

# **SUBSURFACE SITE INVESTIGATION**

**Jo Lyn Enterprises, Ltd.  
21 Valley Street  
Mayville, New York 14757**

**NYSDEC Designation & Identification  
Standard Portable Site #C907030**

Prepared by:  
**Hazard Evaluations, Inc.**  
3836 North Buffalo Road  
Orchard Park, New York 14127

Revised December 2006



## **SUBSURFACE SITE INVESTIGATION**

**Jo Lyn Enterprises, Ltd.**

**21 Valley Street**

**Mayville, New York**

### **Introduction**

In accordance with an agreement, dated May 8, 2006, Hazard Evaluations, Inc. (HEI) completed a focused Subsurface Site Investigation (SSI) at the above-referenced (subject) site (Figure 1, Attachment 1). This SSI was completed to provide additional data and information concerning the subsurface condition of the subject site, at which a historic release of Trichloroethene occurred from a historic septic tank. Preliminary site subsurface data were provided in a Phase II ESA report by LCS, Inc., dated September 23, 2002. HEI's SSI addressed the following: 1) A more thorough characterization of Volatile Organic Compounds (VOCs) within the on-site soil profile, both vertically and laterally; 2) Water table elevations and the approximate on-site groundwater flow direction; 3) Definition of the shallow contaminant plume on-site with respect to site boundaries; 4) Condition of the subfloor soil/fill beneath a portion of the facility; and 5) Identification of any "hot spots" within the soil profile in the impacted zone, including any areas exhibiting dense non-aqueous phase liquid (DNAPL) product.

### **Site History**

Jo Lyn Enterprises owns and operates the facility, which is located at 21 Valley Street, Village of Mayville, Chautauqua County, New York. This parcel of land consists of approximately 1.06 acres of land located within the lake plain across Route 394 along the western side of Chautauqua Lake. Historically, the facility was operated by Wappat Saw Company. Later the facility was operated as Standard Portable Products, Inc. One or more of the prior owners reportedly performed various metal working operations, including vapor degreasing using a Trichloroethene (TCE) degreasing unit. It is understood that the spent TCE solvent from this unit was disposed of or stored in an exterior underground septic tank.

The current owner, Jo Lyn Enterprises Ltd. d/b/a Standard Portable ("Jo Lyn"), purchased certain assets including the facility in 1996 and began manufacturing operations. Pre-purchase due diligence investigations identified a septic tank historically believed to be used as storage/disposal for TCE waste generated by the vapor degreasing unit; a remedial program was conducted by Anderson International, Inc. on Jo Lyn's behalf. It should be noted that the septic tank was removed in 1996 at the time of Jo Lyn's purchase. The waste that Jo Lyn generated in association with its use of the vapor degreaser was containerized and transported off-site for disposal. The use of the vapor degreaser continued until December 2001, when it was taken out of service and sold to Cove Four, Inc. shortly thereafter. In late 2002, Jo Lyn sought to sell the subject site, and as part of the due diligence process, a Phase II ESA was performed on behalf of the potential buyer's financial lending institution. The results of that Phase II ESA indicated significant levels of TCE contamination in the soil and groundwater in the vicinity of former septic tank.

## **General Geology and Hydrogeology**

The subject site lies within the Allegheny Plateau geographic province which is characterized by steep valley walls, wide ridge tops and flat-topped hills between drainage ways. This province is strongly influenced by the underlying bedrock, which is nearly level bedded. The site is within the lake plain of Chautauqua Lake, which is considered a Class A Navigable Water located less than 0.25 miles to the east.

The vast majority of the subject site is covered by Red Hook Silt Loam, which exists in low flats on outwash plains. Red Hook soils are acidic, nearly level, very deep and somewhat poorly drained. Slopes generally range from 0-3%. Water table may be at 0.5-1.5 feet below grade from December through May. The primary aquifer for this site is considered the saturated sands that extend to an approximate depth of 12 to 14 feet below grade. The hydraulic conductivity of these soils is estimated to be  $10^{-3}$  cm/sec. Generally, there is at least a six foot soil profile overlying the bedrock. Bedrock in the area of the site consists of the Conneaut Group portion of the Chadokoin Formation, the top 270 feet of which likely is comprised of relatively soft, interbedded gray shales and Ellicott Group siltstone. Geologic and hydrogeologic information contained in this section was derived from the USDA Soil Survey of Chautauqua County, New York, August 1994.

The floodplain of Chautauqua Lake intersects the southeast corner of the subject site, covering approximately 5-10% of the site according to the March 26, 1976 FIA Flood Hazard Boundary Map for the Village of Mayville.

According to the Chautauqua County Health Department (CCHD), the dwellings in the vicinity of the subject site have been serviced by a municipal water source since the early to mid-1900s, and there are no known private wells within the immediate vicinity (1/4-mile). The public water supply for the Village is reportedly located approximately 1/4-mile to the northwest of the subject site.

## **Soil Boring Installation and Soil Sampling**

Prior to performing any on-site activities, underground utilities were located and marked by contacting the Underground Facilities Protection Organization (UFPO). In addition, a site-specific Health & Safety Plan was developed and implemented. On May 10 and 11, 2006, a direct-push boring rig was mobilized to the subject site to install soil borings and temporary piezometers to define the nature and extent of soil and groundwater contamination. A total of fourteen push borings were installed on-site, four of which were installed beneath the on-site structure. An additional five borings were installed off-site. Figure 2 (Attachment 1) presents the soil boring locations.

At each boring location, decontaminated hollow stem sampling probes were used to obtain discrete soil samples at approximately four foot depth intervals to the bottom of each sampling location. The soil/fill encountered at each sampling location was visually described from the discrete samples obtained. Upon collection, each discrete sample was screened for the presence of VOCs using a portable

OVM. After all discrete samples for each boring had been collected; a piezometer was installed within the boring as described below.

In general, the soil at the sample locations was found to consist of a stiff, brittle, fine to very fine sand with sparse areas of medium to coarse sand and gravel to a depth of approximately 12 to 14 feet below grade (bg), below which a silt and clay material with some plasticity was encountered. The thickness of the silt and clay layer was not investigated, as it likely serves as a confining layer as evidenced by the presence of DNAPL in the sample collected from SB1 (12'-14').

**On-site Soil Borings** - Soil samples collected from three of the fourteen on-site borings exhibited very high headspace VOCs readings (maximum >500 ppm) including samples SB12, SB17 and SB18. In addition, SB14 exhibited headspace VOCs readings above 250 ppm.

**Off-site Soil Borings** - Soil samples collected from three of the five offsite borings exhibited very high headspace VOCs readings (maximum >500 ppm) including samples SB1, SB3, and SB9. In addition, SB10 exhibited headspace VOCs readings above 250 ppm.

The soil samples from the remaining 10 borings on-site and one boring off-site all exhibited VOCs headspace readings below 50 ppm. Attachment 2 presents HEI's Field Notes, which include a summary of soil sample headspace VOCs readings.

A total of eleven soil samples consisting of ten on-site samples and one offsite sample were placed in appropriate containers, preserved by cooling in the field, and submitted under standard chain-of-custody procedures to a NYSDEC-approved analytical laboratory for analysis for specific VOCs compounds of concern using USEPA Method 8260, including cis-1,2-Dichloroethene, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, 1,1,2-Trichloroethane, Trichloroethene, Vinyl chloride, Ethylbenzene, Methylene chloride, Toluene and Xylenes. Soil samples SB8 (4'-8') and SB18 (8'-12') were selected to fulfill a NYSDEC request that 10% of the samples submitted (two soil samples) for this investigation address the USEPA Method 8260 Target Compound List (TCL).

### **Groundwater Sampling**

One-inch diameter, PVC piezometers were installed in all nineteen soil borings to allow both the collection of shallow groundwater samples and the measurement of shallow groundwater surface elevations across the site. At each location, a piezometer consisting of 0.030 slotted PVC well screen and solid riser was placed to the bottom of the boring. An effort was made to install sand filter pack around the well screen to a depth at least one foot above screen, after which a Bentonite pellet seal was installed within the remainder of the boring annulus to the ground surface. The piezometers all remain in-place at ground level.

On May 12, 2006, all wellheads were vertically surveyed to a common on-site

datum to allow an approximate determination of all water surface elevations. HEI then used a decontaminated electronic water level indicator to measure the depth to water relative to each PVC wellhead. The depth to groundwater was observed to range from 1.89' bg to 4.65' bg in wells SB11 and SB4, respectively (Refer to Field Notes). Subsequent to the groundwater level measurement, each piezometer was purged using a new single-use, polyethylene bailer until reduced turbidity was observed or the well was nearly dry. Unfiltered groundwater samples were then withdrawn and placed in appropriately preserved sample jars, placed in a cooler, prepared for laboratory analysis, and handled under standard chain-of-custody procedures until received by a NYSDEC-approved analytical laboratory. A total of thirteen groundwater samples were submitted for specific VOCs compounds of concern as listed above using USEPA Method 8260. Groundwater samples collected from SB7 and SB9 were selected to fulfill a NYSDEC request that 10% of the samples submitted (two groundwater samples) for analysis by USEPA Method 8260 Target Compound List (TCL).

#### **Discussion of Field Data and Analytical Results**

In general, the analytical data indicated significant levels of Trichloroethene (TCE) at depth within the on-site and off-site soil in an area extending generally from the former septic system (SB14 and SB18) to the southeast, encompassing SB1, SB3, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB16, SB17 and SB18 (Figure 3). In addition, significant levels of TCE in the on-site and off-site groundwater were detected within the same general area, but not as widespread, encompassing SB1, SB3, SB9, SB12, SB14, SB17 and SB18 (Figure 3).

Field observations indicated decreasing levels of impact in borings relative to their distance from this significantly contaminated area (i.e., borings further from the area exhibited less or no field observable impact). The analytical results discussed below for both soil and groundwater reflect the potentially applicable New York State Department of Environmental Conservation Recommended Soil Cleanup Objectives (RSCOs), as presented in Appendix A, Table 1 of TAGM HWR-94-4046, dated January 24, 1994 (TAGM 4046) or the Ambient Water Quality Standards and Guidance Values (WQSs), as presented in TOGS 1.1.1, dated June 1998.

The laboratory analytical results of the soil samples indicated the presence of TCE at concentrations exceeding the RSCO in 9 of the 11 samples submitted, with on-site samples SB17 (8'-12') and SB18 (8'-12') exhibiting the two highest concentrations at 6,510 µg/kg and 8,720 µg/kg, respectively (RSCO = 700 µg/kg). The soil samples for SB10 (12'-14') (which is offsite) and SB17 (12'-14') (which is on-site) exhibited the two lowest TCE concentrations measuring 468 µg/kg and 592 µg/kg, respectively (Figure 3). Table 1 (Attachment 3) presents a summary of the soil analytical results. It should be noted that many of these results were identified as being "Estimated Values" due to concentrations exceeding the calibration range; however, the laboratory indicated that these concentrations are routinely within 15%-20% of the actual concentration when rerun under appropriate dilutions. For the purposes of this project, HEI has assumed that these data are adequate. The laboratory analytical results are presented in Attachment 4. It should also be noted

that no additional parameters were detected in the TCL analysis that was completed at the NYSDEC's request.

All 13 groundwater samples submitted for laboratory analysis exhibited TCE concentrations exceeding the WQS of 5 µg/l (Figure 3). Two of the three most impacted wells were found offsite at SB1 and SB9 with TCE concentrations of 132,000 µg/l, 134,000 µg/l respectively. The most impacted well was on-site at SB18 with 152,000 µg/l. Groundwater from the on-site wells including SB2, SB5 and SB7 exhibited the lowest levels of TCE, with concentrations of 14.6 µg/l, 18.4 µg/l and 30.5 µg/l, respectively.

It should be noted that during the purging of the off-site well SB1, free phase DNAPL was recovered; however, only the aqueous portion of the recovery was submitted for laboratory analysis. Table 2 (Attachment 3) presents a summary of the groundwater analytical results. The laboratory analytical results are presented in Attachment 4. It should also be noted that no additional parameters were detected in the extra TCL analysis that was completed at the NYSDEC's request.

The analytical data generally support the field observations and headspace screenings made with regard to the soil profile with TCE concentrations decreasing as the distance increased from the significantly impacted area. However, the analytical results obtained for soil samples from SB5, SB8 and SB13, which were assumed in the field to be "clean" (i.e., below the RSCOs), identified TCE concentrations above the TCE RSCO.

The groundwater levels detected in the piezometers were relatively shallow, ranging in depth from 1.89' to 4.65' bg. The groundwater flow direction was relatively pronounced toward the southeast (Chautauqua Lake), with a maximum head differential of 4.43' being observed between SB7 and SB2 (a distance of approximately 230 feet). Figure 4 presents a depiction of the estimated groundwater flow gradient and direction. The fine sandy soil appeared to exhibit a moderate hydraulic conductivity based on the observations made during the purging of the selected wells. However, many of the wells were observed to have poor recharge due to fine sand filling the bottom portion of the wells, which was a result of field conditions that prohibited the installation of effective sand-packs.

