Columbia for analysis of TCL VOCs and TICs. The soil analytical results indicate that the three detected compounds in the RW1-BOTT sample - TCE, VC and Acetone - were all at concentrations well below their respective RSCOs. The DEC sample from the same location and depth indicated comparable findings.

Confirmatory Soil Samples

Confirmatory soil samples were collected at the limits of the excavation and submitted for laboratory analysis. Six (6) soil samples (grab samples) were proposed in the Revised IRMWP to be collected from the excavation area (four sidewall samples and two bottom samples) during trenching for the proposed excavation support wall. These samples plus a matrix-spike, a matrix-spike duplicate, a duplicate, a rinse blank and a trip blank were proposed for analysis of TCL VOCs and TICs using ASP.

Given the unanticipated Site conditions encountered during initial trenching activities, the excavation support walls were not needed. As a result, trenching around the perimeter of the excavation area was not conducted, and confirmatory soil samples were subsequently collected during the course of the excavation activities. Additional sidewall and bottom samples were collected as deemed necessary to appropriately characterize shallow and deep soil conditions based on contaminant impacts observed in the field.

A total of 13 confirmatory soil samples were taken from the completed excavation area for laboratory analysis. Eight (8) sidewall samples were collected from the lateral limits of the remedial excavation area. One (1) of these eight sidewall samples was collected

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from the west wall of the original excavation, prior to additional soil removal that was performed in the southwesterly direction. Two (2) soil samples were taken from soil that was left in place (approximately 1 cubic yard of soil) for structural stability beneath the central pier supporting the mezzanine. In addition, three (3) bottom samples were collected to evaluate residual impacts at the vertical excavation limits. Sample locations are shown on Figure 5.

The confirmatory analytical results from the north, northwest and west sidewalls of the excavation, Samples BU-NWALL-S, BU-NWWALL-SHAL-S and BU-WWALL2-S, respectively, were all below RSCOs. An interim sidewall sample collected from the west wall of the original excavation, sample BU-WWALL-S, yielded elevated TCE concentrations, however this area was subsequently excavated and disposed off-site when the excavation was extended to the southwest.

The confirmatory analytical results from the northeast sidewall of the excavation, Sample BU-NEWALL-S, were below their individual RSCOs. However, total TICs were reported above the RSCO for total VOCs.

The confirmatory analytical results from the southeast sidewall of the excavation, BU-SEWALL-S, were above RSCOs for TCE and several related chlorinated VOCs. The concentration of TCE was two orders of magnitude less than what was previously encountered in nearby boring B-8. This sampling location is situated between the removed floor drain, that was the suspected source of the most significantly affected soil, and the room that was most recently used for TCE degreasing operations. No further excavation could be performed in the easterly direction due to the presence of an interior load-bearing building wall.

The confirmatory analytical results from the south sidewall of the excavation, Samples BU-SWWALL-S (5.3 ft) and BU-SWALL-S (6.0 ft.), were below RSCOs with the exception of a slightly elevated TCE concentration in the shallower of the two samples. However, the concentration of TCE was four orders of magnitude less than what was previously encountered in nearby boring B-8. No further excavation could be performed in this southerly direction due to the presence of the exterior load-bearing building wall.

Pier Sidewall Samples

The confirmatory analytical results from the two sidewall samples collected from the estimated one cubic yard of soil that was left in place to support the mezzanine pier, BU-PIER-NSHAL-S (2.8 ft.) and BU-PIER-NMID-S (5.0 ft.), were below RSCOs with the exception of TCE in the shallow sample and total VOC TICs for both samples. Once again, further excavation in this area could not be performed since the soil beneath the pier was supporting the mezzanine. Given the absence of elevated TCE concentrations in the deeper sample, it appears that only a small quantity of shallow TCE impacted soil remains in this location.