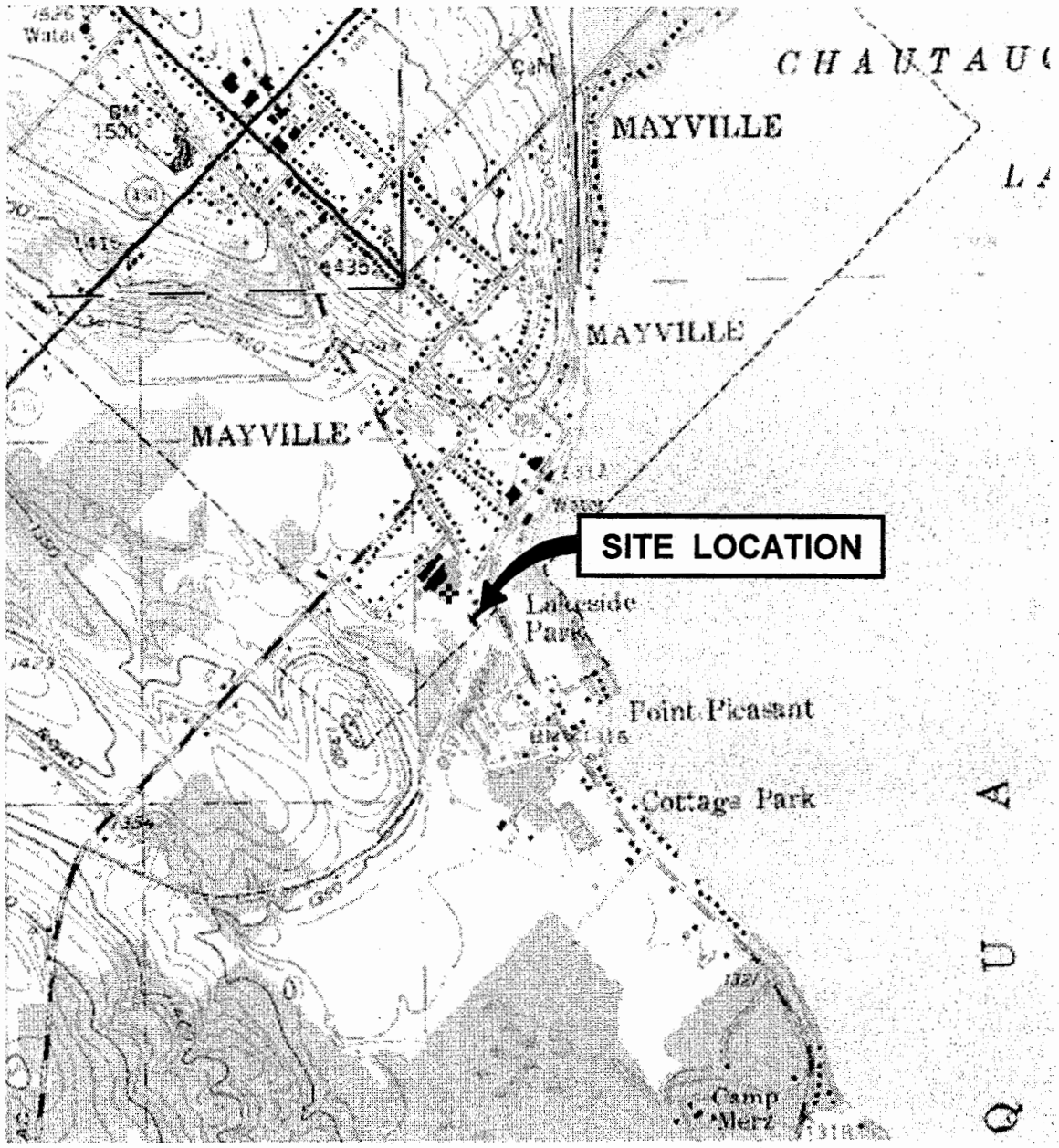
### **Summary**

The results of this SSI have revealed well-defined areas of soil and groundwater contaminated with TCE. In addition, recoverable free phase DNAPL was observed off-site in the vicinity of SB1, which is located along the southeastern border of the subject site. Based on the relatively pronounced gradient of the shallow groundwater to the southeast toward Chautauqua Lake, HEI suspects the impacted soils within the defined plume area primarily represent the result of solvent transport via groundwater flow from the identified source area, as well as limited dispersion and diffusion effects. The impacted groundwater plume identified on-site which extends off-site would be the result of the same physical processes.

**Attachment 1**

**Figures**

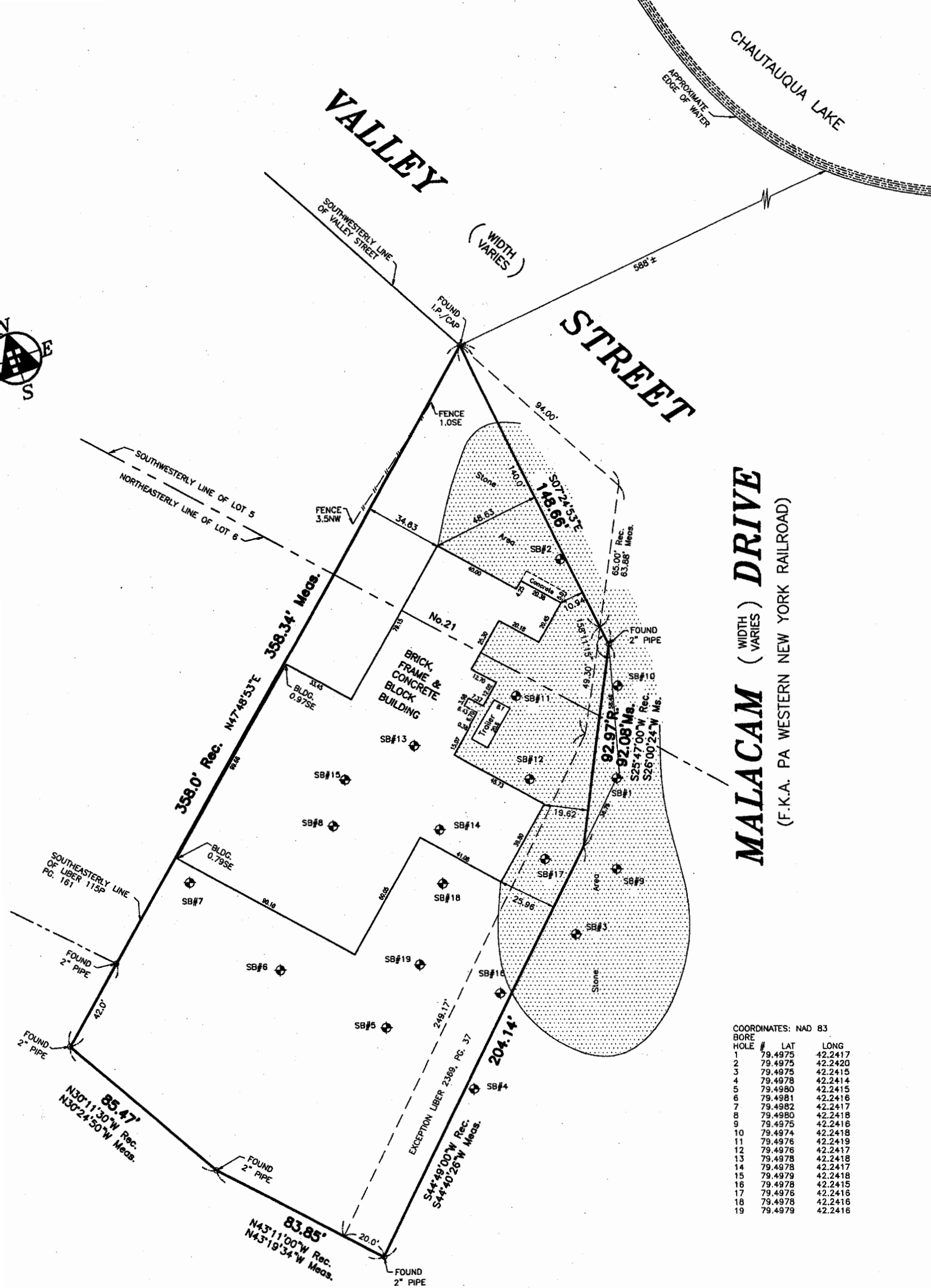




THIS DRAWING IS FOR ILLUSTRATIVE AND INFORMATIONAL PURPOSES ONLY AND WAS ADAPTED FROM USGS, ANGOLA, NEW YORK QUADRANGLE (TOPOZONE.COM).



|  |                     |                |
|--|---------------------|----------------|
| <b>HAZARD EVALUATIONS, INC.</b><br><i>Phase I/II Audits - Site Investigations - Facility Inspections</i> |                     |                |
| <b>SITE LOCATION PLAN</b><br><b>JO LYN ENTERPRISES, LTD.</b><br><b>MAYVILLE, NEW YORK</b>                |                     |                |
| DRAWN BY: DLW  | SCALE: NOT TO SCALE | PROJECT: 15208 |
| CHECKED BY: CMH  | DATE: 12/06         | DRAWING NO: 1  |



**MALACAM (WIDTH VARIES) DRIVE**  
 (F.K.A. PA WESTERN NEW YORK RAILROAD)

COORDINATES: NAD 83

| BORE HOLE # | LAT     | LONG    |
|-------------|---------|---------|
| 1           | 79.4975 | 42.2417 |
| 2           | 79.4975 | 42.2420 |
| 3           | 79.4975 | 42.2415 |
| 4           | 79.4978 | 42.2414 |
| 5           | 79.4980 | 42.2415 |
| 6           | 79.4981 | 42.2416 |
| 7           | 79.4982 | 42.2417 |
| 8           | 79.4980 | 42.2418 |
| 9           | 79.4975 | 42.2418 |
| 10          | 79.4974 | 42.2418 |
| 11          | 79.4976 | 42.2419 |
| 12          | 79.4976 | 42.2417 |
| 13          | 79.4978 | 42.2418 |
| 14          | 79.4978 | 42.2417 |
| 15          | 79.4979 | 42.2418 |
| 16          | 79.4978 | 42.2415 |
| 17          | 79.4976 | 42.2416 |
| 18          | 79.4978 | 42.2416 |
| 19          | 79.4979 | 42.2416 |

INC. HAS RECEIVED PERMISSION FROM FOIT-ALBERT  
 S BASE DRAWING, JOB NO. 08-31317, DATED JUNE 30, 2006;  
 HIS SUBSURFACE SITE INVESTIGATION REPORT.

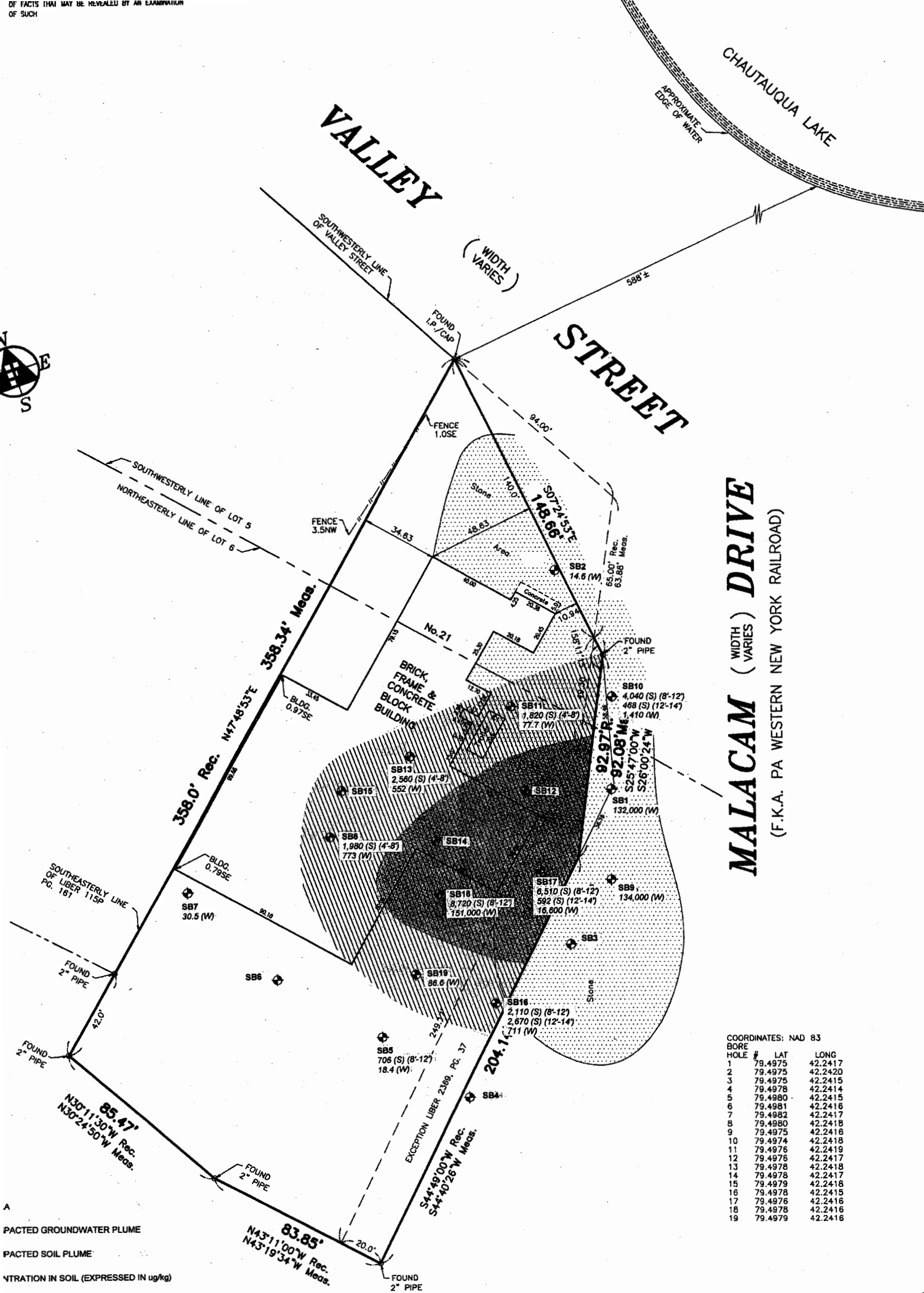
|  |                |
|--|----------------|
| <b>ARD EVALUATIONS, INC.</b>                     |                |
| its - Site Investigations - Facility Inspections |                |
| <b>L BORING LOCATION PLAN</b>                    |                |
| LYN ENTERPRISES, LTD.<br>MAYVILLE, NEW YORK      |                |
| SCALE: 1" = 30'                                  | PROJECT: 15208 |
| DATE: 12/06                                      | DRAWING NO: 2  |

|   |                         |
|---|-------------------------|
| LOCATION: VILLAGE OF MAYVILLE           | SCALE: 1" = 30'         |
| COUNTY OF CHAUTAUQUA, STATE OF NEW YORK | DRAWN BY: O. A. REYES   |
| PART OF LOTS 5 & 6                      | CHECKED BY: B. E. WELLS |
| OF THE HOLLAND LANDS COMPANY'S SURVEY   | RESURVEY                |
| MAP COVER:                              |                         |
| SUBLOT(S):                              |                         |
| REVISIONS: 9/28/06 COORDINATES ADDED    |                         |
| DATE: JUNE 30, 2006                     | JOB No.: Q6-31317       |
|   | NO COR. MON. SET        |

**Foitt-Albert**  
 Architecture, Engine  
 763 Main Street,  
 SUCCESSOR TO THE  
 PHONE: (716) 856

Unauthorized alteration or addition to any survey, drawing, design, specification, plan or report is a violation of Section 7209, Provision 2 of the New York State Education Law. Only copies from the original of this survey map marked with an original of the land surveyor's embossed seal and signature shall be considered to be valid true copies.

OF FACTS THAT MAY BE REVEALED BY AN EXAMINATION OF SUCH



**MALACAM (WIDTH VARIES) DRIVE**

(F.K.A. PA WESTERN NEW YORK RAILROAD)

COORDINATES: NAD 83

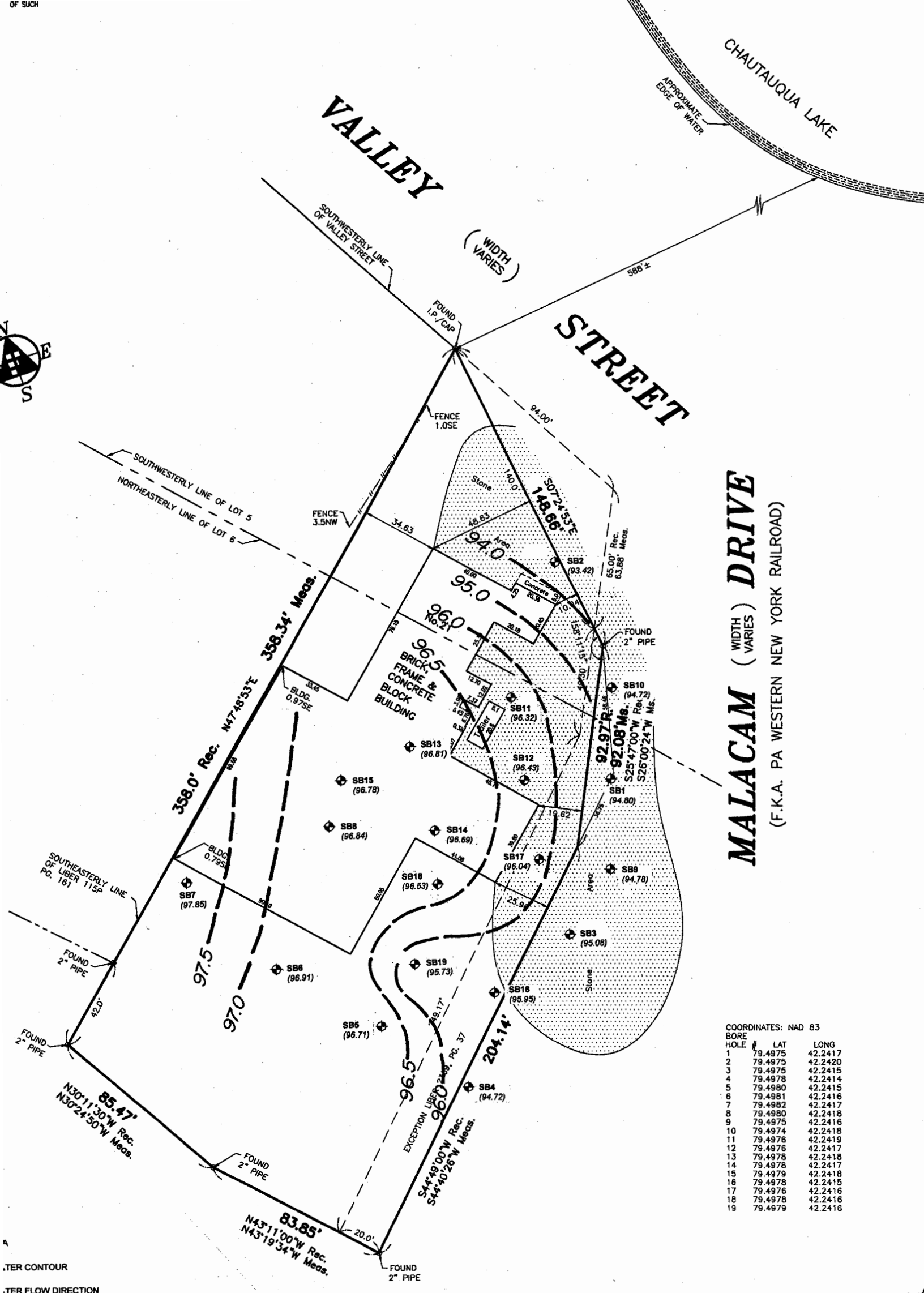
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| 7           | 79.4982 | 42.2417 |
| 8           | 79.4980 | 42.2418 |
| 9           | 79.4975 | 42.2418 |
| 10          | 79.4974 | 42.2418 |
| 11          | 79.4976 | 42.2419 |
| 12          | 79.4976 | 42.2417 |
| 13          | 79.4978 | 42.2418 |
| 14          | 79.4978 | 42.2417 |
| 15          | 79.4979 | 42.2418 |
| 16          | 79.4978 | 42.2415 |
| 17          | 79.4976 | 42.2416 |
| 18          | 79.4978 | 42.2416 |
| 19          | 79.4979 | 42.2416 |

PACKED GROUNDWATER PLUME  
 PACKED SOIL PLUME  
 CONTAMINATION IN SOIL (EXPRESSED IN ug/kg)  
 CONTAMINATION IN GROUNDWATER (EXPRESSED IN ug/L)

FOIT-ALBERT HAS RECEIVED PERMISSION FROM FOIT-ALBERT TO USE THIS AS A BASE DRAWING, JOB NO. 06-31317, DATED JUNE 30, 2006; THIS SUBSURFACE SITE INVESTIGATION REPORT.

|  |                |
|--|----------------|
| <b>FOIT-ALBERT EVALUATIONS, INC.</b><br>Site Investigations - Facility Inspections     |                |
| <b>APPROXIMATE TCE PLUME AREAS</b><br>MAYVILLE ENTERPRISES, LTD.<br>MAYVILLE, NEW YORK |                |
| SCALE: 1" = 30'  | PROJECT: 15208 |
| DATE: 12/06  | DRAWING NO: 3  |

|   |  |   |
|---|--|---|
| LOCATION: VILLAGE OF MAYVILLE<br>COUNTY OF CHAUTAUQUA, STATE OF NEW YORK<br>PART OF LOTS 5 & 6<br>OF THE HOLLAND LANDS COMPANY'S SURVEY | SCALE:<br>1" = 30'<br>DRAWN BY:<br>O. A. REYES | <br><b>Foit-Albert</b><br>Architecture, Engineers<br>763 Main Street,<br>MAYVILLE, NY 14756<br>SUCCESSOR TO THE<br>FOIT-ALBERT SURVEYING & ENGINEERING CO.<br>PHONE: (716) 856-1111   |
| MAP COVER:<br>SUBLOT(S):  | CHECKED BY:<br>B. E. WELLS                     |   |
| REVISIONS: 9/28/06 COORDINATES ADDED  | RESURVEY                                       | Unauthorized alteration or addition to any survey, drawing, design, specification, plan or report is a violation of Section 7205, Provision 2 of the New York State Education Law. Only copies from the original of this survey map marked with an original of the land surveyor's embossed seal and signature shall be considered to be valid true copies. |
| DATE: JUNE 30, 2006   | JOB No.: 06-31317                              |   |



**MALACAM (WIDTH VARIES) DRIVE**  
 (F.K.A. PA WESTERN NEW YORK RAILROAD)

COORDINATES: NAD 83

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| 17          | 79.4976 | 42.2416 |
| 18          | 79.4978 | 42.2416 |
| 19          | 79.4979 | 42.2416 |

WATER CONTOUR  
 WATER FLOW DIRECTION

FOIT-ALBERT HAS RECEIVED PERMISSION FROM FOIT-ALBERT AS THE BASE DRAWING, JOB NO. 06-31317, DATED JUNE 30, 2006; THIS SUBSURFACE SITE INVESTIGATION REPORT.

**GROUND EVALUATIONS, INC.**  
 Site Investigations - Facility Inspections

**UNDERWATER CONTOUR MAP**  
 LYN ENTERPRISES, LTD.  
 MAYVILLE, NEW YORK

SCALE: 1" = 30' PROJECT: 15208  
 DATE: 12/06 DRAWING NO: 4

|  |                         |   |
|--|-------------------------|---|
| LOCATION: VILLAGE OF MAYVILLE                            | SCALE: 1" = 30'         | <b>Foit-Albert</b><br>Architecture, Engineers<br>763 Main Street, E<br>SUCCESSION TO THE R<br>PHONE: (716) 856-   |
| COUNTY OF CHAUTAUQUA, STATE OF NEW YORK                  | DRAWN BY: O. A. REYES   |   |
| PART OF LOTS 5 & 6 OF THE HOLLAND LANDS COMPANY'S SURVEY | CHECKED BY: B. E. WELLS | Unauthorized alteration or addition to any survey, drawing, design, specification, plan or report is a violation of Section 7209, Provision 2 of the New York State Education Law. Only copies from the original of this survey may be marked with an original of the land surveyor's embossed seal and signatures shall be considered to be valid true copies. |
| MAP COVER:   | RESURVEY                |   |
| SUBPLOT(S):  |                         |   |
| REVISIONS: 9/28/06 COORDINATES ADDED                     |                         |   |
| DATE: JUNE 30, 2006                                      | JOB No.: 06-31317       | NO COR. MON. SET  |

**Attachment 2**

**Field Notes**

Date 5/10/06 No. 15207  
Client Phillips Lytle (Mayville)  
Subject SSF  
Weather Sunny Temp. 75°-80°

Hazard Evaluations, Inc.  
3836 N. Buffalo Rd.  
Orchard Park, NY 14127  
(716) 667-3130

### FIELD INVESTIGATION REPORT

Travelling to subject site. Met employee of the owner who gave me a basic tour of building and explained the property orientation. She called the owner and obtained a survey of the property. The property was smaller than anticipated. Based on this map, HEI marked the boring locations on the site as best as possible. Calibrated the OVM. Set up decon drum and soil boring spoil drum. Zebru arrived on the site. Began borings.

| <u>SR1</u>  | <u>OVM Reading Underlined (ppm)</u> |
|---|-------------------------------------|
| 0'-4' (0'-2') Mixed stone, sand, and asphalt type fill  | } <u>&gt;2,000</u>                  |
| (3'-3.5') Soft black f sand fill  |                                     |
| (3.5'-4.0') Soft brown/gray vf sand   |                                     |
| 4'-8' (4'-7.5') Well graded vf sand + silt. Brown with orange mottling. Wet obvious odor, brittle   | } <u>&gt;2,000</u>                  |
| (7.5'-8') Similar soil but gray. Odor, Brittle  |                                     |
| 8'-12' (8'-9') Brn f sand, wet, brittle.  | } <u>&gt;2,000</u>                  |
| (9'-10') Soft very loose silt + f sand, brown + gray  |                                     |
| (10'-12') m+f brown + gray sand, brittle, wet, product observed in sleeve, obvious odor   |                                     |
| 12'-14' (12'-13') Brn + gray vf sand, wet to cm sand, loose much free product   | } <u>&gt;2,000</u>                  |
| (13'-14') Light gray silty clay layer grading back to layers of vf sand + silt. Assumed confining layer. Clay and silt is stiff while vf sand + silt is more brittle. |                                     |

Signature [Signature] Title PM

Date 5/10/06 No. 15207  
 Client Phillips Lytle (Maysville)  
 Subject SSI  
 Weather Sunny Temp. 75°-80°

Hazard Evaluations, Inc.  
 3836 N. Buffalo Rd.  
 Orchard Park, NY 14127  
 (716) 667-3130

**FIELD INVESTIGATION REPORT**

SB1 Well installed to 14'. 10' screen and 4' riser.  
 Sand or cave-in to above screen with bentonite to surface.

Note: All wells are 2-inch diameter schedule 40 PVC. Screen is 30-slot. No roadboxes installed.

SB2  
 0'-4' (0'-2') Stone and silt fill. }  
 (2'-3') Brown vt sand and silt, brittle. } 4  
 (3'-4') Wet brn + dark gray sand, soft. }  
 4'-8' (4'-6') Brown with some orange mottling vt sand, wet. } 3  
 (6'-8') Gray brittle vt and f sand, wet. }  
 8'-12' (8'-9') flt, loose silt + f sand, some gravel. }  
 (9'-12') f and vt gray sand, brittle, wet. } 1.5  
 12'-14' (12'-14') Similar soil to very loose, wet silt + clay. Some }  
 stiff spots, gray, some plasticity. } 1.1

SB2 well set to 14'. 10'-screen and 4'-riser.