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Bottom Samples

The confirmatory analytical results from the three bottom samples, BU-NWWALL-BOTT-S, BU-WBOTT-S and BU-SEBOTT-S, were below RSCOs for two of the three samples. Only the southeast bottom sample, BU-SEBOTT-S, was reported to contain concentrations of TCE and its related chlorinated VOCs above their respective RSCOs. This sampling location was situated in close proximity to the former floor drain which was the suspected source of the most significant impacts. Excavation to further depths in this area was limited by potential building subsidence considerations. However, the residual TCE concentration was two orders of magnitude below the concentration that was previously encountered in nearby boring B-8.

In summary, based on the confirmatory analytical results, the IRM excavation program achieved its intended goal of removing the most affected source area soils given the limitations imposed by the building and its related structural components.

September 2005

Ten additional Geoprobe borings (B-35 through B-44) were completed in the Former Loading Dock area in September 2005. Boring locations are shown on Figure 4.

As shown in Table 11, Geoprobe borings B-35, B-36, B-39, B-40, B-42 and B-43 contained six chlorinated VOCs exceeding SCOs for the protection of groundwater, including TCE; 1,1-DCA; 1,1-DCE; cis-1,2-DCE; 1,1,1-TCA; and VC. The boundaries of these impacts were defined by borings B-37, B-38, B-41 and B-44 completed to the north and west of the Former Loading Dock area. Samples collected at depth in B-35, B-39 and B-40 defined the extent of contamination to be approximately 6 to 8 ft. bgs.

A total VOC TIC concentration >10,000 ug/kg was reported from the shallow interval (2-3.5 ft. bgs) of B-35, only. However, no SCOs have been promulgated by the Department for TICs.

November 2005

Monitoring wells MW-16, MW-17 and MW-18 were installed in November 2005. Monitoring well locations are shown on Figure 4.

As shown in Table 10, six chlorinated VOCs were reported in the shallow duplicate soil sample collected from MW-16 (located in the Former Loading Dock area) at concentrations which exceed their respective SCOs for the protection of groundwater. TCE was reported at 290,000 ug/Kg in the 0.5 to 2.0 ft. bgs interval at MW-16. A soil sample collected from the same boring at a depth of 9-10 ft. bgs was not reported to contain VOCs above SCOs. None of the compounds in MW-16 were reported at concentrations that exceed the SCOs for industrial use. A total VOC TIC concentration

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>10,000 ug/kg was reported for sample MW-DUP, collected from the 0.5 to 2.0 ft. bgs interval at MW-16.

As shown in Table 10, with the exception of a trace acetone concentration, no VOCs or TICs were reported for the samples collected from borings MW-17 and MW-18 on the 1166 Brooks Avenue parcel.

Appendix M

Fish and Wildlife Resources Impact Analysis Decision Key

(presented on the following page)

APPENDIX 3C

Fish and Wildlife Resources Impact Analysis Decision Key

			
		If YES Go to:	If NO Go to:
1.	Is the site or area of concern a discharge or spill event?	13.	2.
2.	Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13.	3
3.	Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4.	9.
4.	Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5.
5.	Has the contamination gone off site?	6.	14.
6.	Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7.	14.
7.	Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8.
8.	Does contamination exist at concentrations that could exceed SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14.
9.	Does the site or any adjacent or downgradient property contain any of the following resources? a. Any endangered, threatened or special concern species or rare plants or their habitat b. Any NYSDEC designated significant habitats or rare NYS Ecological Communities c. Tidal or freshwater wetlands d. Stream, creek or river e. Pond, lake, lagoon f. Drainage ditch or channel g. Other surface water feature h. Other marine or freshwater habitat i. Forest j. Grassland or grassy field k. Parkland or woodland l. Shrubby area		
	m. Urban wildlife habitat n. Other terrestrial habitat	11.	10.
10.	Is the lack of resources due to the contamination?	Section 3.10.1	14.
11.	Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14.	12.
12.	Does the site have widespread soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	13.
13.	Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact NYSDEC for information regarding endangered species.)	Section 3.10.1	14.
14.	No Fish and Wildlife Resources Impact Analysis needed.		