SB3  
 0'-4' (0'-2') Brn fill, mixed }  
 (2'-4') Black silt and stone fill, dry to slightly moist } 744  
 4'-8' (4'-5') Similar soil, black }  
 (5'-6.5') Brn vt sand, brittle, wet } 475  
 (6.5'-8.0') Gray vt sand brittle, wet }

Signature [Signature] Title PN

Date 5/10/06 No. 15207  
Client Phillips Lytle (Mayville)  
Subject SE  
Weather Sunny Temp. 75°-80°

Hazard Evaluations, Inc.  
3836 N. Buffalo Rd.  
Orchard Park, NY 14127  
(716) 667-3130

FIELD INVESTIGATION REPORT

|   |                |
|---|----------------|
| <u>SB3 - continued</u>  |                |
| 8'-12' (8'-10') vt sand, gray, stiff, wet                           | } <u>1,564</u> |
| (10'-11') mf sand, wet stiff  |                |
| (11'-12') vt sand + silt, brittle                                   |                |
| 12'-14' (12'-14') Silt + clay, gray, wet, some plasticity           | } <u>486</u>   |
| SB3 well to 14'. 10'-Screen, 4'-Riser.                              |                |
| <u>SB4</u>  |                |
| 0'-4' (0'-3') Topsoil to soft, dry, brown + gray silt               | } <u>3.7</u>   |
| (3'-4') vt gray sand, moist   |                |
| 4'-8' (4'-6') vt sand, brown + gray, moist, brittle                 | } <u>2</u>     |
| (6'-8') vt sand + silt, moist to wet, brittle                       |                |
| 8'-12' (8'-9') mf sand, wet   | } <u>3.9</u>   |
| (9'-10') Brn f sand, well graded, wet, stiff                        |                |
| (10'-12') Gray f sand, well graded, wet, stiff                      |                |
| 12'-14' (12'-13.5') Gray f sand, some loose, some more brittle, wet | } <u>3.7</u>   |
| (13.5'-14') Silt + clay, gray, some plasticity                      |                |
| SB4 well to 14'. 10'-Screen, 4'-Riser.                              |                |
| <u>SB5</u>  |                |
| 0'-4' (0'-2') Topsoil to dry-loose silt fill                        | } <u>5</u>     |
| (2'-3') C sand, moist to wet, loose                                 |                |
| (3'-4') mf sand, more dense.  |                |

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Date 5/10/06 No. 15207  
Client Phillips Lytle, May 11  
Subject SSI  
Weather Sunny Temp. 75-80

Hazard Evaluations, Inc.  
3836 N. Buffalo Rd.  
Orchard Park, NY 14127  
(716) 667-3130

### FIELD INVESTIGATION REPORT

|  |              |
|--|--------------|
| <u>SBS - continued</u>   |              |
| 4-8' (4-5.5') Cmt sand, loose, wet                                 | } <u>7</u>   |
| (5.5-7') Brn f sand, brittle, wet                                  |              |
| (7-8') Gray f sand, brittle, wet                                   |              |
| 8-12' (8-9.5') Loose, wet, well graded m sand                      | } <u>26</u>  |
| (9.5-11') Gravel, loose, wet                                       |              |
| (11-12') Brittle vf sand   |              |
| 12-14' (Discrete) vf gray sand, brittle, some looser material wet. | } <u>2.5</u> |
| SBS well to 14', 10'-Screen, 4'-Riser.                             |              |
| <u>SBS6</u>  |              |
| 0-4' (0-2') Topsoil to loose gray silt                             | } <u>3.1</u> |
| (2-4') Loose brn cmt sand + gravel, dry                            |              |
| 4-8' (4-6') Cmt sand + gravel, moist to wet, loose                 | } <u>5.9</u> |
| (6-6.5') Gray f sand, wet, brittle                                 |              |
| (6.5-8.0) Brn vf sand, brittle, wet                                |              |
| 8-12' (8-12') Gray vf sand, brittle, wet                           | } <u>3.5</u> |
| 12-15' (Discrete)  | } <u>2.7</u> |
| (12-14') f + vf gray sand, brittle, wet                            |              |
| (14-15') Silty clay, gray, plastic, little silt                    |              |
| SBS6 well to 15', 10'-Screen, 4'-Riser.                            |              |

Signature [Signature] Title Am

Date 5/10/06 No. 15207  
 Client Phillips Lytle, Mayville  
 Subject SSI  
 Weather Sunny Temp. 75°-80°

Hazard Evaluations, Inc.  
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 Orchard Park, NY 14127  
 (716) 667-3130

FIELD INVESTIGATION REPORT

|                                      |  |
|--------------------------------------|--|
| <u>SB7</u>                           |  |
| 0'-4' (0'-2')                        | Topsoil, brown + orange brown silt. } <u>2</u>                               |
| (2'-4')                              | Conf sand, loose brown, dry }  |
| 4'-8' (4'-6')                        | stiff, brittle w/ sand, brown, wet } <u>1.1</u>                              |
| (6'-8')                              | Similar material but gray, }   |
| 8'-12' (8'-12')                      | Similar soil - gray. } <u>3.5</u>  |
| 12'-15' (12'-13')                    | Gray w/ sand, wet, stiff, brittle. }   |
| (13'-15')                            | Grades to gray clay + silt, some plasticity } <u>5.9</u>                     |
| Note: 12-15 was a discrete sample.   |  |
| SB7 well to 15'. 10' screen. 5' RSL. |  |
| <u>SB8</u>                           |  |
| 0'-4' (0'-5")                        | Concrete   |
| (5"-2')                              | Brown silt fill, soft } <u>3.9</u>   |
| (2'-4')                              | Conf sand, moist, loose }  |
| 4'-8' (4'-5')                        | Loose conf sand + gravel, wet } <u>24</u>                                    |
| (5'-7')                              | Brown sand, stiff, brittle, wet }  |
| (7'-8')                              | Similar, but gray. }   |
| 8'-12' (8'-10')                      | Comp - m   |
| (10'-10')                            | Gray dense, stiff w/ sand, wet } <u>16</u>                                   |
| 12'-15' (Discrete)                   |  |
| (12'-13')                            | f sand, wet }  |
| (13'-14')                            | Dense w/ sand wet. }   |
| (14'-15')                            | Clay + silt, some areas of plasticity. w/ sand + silt at bottom } <u>5.9</u> |
| SB8 well to 15'. 10' screen. 5' RSL. |  |

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Date 5/11/06 No. 15207  
Client Phillips Lytle (Mayville)  
Subject SI  
Weather Rain Temp. 50-60

Hazard Evaluations, Inc.  
3836 N. Buffalo Rd.  
Orchard Park, NY 14127  
(716) 667-3130

### FIELD INVESTIGATION REPORT

|  |  |
|--|--|
| Arrived on-site and set up work area. Zebra arrived. |  |
| Began performing borings. Calibrated OVM.            |  |
| <u>SB10</u>  |  |
| 0'-4' (0'-3')  | Ben silt fill to black cinder-like fill. } <u>64</u>           |
| (3'-4')  | Gray f sand, little stiff.                                     |
| 4'-8' (4'-5')  | Loose f sand, brown, wet                                       |
| (5'-7')  | Brown mottled orange vt sand, stiff, more brittle } <u>146</u> |
| (7'-8')  | Same soil except gray } <u>284</u>                             |
| 8'-12' (8'-12')                                      | Ben stiff f+vt sand } <u>5</u>                                 |
| 12'-14' (12'-14')                                    | Wet sand cave-in to plastic gray clay + silt } <u>7</u>        |
|  | Discrete   |
| SB10 Well to 14', 10' Screen. 4' Riser.              |  |
| <u>SB11</u>  |  |
| 0'-4' (0'-3')  | Ben silt fill to black cinder-like material, loose } <u>5</u>  |
| (3'-4')  | Gray stiff f sand, moist                                       |
| 4'-8' (4'-5.5')                                      | Ben vt sand, stiff   |
| (5.5'-6')  | mt sand, wet, more loose } <u>22</u>                           |
| (6'-8')  | Gray vt + f sand, stiff, brittle, wet                          |
| 8'-12' (8'-9.5')                                     | Loose wet, brown sand  |
| (9.5'-10')   | Mixed sand + gravel, brn } <u>7.6</u>                          |
| (10.0'-12')  | Stiff gray vt sand, some very brittle areas                    |
| 12'-14' (Discrete)                                   | Brittle f sand to plastic gray clay w/some } <u>3</u>          |
|  | silt, wet  |
| SB11 Well to 14', 10'-Screen. 4'-Riser               |  |

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Date 5/11/06 No. 15207  
Client Phillips Lytle (Maysville)  
Subject SSF  
Weather Rain Temp. 50-60°

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Orchard Park, NY 14127  
(716) 667-3130

### FIELD INVESTIGATION REPORT

SB12  
 0'-4' (0'-3') Soft brown silt + sand fill } 15.2  
           (3'-4') Brown f sand, moist  
 4'-8' (4'-6') Brown f sand, wet, brittle } >2,000  
           (6'-8') Gray f sand, wet, brittle  
 8'-12' (Discrete) f sand, brittle, gray, Grades to vt sand, wet } >2,000  
 12'-14' (Discrete) Soft plastic gray clay + silt } 367

SB12 well to 14'. 10-Screen, 4-Riser.

SB13  
 0'-4' (0'-4') Wood floor to concrete to cmt sand, brown, moist } 5  
 4'-8' (4'-5') cmt sand, moist to wet }  
           (5'-6') Brown f sand to silt, dense. } 11  
           (6'-8') Gray f + vt sand, brittle, wet }  
 8'-12' (Discrete) Gray, wet f sand, brittle } 11  
 12'-14' (Discrete) Gray clay with silt, soft, plastic, some stiffer spots } 3

SB13 well to 14'. 10-Screen, 4-Riser

SB14  
 0'-4' (0'-3') Wood, concrete, then mixed fill } 14  
           (3'-4') cmt sand, moist, somewhat loose }  
 4'-8' (4'-5.5') cmt sand, wet, brown }  
           (5.5'-6.5') vt brown sand, brittle } 281  
           (6.5'-8.0') f gray sand, brittle, wet }

Signature Tom Wenzeloff Title AE

Date 5/11/06 No. 15207  
Client Phillips Lytle (Mayville)  
Subject SSI  
Weather Rain Temp. 50-60

Hazard Evaluations, Inc.  
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### FIELD INVESTIGATION REPORT

|   |   |
|---|---|
| <u>SB14 - continued</u>                           |   |
| 8-12' (Discrete)                                  | f gray sand, brittle, wet } <u>282</u>                                  |
| 12-14' (Discrete)                                 | Brittle sand, wet to plastic clay + silt } <u>260</u><br>somewhat stiff |
| SB14 well to 14'. 10-screen. <del>4</del> -Riser. |   |
| <u>SB15</u>                                       |   |
| 0-4' (0-3')                                       | Mixed fill } <u>0.5</u>   |
|   | (3-4') cmt sand   |
| 4-8' (4-5')                                       | cmt sand  |
|   | (5-6.5') mt brn sand, wet, little soft, wet } <u>1.6</u>                |
|   | (6.5-7.0') f gray sand, wet   |
| 8-12' (Discrete)                                  | Uniform gray f + vt sand, wet, little } <u>2.0</u>                      |
| 12-14' (Discrete)                                 | f sand to soft, plastic, clay, + silt } <u>0</u>                        |
| SB15 well 14'. 10-screen. 4-Riser.                |   |
| <u>SB16</u>                                       |   |
| 0-4'  | See SB13 (0-4') } <u>2.1</u>  |
| 4-8'  | See SB13 (4-8') } <u>1.2</u>  |
| 8-12'   | See SB13 (8-12') } <u>2.9</u>   |
| 12-14'  | Loose sand to soft gray silt + clay, plastic } <u>18</u>                |
| SB16 well - sand.                                 |   |

Signature Scott Overhoff Title PM

Date 5/11/06 No. 15207  
Client Phillips Lytle (Maysville)  
Subject SSI  
Weather Rain Temp. 50° 60°

Hazard Evaluations, Inc.  
3836 N. Buffalo Rd.  
Orchard Park, NY 14127  
(716) 667-3130

### FIELD INVESTIGATION REPORT

|                                   |   |
|-----------------------------------|---|
| <u>SB17</u>                       |   |
| 0-4' (0-3.5')                     | Fill + black coner-like matl. } <u>1,271</u>                |
| (3.5-4.0')                        | mf sand, brn, dense   |
| 4-8' (4-6')                       | brn of sand, wet, brittle } <u>1,469</u>                    |
| (6-8')                            | Gray - same   |
| 8-12' (Discrete)                  | Gray f sand, wet, brittle } <u>1,838</u>                    |
| 12-14' (Discrete)                 | 4" of sand to soft silt + clay, wet } <u>133</u>            |
|                                   | <u>sampled clay only</u>                                    |
| <u>SB18 (All Discrete)</u>        |   |
| 0-4' (0-2')                       | Black fill } <u>168</u>                                     |
| (2-4')                            | cmf sand + gravel, sheer                                    |
| 4-8' (4-5')                       | cmf sand + gravel, sheer } <u>941</u>                       |
| (5-6')                            | brn f sand, wet brittle                                     |
| (6-8')                            | Gray f sand, wet brittle                                    |
| 8-12' (8-11')                     | f gray sand, brittle } <u>72,000</u>                        |
| (11-12')                          | Silt + f sand w/clay, moist                                 |
| Well to 12'. 10-Screen, 2' Riser. |   |
| <u>SB19 (All Discrete)</u>        |   |
| 0-4' (0-4')                       | Fill to cmf sand } <u>1.2</u>                               |
| (4-8')                            | cmf sand to brn sand to gray sand, wet brittle } <u>1.0</u> |
| (8-12')                           | Gray brittle f sand, wet } <u>25</u>                        |
| Secured site. Left for Day.       |   |

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AS 10/2

Date 5/12/06 No. 15207  
Client Phillips Lytle (Standard Portable)  
Subject Groundwater Sampling  
Weather Sun + Rain Temp. 50°-60°

Hazard Evaluations, Inc.  
3836 N. Buffalo Rd.  
Orchard Park, NY 14127  
(716) 667-3130

### FIELD INVESTIGATION REPORT

Travelling to subject site. Set-up survey equipment and measured wellhead elevations.

| Location | BS       | FS   | HI     | Elevation |
|----------|----------|------|--------|-----------|
| BM       | 346      |      | 103.46 | 100.00    |
| SB1      |          | 5.36 | 103.46 | 98.10     |
| SB2      |          | 5.60 | 103.46 | 97.86     |
| SB3      |          | 4.97 | 103.46 | 98.49     |
| SB4      |          | 4.09 | 103.46 | 99.37     |
| SB5      |          | 3.74 | 103.46 | 99.72     |
| SB6      |          | 2.26 | 103.46 | 101.20    |
| SB7      | 3.78(BM) | 2.09 | 103.78 | 101.69    |
| SB8      |          | 4.14 | 103.78 | 99.64     |
| SB9      |          | 5.12 | 103.46 | 98.34     |
| SB10     |          | 5.51 | 103.46 | 97.95     |
| SB11     |          | 5.25 | 103.46 | 98.21     |
| SB12     |          | 5.08 | 103.46 | 98.38     |
| SB13     | 3.53(BM) | 3.87 | 103.53 | 99.66     |
| SB14     |          | 3.78 | 103.53 | 99.75     |
| SB15     |          | 3.83 | 103.53 | 99.70     |
| SB16     |          | 4.60 | 103.46 | 98.86     |
| SB17     |          | 5.15 | 103.46 | 98.31     |
| SB18     |          | 4.32 | 103.46 | 99.14     |
| SB19     |          | 4.83 | 103.46 | 98.63     |

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Date 5/12/06 No. 15707  
 Client Phillips Lytle (Standard Portable)  
 Subject Groundwater Sampling  
 Weather Sun + Rain Temp. 50°-60°

Hazard Evaluations, Inc.  
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 (716) 667-3130

**FIELD INVESTIGATION REPORT**

Used water level indicator to gauge groundwater levels. Purg'd and sampled wells. Note: Most of the wells had a substantial amount of vt sand within them.

| Location | Reference Elevation | Depth to Outer | GW Elevation | Grd Purged | Notes                             |
|----------|---------------------|----------------|--------------|------------|-----------------------------------|
| SB1      | 98.10               | 3.30           | 94.80        | <1         | Much Product Sampled water + P.D. |
| SB2      | 97.86               | 4.44           | 93.42        | 2.5+       | clear to Lt sediment              |
| SB3      | 98.49               | 3.41           | 95.08        | 2.0+       | Heavy sediment, Slow recharge     |
| SB4      | 99.37               | 4.65           | 94.72        | 1.0-1.5    | much vt sand, good recharge       |
| SB5      | 99.72               | 3.01           | 96.71        | 2.5+       | Began to clear                    |
| SB6      | 101.20              | 4.29           | 96.91        | 2.5+       | Began to clear                    |
| SB7      | 101.69              | 3.84           | 97.85        | 2.0+       | much vt sand                      |
| SB8      | 99.64               | 2.80           | 96.84        | <1         | much sand, little rechl.          |
| SB9      | 98.34               | 3.56           | 94.78        | 1.5-2.0    | shells, odor                      |
| SB10     | 97.95               | 3.23           | 94.72        | 1.0±       | cloudy, low recharge              |
| SB11     | 98.21               | 1.89           | 96.32        | 2.5±       | cloudy, good recharge             |
| SB12     | 98.38               | 1.95           | 96.43        | 2.0-2.5    | some shells                       |
| SB13     | 99.66               | 2.85           | 96.81        | 1.0±       | much vt sand                      |
| SB14     | 99.75               | 3.06           | 96.69        | 1.0±       | much vt sand                      |
| SB15     | 99.70               | 2.92           | 96.78        | 1.5±       | vt sand, recharge OK              |
| SB16     | 98.86               | 2.91           | 95.95        | 1.0-1.5    | vt sand, good recharge            |
| SB17     | 98.31               | 2.27           | 96.04        | 1.5        | shells                            |
| SB18     | 99.14               | 2.61           | 96.53        | 1.5-2.0    | Heavy shells                      |
| SB19     | 98.63               | 2.90           | 95.73        | 2.5+       | vt sand, OK rechl.                |

Signature Joe Beckman Title PI

**Attachment 3**  
**Analytical Summary Tables**

**Table 1  
Standard Portable**

**Soil Sample Analytical Results; Volatile Organics  
May 10 & 11, 2006 Sampling Dates**

| Analytical Parameter      | SB5<br>(8'-12') | SB8<br>(4'-8') | SB10<br>(8'-12') | SB10<br>(12'-14') | SB11<br>(4'-8') | SB13<br>(4'-8') | Recommended<br>Soil Cleanup<br>Objective<br>(TAGM 4046) |
|---------------------------|-----------------|----------------|------------------|-------------------|-----------------|-----------------|---|
| Cis-1,2-Dichloroethene    | "               | "              | 1,240*           | 55.2              | 132             | 42.0            | NA  |
| Methylene Chloride        | "               | "              | "                | "                 | "               | "               | 100   |
| 1,1,2,2-Tetrachloroethane | "               | "              | "                | "                 | "               | "               | 600   |
| Tetrachloroethene         | 17.6            | "              | "                | 17.7              | 24.2            | 13.5            | 1,400   |
| 1,1,2-Trichloroethane     | "               | "              | "                | "                 | "               | "               | NA  |
| Trichloroethene           | 706             | 1,980          | 4,040*           | 468               | 1,820*          | 2,560*          | 700   |
| Vinyl Chloride            | "               | "              | 26.9             | "                 | "               | "               | 200   |
| Benzene                   | "               | "              | "                | "                 | "               | "               | 60  |
| Ethylbenzene              | "               | "              | "                | "                 | "               | "               | 5,500   |
| Toluene                   | "               | "              | "                | "                 | "               | "               | 1,500   |
| Xylenes                   | "               | "              | "                | "                 | "               | "               | 1,200   |

- Notes: 1) Results from USEPA Method 8260 for Volatiles; All results in ppb (ug/kg).  
 2) NA = Not Applicable  
 3) " means compound not detected above Method Detection Limit (MDL).  
 4) \* = Estimated Value. Concentration exceeds calibration range.

**Table 1 (Continued)  
Standard Portable**

**Soil Sample Analytical Results; Volatile Organics  
May 10 & 11, 2006 Sampling Dates**

| Analytical Parameter      | SB16<br>(8'-12') | SB16<br>(12'-14') | SB17<br>(8'-12') | SB17<br>(12'-14')<br>Clay | SB18<br>(8'-12') | Recommended<br>Soil Cleanup<br>Objective<br>(TAGM 4046) |
|---------------------------|------------------|-------------------|------------------|---------------------------|------------------|---|
| Cis-1,2-Dichloroethene    | 23.5             | 41.5              | 1,360*           | 6,230*                    | 323              | NA  |
| Methylene Chloride        | "                | "                 | "                | "                         | "                | 100   |
| 1,1,2,2-Tetrachloroethane | "                | "                 | "                | "                         | "                | 600   |
| Tetrachloroethene         | 14.3             | 10.1              | "                | "                         | 52.8             | 1,400   |
| 1,1,2-Trichloroethane     | "                | "                 | "                | "                         | 93.8             | NA  |
| Trichloroethene           | 2,110*           | 2,670*            | 6,510*           | 592                       | 8,720*           | 700   |
| Vinyl Chloride            | "                | "                 | 56.7             | 279                       | 16.2             | 200   |
| Benzene                   | "                | "                 | "                | "                         | "                | 60  |
| Ethylbenzene              | "                | "                 | "                | "                         | "                | 5,500   |
| Toluene                   | "                | "                 | 14.8             | "                         | 21.3             | 1,500   |
| Xylenes                   | "                | "                 | "                | "                         | "                | 1,200   |

- Notes: 1) Results from USEPA Method 8260 for Volatiles; All results in ppb (ug/kg).  
 2) NA = Not Applicable  
 3) " means compound not detected above Method Detection Limit (MDL).  
 4) \* = Estimated Value. Concentration exceeds calibration range.

**Table 2  
Standard Portable**

**Groundwater Sample Analytical Results; Volatile Organics  
May 12, 2006 Sampling Date**

| Analytical Parameter      | SB1      | SB2  | SB5  | SB7  | SB8  | SB9      | SB10   | SB11 | Water Quality Standards (See note) |
|---------------------------|----------|------|------|------|------|----------|--------|------|------------------------------------|
| Cis-1,2-Dichloroethene    | 18,100   | "    | "    | "    | 396* | 58,900*  | 1,470* | 164  | 5                                  |
| Methylene Chloride        | "        | "    | "    | "    | "    | "        | "      | "    | 5                                  |
| 1,1,2,2-Tetrachloroethane | "        | "    | "    | "    | "    | "        | "      | "    | 5                                  |
| Tetrachloroethene         | 497      | "    | "    | "    | "    | 444      | 2.27   | 7.08 | 5                                  |
| 1,1,2-Trichloroethane     | 1,210    | "    | "    | "    | "    | "        | "      | "    | 1                                  |
| Trichloroethene           | 132,000* | 14.6 | 18.4 | 30.5 | 773* | 134,000* | 1,410* | 77.7 | 5                                  |
| Vinyl Chloride            | 4,660    | "    | "    | "    | 21.0 | 6,840    | 318*   | 6.69 | 2                                  |
| Ethylbenzene              | "        | "    | "    | "    | "    | "        | "      | "    | 5                                  |
| Toluene                   | "        | "    | "    | "    | 2.01 | "        | "      | "    | 5                                  |
| Xylenes                   | "        | "    | "    | "    | "    | "        | "      | "    | 5                                  |

- Notes: 1) Results from USEPA Method 8260 for Volatiles; All results in ppb (ug/l).  
 2) Shaded results exceed the applicable Water Quality Standard.  
 3) NA means Not Applicable.  
 4) " means compound not detected above MDL.  
 5) Water Quality Standards from either TOGS 1.1.1 or TAGM 4046.  
 6) \* = Estimated Value. Concentration exceeds calibration range.

**Table 2 (Continued)  
Standard Portable**

**Groundwater Sample Analytical Results; Volatile Organics  
May 12, 2006 Sampling Date**

| Analytical Parameter      | SB13 | SB16 | SB17    | SB18     | SB19 | Trip Blank | Equip. Blank | Water Quality Standards (See note) |
|---------------------------|------|------|---------|----------|------|------------|--------------|------------------------------------|
| Cis-1,2-Dichloroethene    | 33.4 | 9.11 | 10,600* | 10,500   | "    | "          | "            | 5                                  |
| Methylene Chloride        | "    | "    | "       | "        | "    | "          | "            | 5                                  |
| 1,1,2,2-Tetrachloroethane | "    | "    | "       | "        | "    | "          | "            | 5                                  |
| Tetrachloroethene         | 3.86 | "    | 551     | 540      | 4.07 | "          | "            | 5                                  |
| 1,1,2-Trichloroethane     | "    | "    | 57.9    | 1,550    | "    | "          | "            | 1                                  |
| Trichloroethene           | 552* | 711* | 16,600* | 151,000* | 86.6 | 22.8       | 28.4         | 5                                  |
| Vinyl Chloride            | "    | "    | 190     | 335      | "    | "          | "            | 2                                  |
| Ethylbenzene              | "    | "    | 23.9    | "        | "    | "          | "            | 5                                  |
| Toluene                   | "    | "    | 47.5    | "        | "    | "          | "            | 5                                  |
| Xylenes                   | "    | "    | 93.7    | "        | "    | "          | "            | 5                                  |

- Notes: 1) Results from USEPA Method 8260 for Volatiles; All results in ppb (ug/l).  
 2) Shaded results exceed the applicable Water Quality Standard.  
 3) NA means Not Applicable.  
 4) " means compound not detected above MDL.  
 5) Water Quality Standards from either TOGS 1.1.1 or TAGM 4046.  
 6) \* = Estimated Value. Concentration exceeds calibration range.

**Attachment 4**

**Laboratory Analytical Report**



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: Hazard Evaluations

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5238

Client Job Number: 15207

Field Location: SB5 (8-12')

Date Sampled: 05/11/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | ND< 10.6           |
| Methylene chloride        | ND< 26.6           |
| 1,1,2,2-Tetrachloroethane | ND< 10.6           |
| Tetrachloroethene         | 17.6               |
| 1,1,2-Trichloroethane     | ND< 10.6           |
| Trichloroethene           | 706                |
| Vinyl chloride            | ND< 10.6           |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 10.6           |
| Toluene      | ND< 10.6           |
| m,p-Xylene   | ND< 10.6           |
| o-Xylene     | ND< 10.6           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36536.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5226

Client Job Number: 15207

Field Location: SB8 (4-8')

Date Sampled: 05/10/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | ND< 78.8           |
| Methylene chloride        | ND< 197            |
| 1,1,2,2-Tetrachloroethane | ND< 78.8           |
| Tetrachloroethene         | ND< 78.8           |
| 1,1,2-Trichloroethane     | ND< 78.8           |
| Trichloroethene           | 1,980              |
| Vinyl chloride            | ND< 78.8           |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 78.8           |
| Toluene      | ND< 78.8           |
| m,p-Xylene   | ND< 78.8           |
| o-Xylene     | ND< 78.8           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36524.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger, Technical Director

### Volatile Analysis Report for Soils/Solids/Sludges

 Client: **Hazard Evaluations, Inc.**

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5226

Client Job Number: 15207

Field Location: SB8 (4'-8')

Date Sampled: 05/10/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

Date Reissued: 06/28/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| Bromodichloromethane      | ND< 78.8           |
| Bromomethane              | ND< 78.8           |
| Bromoform                 | ND< 78.8           |
| Carbon Tetrachloride      | ND< 78.8           |
| Chloroethane              | ND< 78.8           |
| Chloromethane             | ND< 78.8           |
| 2-Chloroethyl vinyl Ether | ND< 78.8           |
| Chloroform                | ND< 78.8           |
| Dibromochloromethane      | ND< 78.8           |
| 1,1-Dichloroethane        | ND< 78.8           |
| 1,2-Dichloroethane        | ND< 78.8           |
| 1,1-Dichloroethene        | ND< 78.8           |
| cis-1,2-Dichloroethene    | ND< 78.8           |
| trans-1,2-Dichloroethene  | ND< 78.8           |
| 1,2-Dichloropropane       | ND< 78.8           |
| cis-1,3-Dichloropropene   | ND< 78.8           |
| trans-1,3-Dichloropropene | ND< 78.8           |
| Methylene chloride        | ND< 197            |
| 1,1,2,2-Tetrachloroethane | ND< 78.8           |
| Tetrachloroethene         | ND< 78.8           |
| 1,1,1-Trichloroethane     | ND< 78.8           |
| 1,1,2-Trichloroethane     | ND< 78.8           |
| Trichloroethene           | 1,980              |
| Trichlorofluoromethane    | ND< 78.8           |
| Vinyl chloride            | ND< 78.8           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36524.D

| Aromatics           | Results in ug / Kg |
|---------------------|--------------------|
| Benzene             | ND< 78.8           |
| Chlorobenzene       | ND< 78.8           |
| Ethylbenzene        | ND< 78.8           |
| Toluene             | ND< 78.8           |
| m,p-Xylene          | ND< 78.8           |
| o-Xylene            | ND< 78.8           |
| Styrene             | ND< 78.8           |
| 1,2-Dichlorobenzene | ND< 78.8           |
| 1,3-Dichlorobenzene | ND< 78.8           |
| 1,4-Dichlorobenzene | ND< 78.8           |

| Ketones              | Results in ug / Kg |
|----------------------|--------------------|
| Acetone              | ND< 394            |
| 2-Butanone           | ND< 197            |
| 2-Hexanone           | ND< 197            |
| 4-Methyl-2-pentanone | ND< 197            |

| Miscellaneous    | Results in ug / Kg |
|------------------|--------------------|
| Carbon disulfide | ND< 197            |
| Vinyl acetate    | ND< 197            |

 Comments: ND denotes Non Detect  
 ug / Kg = microgram per Kilogram

Signature:

  
 Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5227

Client Job Number: 15207

Field Location: SB10 (8-12')

Date Sampled: 05/11/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

| Halocarbons               |   | Results in ug / Kg |
|---------------------------|---|--------------------|
| cis-1,2-Dichloroethene    | E | 1,240              |
| Methylene chloride        |   | ND< 21.0           |
| 1,1,2,2-Tetrachloroethane |   | ND< 8.41           |
| Tetrachloroethene         |   | ND< 8.41           |
| 1,1,2-Trichloroethane     |   | ND< 8.41           |
| Trichloroethene           | E | 4,040              |
| Vinyl chloride            |   | 26.9               |

| Aromatics    |  | Results in ug / Kg |
|--------------|--|--------------------|
| Ethylbenzene |  | ND< 8.41           |
| Toluene      |  | ND< 8.41           |
| m,p-Xylene   |  | ND< 8.41           |
| o-Xylene     |  | ND< 8.41           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36525.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger, Technical Director



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville  
Client Job Number: 15207  
Field Location: SB10 (12-14')  
Field ID Number: N/A  
Sample Type: Soil

Lab Project Number: 06-1527  
Lab Sample Number: 5228  
Date Sampled: 05/11/2006  
Date Received: 05/23/2006  
Date Analyzed: 05/24/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | 55.2               |
| Methylene chloride        | ND< 15.4           |
| 1,1,2,2-Tetrachloroethane | ND< 6.14           |
| Tetrachloroethene         | 17.7               |
| 1,1,2-Trichloroethane     | ND< 6.14           |
| Trichloroethene           | 468                |
| Vinyl chloride            | ND< 6.14           |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 6.14           |
| Toluene      | ND< 6.14           |
| m,p-Xylene   | ND< 6.14           |
| o-Xylene     | ND< 6.14           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36526.D

Comments: ND denotes Non Detect  
ug / Kg = microgram per Kilogram  
E = Estimated value. Concentration exceeds calibration range.

Signature:   
Bruce Hoogesteger, Technical Director

**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

|                    |             |                     |            |
|--------------------|-------------|---------------------|------------|
| Client Job Site:   | PL-Mayville | Lab Project Number: | 06-1527    |
| Client Job Number: | 15207       | Lab Sample Number:  | 5229       |
| Field Location:    | SB11 (4-8') | Date Sampled:       | 05/11/2006 |
| Field ID Number:   | N/A         | Date Received:      | 05/23/2006 |
| Sample Type:       | Soil        | Date Analyzed:      | 05/24/2006 |

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | 132                |
| Methylene chloride        | ND< 20.5           |
| 1,1,2,2-Tetrachloroethane | ND< 8.20           |
| Tetrachloroethene         | 24.2               |
| 1,1,2-Trichloroethane     | ND< 8.20           |
| Trichloroethene           | E 1,820            |
| Vinyl chloride            | ND< 8.20           |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 8.20           |
| Toluene      | ND< 8.20           |
| m,p-Xylene   | ND< 8.20           |
| o-Xylene     | ND< 8.20           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36527.D

Comments: ND denotes Non Detect  
ug / Kg = microgram per Kilogram  
E = Estimated value. Concentration exceeds calibration range.

Signature:   
Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5230

Client Job Number: 15207

Field Location: SB13 (4-8')

Date Sampled: 05/11/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | 42.0               |
| Methylene chloride        | ND< 21.3           |
| 1,1,2,2-Tetrachloroethane | ND< 8.51           |
| Tetrachloroethene         | 13.5               |
| 1,1,2-Trichloroethane     | ND< 8.51           |
| Trichloroethene E         | 2,560              |
| Vinyl chloride            | ND< 8.51           |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 8.51           |
| Toluene      | ND< 8.51           |
| m,p-Xylene   | ND< 8.51           |
| o-Xylene     | ND< 8.51           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36528.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5231

Client Job Number: 15207

Field Location: SB16 (8-12')

Date Sampled: 05/11/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | 23.5               |
| Methylene chloride        | ND< 17.2           |
| 1,1,2,2-Tetrachloroethane | ND< 6.87           |
| Tetrachloroethene         | 14.3               |
| 1,1,2-Trichloroethane     | ND< 6.87           |
| Trichloroethene E         | 2,110              |
| Vinyl chloride            | ND< 6.87           |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 6.87           |
| Toluene      | ND< 6.87           |
| m,p-Xylene   | ND< 6.87           |
| o-Xylene     | ND< 6.87           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36529.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville  
Client Job Number: 15207  
Field Location: SB16 (12-14')  
Field ID Number: N/A  
Sample Type: Soil

Lab Project Number: 06-1527  
Lab Sample Number: 5232  
Date Sampled: 05/11/2006  
Date Received: 05/23/2006  
Date Analyzed: 05/24/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | 41.5               |
| Methylene chloride        | ND< 19.1           |
| 1,1,2,2-Tetrachloroethane | ND< 7.63           |
| Tetrachloroethene         | 10.1               |
| 1,1,2-Trichloroethane     | ND< 7.63           |
| Trichloroethene           | E 2,670            |
| Vinyl chloride            | ND< 7.63           |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 7.63           |
| Toluene      | ND< 7.63           |
| m,p-Xylene   | ND< 7.63           |
| o-Xylene     | ND< 7.63           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36530.D

Comments: ND denotes Non Detect  
ug / Kg = microgram per Kilogram  
E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville  
Client Job Number: 15207  
Field Location: SB17 (8-12')  
Field ID Number: N/A  
Sample Type: Soil

Lab Project Number: 06-1527  
Lab Sample Number: 5233  
Date Sampled: 05/11/2006  
Date Received: 05/23/2006  
Date Analyzed: 05/24/2006

| Halocarbons               |   | Results in ug / Kg |
|---------------------------|---|--------------------|
| cis-1,2-Dichloroethene    | E | 1,360              |
| Methylene chloride        |   | ND< 19.5           |
| 1,1,2,2-Tetrachloroethane |   | ND< 7.81           |
| Tetrachloroethene         |   | ND< 7.81           |
| 1,1,2-Trichloroethane     |   | ND< 7.81           |
| Trichloroethene           | E | 6,510              |
| Vinyl chloride            |   | 56.7               |

| Aromatics    |  | Results in ug / Kg |
|--------------|--|--------------------|
| Ethylbenzene |  | ND< 7.81           |
| Toluene      |  | 14.8               |
| m,p-Xylene   |  | ND< 7.81           |
| o-Xylene     |  | ND< 7.81           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36533.D

Comments: ND denotes Non Detect  
ug / Kg = microgram per Kilogram  
E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Soils/Solids/Sludges**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville  
Client Job Number: 15207  
Field Location: SB17 (12-14')clay  
Field ID Number: N/A  
Sample Type: Soil

Lab Project Number: 06-1527  
Lab Sample Number: 5234  
Date Sampled: 05/11/2006  
Date Received: 05/23/2006  
Date Analyzed: 05/24/2006

| Halocarbons               |   | Results in ug / Kg |
|---------------------------|---|--------------------|
| cis-1,2-Dichloroethene    | E | 6,230              |
| Methylene chloride        |   | ND< 17.7           |
| 1,1,2,2-Tetrachloroethane |   | ND< 7.07           |
| Tetrachloroethene         |   | ND< 7.07           |
| 1,1,2-Trichloroethane     |   | ND< 7.07           |
| Trichloroethene           |   | 592                |
| Vinyl chloride            |   | 279                |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 7.07           |
| Toluene      | ND< 7.07           |
| m,p-Xylene   | ND< 7.07           |
| o-Xylene     | ND< 7.07           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36534.D

Comments: ND denotes Non Detect  
ug / Kg = microgram per Kilogram  
E = Estimated value. Concentration exceeds calibration range.  
Surrogate outlier indicates probable matrix effect

Signature: \_\_\_\_\_

Bruce Hoogesteger, Technical Director



ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

### Volatile Analysis Report for Soils/Solids/Sludges

Client: Hazard Evaluations

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5235

Client Job Number: 15207

Field Location: SB18 (8-12')

Date Sampled: 05/11/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| cis-1,2-Dichloroethene    | 323                |
| Methylene chloride        | ND< 24.2           |
| 1,1,2,2-Tetrachloroethane | ND< 9.68           |
| Tetrachloroethene         | 52.8               |
| 1,1,2-Trichloroethane     | 93.8               |
| Trichloroethene           | E 8,720            |
| Vinyl chloride            | 16.2               |

| Aromatics    | Results in ug / Kg |
|--------------|--------------------|
| Ethylbenzene | ND< 9.68           |
| Toluene      | 21.3               |
| m,p-Xylene   | ND< 9.68           |
| o-Xylene     | ND< 9.68           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36535.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

### Volatile Analysis Report for Soils/Solids/Sludges

 Client: Hazard Evaluations, Inc.

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5235

Client Job Number: 15207

Field Location: SB18 (8'-12')

Date Sampled: 05/11/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Soil

Date Analyzed: 05/24/2006

Date Reissued: 06/28/2006

| Halocarbons               | Results in ug / Kg |
|---------------------------|--------------------|
| Bromodichloromethane      | ND< 9.68           |
| Bromomethane              | ND< 9.68           |
| Bromoform                 | ND< 9.68           |
| Carbon Tetrachloride      | ND< 9.68           |
| Chloroethane              | ND< 9.68           |
| Chloromethane             | ND< 9.68           |
| 2-Chloroethyl vinyl Ether | ND< 9.68           |
| Chloroform                | ND< 9.68           |
| Dibromochloromethane      | ND< 9.68           |
| 1,1-Dichloroethane        | ND< 9.68           |
| 1,2-Dichloroethane        | ND< 9.68           |
| 1,1-Dichloroethene        | ND< 9.68           |
| cis-1,2-Dichloroethene    | 323                |
| trans-1,2-Dichloroethene  | ND< 9.68           |
| 1,2-Dichloropropane       | ND< 9.68           |
| cis-1,3-Dichloropropene   | ND< 9.68           |
| trans-1,3-Dichloropropene | ND< 9.68           |
| Methylene chloride        | ND< 24.2           |
| 1,1,2,2-Tetrachloroethane | ND< 9.68           |
| Tetrachloroethene         | 52.8               |
| 1,1,1-Trichloroethane     | ND< 9.68           |
| 1,1,2-Trichloroethane     | 93.8               |
| Trichloroethene           | E 8,720            |
| Trichlorofluoromethane    | ND< 9.68           |
| Vinyl chloride            | 16.2               |

| Aromatics           | Results in ug / Kg |
|---------------------|--------------------|
| Benzene             | ND< 9.68           |
| Chlorobenzene       | ND< 9.68           |
| Ethylbenzene        | ND< 9.68           |
| Toluene             | 21.3               |
| m,p-Xylene          | ND< 9.68           |
| o-Xylene            | ND< 9.68           |
| Styrene             | ND< 9.68           |
| 1,2-Dichlorobenzene | ND< 9.68           |
| 1,3-Dichlorobenzene | ND< 9.68           |
| 1,4-Dichlorobenzene | ND< 9.68           |

| Ketones              | Results in ug / Kg |
|----------------------|--------------------|
| Acetone              | ND< 48.4           |
| 2-Butanone           | ND< 24.2           |
| 2-Hexanone           | ND< 24.2           |
| 4-Methyl-2-pentanone | ND< 24.2           |

| Miscellaneous    | Results in ug / Kg |
|------------------|--------------------|
| Carbon disulfide | 58.7               |
| Vinyl acetate    | ND< 24.2           |

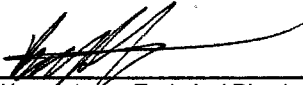
ELAP Number 10958

Method: EPA 8260B

Data File: V36535.D

 Comments: ND denotes Non Detect  
 ug / Kg = microgram per Kilogram

Signature:

  
 Bruce Hoogesteger: Technical Director

### Volatile Analysis Report for Non-potable Water

 Client: Hazard Evaluations

Client Job Site: PL-Mayville

Lab Project Number: 06-1527

Lab Sample Number: 5236

Client Job Number: 15207

Field Location: Trip Blank

Date Sampled: 05/11/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/26/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | ND< 2.00          |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | ND< 2.00          |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 22.8              |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B


Data File: V36577.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature:

  
 Bruce Hoogesteger, Technical Director

**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville  
 Client Job Number: 15207  
 Field Location: Equipment Blank  
 Field ID Number: N/A  
 Sample Type: Water

Lab Project Number: 06-1527  
 Lab Sample Number: 5237  
 Date Sampled: 05/11/2006  
 Date Received: 05/23/2006  
 Date Analyzed: 05/26/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | ND< 2.00          |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | ND< 2.00          |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 28.4              |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36578.D

Comments: ND denotes Non Detect  
 ug / L = microgram per Liter  
 E = Estimated value. Concentration exceeds calibration range.

Signature:   
 Bruce Hoogesteger: Technical Director

# PARADIGM ENVIRONMENTAL SERVICES, INC.

## CHAIN OF CUSTODY

18 172

179 Lake Avenue  
Rochester, NY 14608  
(585) 647-2530 • (800) 724-1997  
FAX: (585) 647-3311

|                                       |                              |            |                                 |          |                         |
|---------------------------------------|------------------------------|------------|---------------------------------|----------|-------------------------|
| REPORT TO                             |                              |            | INVOICE TO                      |          |                         |
| COMPANY: Hazard Evaluations, Inc.     | ADDRESS: 3836 N. Buffalo Rd. |            | COMPANY:                        | ADDRESS: |                         |
| CITY: Orchard Park                    | STATE: NY                    | ZIP: 14117 | CITY:                           | STATE:   | ZIP:                    |
| PHONE: (716) 667-3170                 | FAX: (716) 667-3156          | PHONE:     |                                 | FAX:     |                         |
| ATTN:                                 | ATTN:                        |            | LAB PROJECT #: 06-1527          |          | CLIENT PROJECT #: 15207 |
| PROJECT NAME/SITE NAME: PL - Mayville |                              |            | TURNAROUND TIME: (WORKING DAYS) |          | STD OTHER               |
| COMMENTS: Note Sample Date: Water HT  |                              |            | QUOTE #:                        |          | 1 2 3 5                 |

### REQUESTED ANALYSIS

| DATE    | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | COUNTABLES | REMARKS     | PARADIGM LAB SAMPLE NUMBER |
|---------|------|-----------|------|--------------------------|--------|------------|-------------|----------------------------|
| 5/10/06 |      |           | X    | SB8 (4'-8')              | Soil   | 1          |             | 5226                       |
| 5/11/06 |      |           | X    | SB10 (8'-12')            |        |            |             | 5227                       |
|         |      |           |      | SB10 (12'-14')           |        |            |             | 5228                       |
|         |      |           |      | SB11 (4'-8')             |        |            |             | 5229                       |
|         |      |           |      | SB13 (4'-8')             |        |            |             | 5230                       |
|         |      |           |      | SB16 (8'-12')            |        |            |             | 5231                       |
|         |      |           |      | SB16 (12'-14')           |        |            |             | 5232                       |
|         |      |           |      | SB17 (8'-12')            |        |            | Hot         | 5233                       |
|         |      |           |      | SB17 (12'-14') Clay      |        |            | Hot (10/14) | 5234                       |
|         |      |           |      | SB18 (8'-12')            |        |            |             | 5235                       |

\*\*LAB USE ONLY BELOW THIS LINE\*\*

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

| Receipt Parameter  | NELAC Compliance                      |                                       |
|--------------------|---------------------------------------|---------------------------------------|
| Container Type:    | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:          |                                       |                                       |
| Preservation:      | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:          |                                       |                                       |
| Holding Time:      | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:          |                                       |                                       |
| Temperature:       | Y <input type="checkbox"/>            | N <input checked="" type="checkbox"/> |
| Comments: 8°C iced |                                       |                                       |

|                                       |                             |                                  |
|---------------------------------------|-----------------------------|----------------------------------|
| Sampled By: <i>[Signature]</i>        | Date/Time: 5/12/06          | Total Cost: <input type="text"/> |
| Relinquished By: <i>[Signature]</i>   | Date/Time: 5/22/06          |                                  |
| Received By: <i>[Signature]</i>       | Date/Time: 5/22/06          | P.I.F. <input type="text"/>      |
| Received @ Lab By: <i>[Signature]</i> | Date/Time: 5/23/06 10:05 am |                                  |

PS-72

# PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue  
Rochester, NY 14608  
(585) 647-2530 • (800) 724-1997  
FAX: (585) 647-3311

## CHAIN OF CUSTODY

|                         |                           |        |                |                                 |  |                   |         |
|-------------------------|---------------------------|--------|----------------|---------------------------------|--|-------------------|---------|
| REPORT TO:              |                           |        |                | INVOICE TO:                     |  |                   |         |
| COMPANY:                | Hazard Evaluations, Inc.  |        |                | COMPANY:                        |  |                   |         |
| ADDRESS:                | 3836 N. Buffalo Rd.       |        |                | ADDRESS:                        |  |                   |         |
| CITY:                   | Onondaga Park             | STATE: | NY             | ZIP:                            | 14127  | LAB PROJECT #:    | 06-1527 |
| PHONE:                  | (716) 667-7130            | FAX:   | (716) 667-3156 | CITY:                           |  | STATE:            |         |
| ATTN:                   |                           | ATTN:  |                | ZIP:                            |  | CLIENT PROJECT #: | 157057  |
| PROJECT NAME/SITE NAME: | PC - Mayville             |        |                | TURNAROUND TIME: (WORKING DAYS) | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> STD <input type="checkbox"/> OTHER |                   |         |
| COMMENTS:               | Note Sample Dnt: Watch HT |        |                | QUOTE #:                        |  |                   |         |

### REQUESTED ANALYSIS

| DATE    | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAMINANT | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|---------|------|-----------|------|--------------------------|--------|-------------|---------|----------------------------|
| 5/11/06 |      |           | X    | Trip Blank               | W      | 2           |         | 5236                       |
| 5/11/06 |      |           | X    | Equipment Blank          | W      | 2           |         | 5237                       |
| 5/11/06 |      |           | X    | SBS 8'-12'               | S.L    | 1           |         | 5238                       |
| 4       |      |           |      |                          |        |             |         |                            |
| 5       |      |           |      |                          |        |             |         |                            |
| 6       |      |           |      |                          |        |             |         |                            |
| 7       |      |           |      |                          |        |             |         |                            |
| 8       |      |           |      |                          |        |             |         |                            |
| 9       |      |           |      |                          |        |             |         |                            |
| 10      |      |           |      |                          |        |             |         |                            |

**\*\*LAB USE ONLY BELOW THIS LINE\*\***

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

| Receipt Parameter | NELAC Compliance                      |                                       |
|-------------------|---------------------------------------|---------------------------------------|
| Container Type:   | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:         |                                       |                                       |
| Preservation:     | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:         |                                       |                                       |
| Holding Time:     | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:         |                                       |                                       |
| Temperature: 8°C  | Y <input type="checkbox"/>            | N <input checked="" type="checkbox"/> |
| Comments:         | iced                                  |                                       |

Sampled By: *[Signature]* Date/Time: 5/12/06  
 Relinquished By: *[Signature]* Date/Time: 5/22/06  
 Received By: *[Signature]* Date/Time: 5/22/06  
 Received @ Lab By: Elizabeth A. March Date/Time: 5/23/06 10:05 am

Total Cost:

P.I.F.





**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5239

Client Job Number: 15207

Field Location: SB1

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               |   | Results in ug / L |
|---------------------------|---|-------------------|
| cis-1,2-Dichloroethene    |   | 18,100            |
| Methylene chloride        |   | ND< 500           |
| 1,1,2,2-Tetrachloroethane |   | ND< 200           |
| Tetrachloroethene         |   | 497               |
| 1,1,2-Trichloroethane     |   | 1,210             |
| Trichloroethene           | E | 132,000           |
| Vinyl chloride            |   | 4,660             |

| Aromatics    |  | Results in ug / L |
|--------------|--|-------------------|
| Ethylbenzene |  | ND< 200           |
| Toluene      |  | ND< 200           |
| m,p-Xylene   |  | ND< 200           |
| o-Xylene     |  | ND< 200           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36545.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5240

Client Job Number: 15207

Field Location: SB2

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/26/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | ND< 2.00          |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | ND< 2.00          |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 14.6              |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36579.D

Comments: ND denotes Non Detect  
ug / L = microgram per Liter  
E = Estimated value. Concentration exceeds calibration range.

Signature:   
Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5243

Client Job Number: 15207

Field Location: SB5

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/26/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | ND< 2.00          |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | ND< 2.00          |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 18.4              |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36586.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature:   
 Bruce Hoogesteger, Technical Director

**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5245

Client Job Number: 15207

Field Location: SB7

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/26/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | ND< 2.00          |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | ND< 2.00          |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 30.5              |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36587.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

### Volatile Analysis Report for Non-potable Water

Client: Hazard Evaluations, Inc.

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5245

Client Job Number: 15207

Field Location: SB7

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/26/2006

Date Reissued: 06/28/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| Bromodichloromethane      | ND< 2.00          |
| Bromomethane              | ND< 2.00          |
| Bromoform                 | ND< 2.00          |
| Carbon Tetrachloride      | ND< 2.00          |
| Chloroethane              | ND< 2.00          |
| Chloromethane             | ND< 2.00          |
| 2-Chloroethyl vinyl Ether | ND< 2.00          |
| Chloroform                | ND< 2.00          |
| Dibromochloromethane      | ND< 2.00          |
| 1,1-Dichloroethane        | ND< 2.00          |
| 1,2-Dichloroethane        | ND< 2.00          |
| 1,1-Dichloroethene        | ND< 2.00          |
| cis-1,2-Dichloroethene    | ND< 2.00          |
| trans-1,2-Dichloroethene  | ND< 2.00          |
| 1,2-Dichloropropane       | ND< 2.00          |
| cis-1,3-Dichloropropene   | ND< 2.00          |
| trans-1,3-Dichloropropene | ND< 2.00          |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | ND< 2.00          |
| 1,1,1-Trichloroethane     | ND< 2.00          |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 30.5              |
| Trichlorofluoromethane    | ND< 2.00          |
| Vinyl chloride            | ND< 2.00          |

| Aromatics           | Results in ug / L |
|---------------------|-------------------|
| Benzene             | ND< 0.700         |
| Chlorobenzene       | ND< 2.00          |
| Ethylbenzene        | ND< 2.00          |
| Toluene             | ND< 2.00          |
| m,p-Xylene          | ND< 2.00          |
| o-Xylene            | ND< 2.00          |
| Styrene             | ND< 2.00          |
| 1,2-Dichlorobenzene | ND< 2.00          |
| 1,3-Dichlorobenzene | ND< 2.00          |
| 1,4-Dichlorobenzene | ND< 2.00          |

| Ketones              | Results in ug / L |
|----------------------|-------------------|
| Acetone              | ND< 10.0          |
| 2-Butanone           | ND< 5.00          |
| 2-Hexanone           | ND< 5.00          |
| 4-Methyl-2-pentanone | ND< 5.00          |

| Miscellaneous    | Results in ug / L |
|------------------|-------------------|
| Carbon disulfide | ND< 5.00          |
| Vinyl acetate    | ND< 5.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36587.D

Comments: ND denotes Non Detect  
ug / L = microgram per Liter

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5246

Client Job Number: 15207

Field Location: SB8

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               |   | Results in ug / L |
|---------------------------|---|-------------------|
| cis-1,2-Dichloroethene    | E | 396               |
| Methylene chloride        |   | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane |   | ND< 2.00          |
| Tetrachloroethene         |   | ND< 2.00          |
| 1,1,2-Trichloroethane     |   | ND< 2.00          |
| Trichloroethene           | E | 773               |
| Vinyl chloride            |   | 21.0              |

| Aromatics    |  | Results in ug / L |
|--------------|--|-------------------|
| Ethylbenzene |  | ND< 2.00          |
| Toluene      |  | 2.01              |
| m,p-Xylene   |  | ND< 2.00          |
| o-Xylene     |  | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36551.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5247

Client Job Number: 15207

Field Location: SB9

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               |   | Results in ug / L |
|---------------------------|---|-------------------|
| cis-1,2-Dichloroethene    | E | 58,900            |
| Methylene chloride        |   | ND< 500           |
| 1,1,2,2-Tetrachloroethane |   | ND< 200           |
| Tetrachloroethene         |   | 444               |
| 1,1,2-Trichloroethane     |   | ND< 200           |
| Trichloroethene           | E | 134,000           |
| Vinyl chloride            |   | 6,840             |

| Aromatics    |  | Results in ug / L |
|--------------|--|-------------------|
| Ethylbenzene |  | ND< 200           |
| Toluene      |  | ND< 200           |
| m,p-Xylene   |  | ND< 200           |
| o-Xylene     |  | ND< 200           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36552.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

### Volatile Analysis Report for Non-potable Water

 Client: Hazard Evaluations, Inc.

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5247

Client Job Number: 15207

Field Location: SB9

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

Date Reissued: 06/28/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| Bromodichloromethane      | ND< 200           |
| Bromomethane              | ND< 200           |
| Bromoform                 | ND< 200           |
| Carbon Tetrachloride      | ND< 200           |
| Chloroethane              | ND< 200           |
| Chloromethane             | ND< 200           |
| 2-Chloroethyl vinyl Ether | ND< 200           |
| Chloroform                | ND< 200           |
| Dibromochloromethane      | ND< 200           |
| 1,1-Dichloroethane        | ND< 200           |
| 1,2-Dichloroethane        | ND< 200           |
| 1,1-Dichloroethene        | ND< 200           |
| cis-1,2-Dichloroethene    | E 58,900          |
| trans-1,2-Dichloroethene  | 382               |
| 1,2-Dichloropropane       | ND< 200           |
| cis-1,3-Dichloropropene   | ND< 200           |
| trans-1,3-Dichloropropene | ND< 200           |
| Methylene chloride        | ND< 500           |
| 1,1,2,2-Tetrachloroethane | ND< 200           |
| Tetrachloroethene         | 444               |
| 1,1,1-Trichloroethane     | ND< 200           |
| 1,1,2-Trichloroethane     | ND< 200           |
| Trichloroethene           | E 134,000         |
| Trichlorofluoromethane    | ND< 200           |
| Vinyl chloride            | 6,840             |

ELAP Number 10958

Method: EPA 8260B

Data File: V36552.D

| Aromatics           | Results in ug / L |
|---------------------|-------------------|
| Benzene             | ND< 70.0          |
| Chlorobenzene       | ND< 200           |
| Ethylbenzene        | ND< 200           |
| Toluene             | ND< 200           |
| m,p-Xylene          | ND< 200           |
| o-Xylene            | ND< 200           |
| Styrene             | ND< 200           |
| 1,2-Dichlorobenzene | ND< 200           |
| 1,3-Dichlorobenzene | ND< 200           |
| 1,4-Dichlorobenzene | ND< 200           |

| Ketones              | Results in ug / L |
|----------------------|-------------------|
| Acetone              | ND< 1,000         |
| 2-Butanone           | ND< 500           |
| 2-Hexanone           | ND< 500           |
| 4-Methyl-2-pentanone | ND< 500           |

| Miscellaneous    | Results in ug / L |
|------------------|-------------------|
| Carbon disulfide | ND< 500           |
| Vinyl acetate    | ND< 500           |

 Comments: ND denotes Non Detect  
 ug / L = microgram per Liter

Signature:

  
 Bruce Hoogesteger Technical Director





**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5248

Client Job Number: 15207

Field Location: SB10

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               |   | Results in ug / L |
|---------------------------|---|-------------------|
| cis-1,2-Dichloroethene    | E | 1,470             |
| Methylene chloride        |   | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane |   | ND< 2.00          |
| Tetrachloroethene         |   | 2.27              |
| 1,1,2-Trichloroethane     |   | ND< 2.00          |
| Trichloroethene           | E | 1,410             |
| Vinyl chloride            | E | 318               |

| Aromatics    |  | Results in ug / L |
|--------------|--|-------------------|
| Ethylbenzene |  | ND< 2.00          |
| Toluene      |  | ND< 2.00          |
| m,p-Xylene   |  | ND< 2.00          |
| o-Xylene     |  | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36553.D

Comments: ND denotes Non Detect  
ug / L = microgram per Liter  
E = Estimated value. Concentration exceeds calibration range.

Signature:   
Bruce Hoogesteger, Technical Director

**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5249

Client Job Number: 15207

Field Location: SB11

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/26/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | 164               |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | 7.08              |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 77.7              |
| Vinyl chloride            | 6.69              |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36588.D

Comments: ND denotes Non Detect  
ug / L = microgram per Liter  
E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5251

Client Job Number: 15207

Field Location: SB13

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | 33.4              |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | 3.86              |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | E 552             |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36555.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5254

Client Job Number: 15207

Field Location: SB16

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | 9.11              |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | ND< 2.00          |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | E 711             |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B

Data File: V36556.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5255

Client Job Number: 15207

Field Location: SB17

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               |   | Results in ug / L |
|---------------------------|---|-------------------|
| cis-1,2-Dichloroethene    | E | 10,600            |
| Methylene chloride        |   | ND< 50.0          |
| 1,1,2,2-Tetrachloroethane |   | ND< 20.0          |
| Tetrachloroethene         |   | 551               |
| 1,1,2-Trichloroethane     |   | 57.9              |
| Trichloroethene           | E | 16,600            |
| Vinyl chloride            |   | 190               |

| Aromatics    |  | Results in ug / L |
|--------------|--|-------------------|
| Ethylbenzene |  | 23.9              |
| Toluene      |  | 47.5              |
| m,p-Xylene   |  | 71.8              |
| o-Xylene     |  | 21.9              |

ELAP Number 10958

Method: EPA 8260B


Data File: V36557.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

  
Bruce Hoogesteger: Technical Director

**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5256

Client Job Number: 15207

Field Location: SB18

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/25/2006

| Halocarbons               |   | Results in ug / L |
|---------------------------|---|-------------------|
| cis-1,2-Dichloroethene    |   | 10,500            |
| Methylene chloride        |   | ND< 500           |
| 1,1,2,2-Tetrachloroethane |   | ND< 200           |
| Tetrachloroethene         |   | 540               |
| 1,1,2-Trichloroethane     |   | 1,550             |
| Trichloroethene           | E | 151,000           |
| Vinyl chloride            |   | 335               |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 200           |
| Toluene      | ND< 200           |
| m,p-Xylene   | ND< 200           |
| o-Xylene     | ND< 200           |

ELAP Number 10958

Method: EPA 8260B

Data File: V36558.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director



**Volatile Analysis Report for Non-potable Water**

Client: **Hazard Evaluations**

Client Job Site: PL-Mayville

Lab Project Number: 06-1528

Lab Sample Number: 5257

Client Job Number: 15207

Field Location: SB19

Date Sampled: 05/12/2006

Field ID Number: N/A

Date Received: 05/23/2006

Sample Type: Water

Date Analyzed: 05/26/2006

| Halocarbons               | Results in ug / L |
|---------------------------|-------------------|
| cis-1,2-Dichloroethene    | ND< 2.00          |
| Methylene chloride        | ND< 5.00          |
| 1,1,2,2-Tetrachloroethane | ND< 2.00          |
| Tetrachloroethene         | 4.07              |
| 1,1,2-Trichloroethane     | ND< 2.00          |
| Trichloroethene           | 86.6              |
| Vinyl chloride            | ND< 2.00          |

| Aromatics    | Results in ug / L |
|--------------|-------------------|
| Ethylbenzene | ND< 2.00          |
| Toluene      | ND< 2.00          |
| m,p-Xylene   | ND< 2.00          |
| o-Xylene     | ND< 2.00          |

ELAP Number 10958

Method: EPA 8260B


Data File: V36583.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

E = Estimated value. Concentration exceeds calibration range.

Signature: \_\_\_\_\_

  
Bruce Hoogesteger: Technical Director

**CHAIN OF CUSTODY**

**PARADIGM ENVIRONMENTAL SERVICES, INC.**

179 Lake Avenue  
Rochester, NY 14608  
(585) 647-2530 • (800) 724-1997  
FAX: (585) 647-3311

|  |                              |            |  |          |              |
|--|------------------------------|------------|--|----------|--------------|
| REPORT TO:   |                              |            | INVOICE TO:  |          |              |
| COMPANY: Hazard Evaluations Inc.                                   | ADDRESS: 3836 N. Buffalo RD. |            | COMPANY:   | ADDRESS: |              |
| CITY: Orchard Park   | STATE: NY                    | ZIP: 14227 | CITY:  | STATE:   | ZIP:         |
| PHONE: (716) 669-3130  | FAX: (716) 669-3156          | PHONE:     |  | FAX:     |              |
| PROJECT NAME/SITE NAME: PL - Mayville                              |                              |            | ATTN:  |          | ATTN:        |
| COMMENTS: NOTE Sample Date, Watch HT / Analyze VOA without bubbles |                              |            | ATTN:  |          | ATTN:        |
|  |                              |            | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 |          | STD<br>OTHER |
|  |                              |            | QUOTE #:   |          |              |

**REQUESTED ANALYSIS**

| DATE    | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAMINERS | REMARKS      | PARADIGM LAB SAMPLE NUMBER |
|---------|------|-----------|------|--------------------------|--------|-------------|--------------|----------------------------|
| 5/12/06 |      |           | X    | SB1                      | 60     | X           | Hot          | 5239                       |
|         |      |           |      | SB2                      |        |             |              | 5240                       |
|         |      |           |      | SB3                      |        |             | Hot cap      | 5241                       |
|         |      |           |      | SB4                      |        |             |              | 5242                       |
|         |      |           |      | SB5                      |        |             |              | 5243                       |
|         |      |           |      | SB6                      |        |             | SB6 Hold cap | 5244                       |
|         |      |           |      | SB7                      |        |             |              | 5245                       |
|         |      |           |      | SB8                      |        |             |              | 5246                       |
|         |      |           |      | SB9                      |        |             | Hot          | 5247                       |
|         |      |           |      | SB10                     |        |             |              | 5248                       |

**\*\*LAB USE ONLY BELOW THIS LINE\*\***

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

| Receipt Parameter     | NELAC Compliance                      |                                       |
|-----------------------|---------------------------------------|---------------------------------------|
| Container Type:       | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:             |                                       |                                       |
| Preservation:         | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:             |                                       |                                       |
| Holding Time:         | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/>            |
| Comments:             |                                       |                                       |
| Temperature:          | Y <input type="checkbox"/>            | N <input checked="" type="checkbox"/> |
| Comments: 1000 cooled |                                       |                                       |

|                                     |                             |                                  |
|-------------------------------------|-----------------------------|----------------------------------|
| Sampled By: <i>[Signature]</i>      | Date/Time: 5/12/06          | Total Cost: <input type="text"/> |
| Relinquished By: <i>[Signature]</i> | Date/Time: 5/22/06          |                                  |
| Received By: <i>[Signature]</i>     | Date/Time: 5/23/06 10:20 am | P.I.F. <input type="text"/>      |
| Received @ Lab By:                  | Date/Time:                  |                                  |



# CHAIN OF CUSTODY

## PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue  
Rochester, NY 14608  
(585) 647-2530 • (800) 724-1997  
FAX: (585) 647-3311

|  |                              |            |                         |          |      |
|--|------------------------------|------------|-------------------------|----------|------|
| REPORT TO:   |                              |            | INVOICE TO:             |          |      |
| COMPANY: Hazard Evaluations Inc.                                   | ADDRESS: 3836 N. Buffalo RD. |            | COMPANY:                | ADDRESS: |      |
| CITY: Orchard Park   | STATE: NY                    | ZIP: 14127 | CITY:                   | STATE:   | ZIP: |
| PHONE: (916) 667-3130  | FAX: (916) 667-3156          | PHONE:     |                         | FAX:     |      |
| ATTN:  |                              |            | ATTN:                   |          |      |
| COMMENTS: Note Sample Date: Watch HT / Analyze Vol 1 - Lead Bubble |                              |            | QUOTE #:                |          |      |
| LAB PROJECT #: 06-1528   |                              |            | CLIENT PROJECT #: 15207 |          |      |
| TURNAROUND TIME: (WORKING DAYS)                                    |                              |            | STD OTHER               |          |      |
| 1  |                              |            | 2                       |          |      |
| 3  |                              |            | 5                       |          |      |

PROJECT NAME/SITE NAME:  
P2 - Mayville

### REQUESTED ANALYSIS

| DATE    | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAMINERS | REMARKS                        | PARADIGM LAB SAMPLE NUMBER |
|---------|------|-----------|------|--------------------------|--------|-------------|--------------------------------|----------------------------|
| 5/12/06 |      |           | X    | SB11                     | GW     | X           |                                | 5249                       |
|         |      |           |      | SB12                     |        |             | Hot Hold CPC MH 5/14/06        | 5250                       |
|         |      |           |      | SB13                     |        |             | CPC Hold SB13                  | 5251                       |
|         |      |           |      | SB14                     |        |             | Hot Hold Little CPC MH 5/14/06 | 5252                       |
|         |      |           |      | SB15                     |        |             | SB15 CPC Hold MH 5/14/06       | 5253                       |
|         |      |           |      | SB16                     |        |             | Hold                           | 5254                       |
|         |      |           |      | SB17                     |        |             | Hot                            | 5255                       |
|         |      |           |      | SB18                     |        |             | Hot                            | 5256                       |
|         |      |           |      | SB19                     |        |             |                                | 5257                       |
|         |      |           |      |                          |        |             |                                |                            |
|         |      |           |      |                          |        |             |                                |                            |
|         |      |           |      |                          |        |             |                                |                            |
|         |      |           |      |                          |        |             |                                |                            |
|         |      |           |      |                          |        |             |                                |                            |
|         |      |           |      |                          |        |             |                                |                            |

\*\*LAB USE ONLY BELOW THIS LINE\*\*

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

| Receipt Parameter    | NELAC Compliance   |
|----------------------|--|
| Container Type:      | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| Comments:            |  |
| Preservation:        | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| Comments:            |  |
| Holding Time:        | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| Comments:            |  |
| Temperature:         | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> |
| Comments: 10°C rec'd |  |

|                                       |                             |                                  |
|---------------------------------------|-----------------------------|----------------------------------|
| Sampled By: <i>[Signature]</i>        | Date/Time: 5/12/06          | Total Cost: <input type="text"/> |
| Relinquished By: <i>[Signature]</i>   | Date/Time: 5/22/06          |                                  |
| Received By: <i>[Signature]</i>       | Date/Time: 5/22/06          | P.I.F. <input type="text"/>      |
| Received @ Lab By: <i>[Signature]</i> | Date/Time: 5/23/06 10:25 AM |                                  |