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Report.HW.336025.12-17-2001.CommentsOnWorkplanGroundwaterSampling

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
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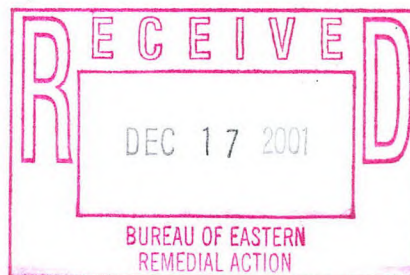
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OCT 31 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Paul H. Ciminello
President
Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603-2332

Re: Wallkill Well Field Site (Site)
Middletown, New York



Dear Mr. Ciminello:

This letter pertains to the *Interim Summary Data Report of Groundwater Sampling* (Report) as dated April 27, 2001, as prepared by Ecosystems Strategies, Inc. (ESI), and as submitted to the United States Environmental Protection Agency (EPA) on behalf of Laurwal Holding Corporation, the potentially responsible party with respect to the Site.

The purpose of this letter is to advise ESI that the Report can not be accepted by the EPA in its present form due to the failure on the part of ESI to validate the collected data. The complete comments of the EPA are enclosed.

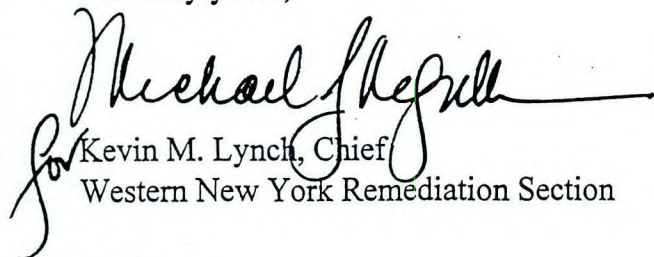
ESI shall initiate immediate arrangements to re-sample the appropriate wells, prepare a revised Report, and re-submit such revised Report to the EPA for its review and approval.

In addition, the EPA's complete comments, as enclosed, shall be addressed in a meeting between the EPA and ESI at a point prior to the conducting of any field work by ESI. The purpose of the meeting will be to review the enclosed comments of the EPA so as to prevent any recurrence in the revised Report of the problems described in such comments. Please contact Paul J. Olivo of my staff at 212-637-4280 so that a date and time in the immediate future can be established for such meeting.

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If you have any additional questions or comments on this matter, again you should contact Paul J. Olivo.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "Kevin M. Lynch", with a long horizontal flourish extending to the right. The signature is written over the typed name and title.

Kevin M. Lynch, Chief
Western New York Remediation Section

:enclosure

cc: W. Stern - Laurwal Holding Corporation
M. Baker - Salans, Hertzfeld

Re: Wallkill Well Field Site (the "Site")
(formerly known as the "General Switch Site")
City of Middletown
Orange County, New York
Comments of the U.S. Environmental Protection Agency (EPA) to the *Interim Summary Data Report of Groundwater Sampling* (the "Report") as dated April 27, 2001, as prepared by Ecosystems Strategies, Inc. (ESI) of Poughkeepsie, New York, and as submitted for review and approval to the EPA on behalf of Laurwal Holding Corporation (Laurwal) of Hartsdale, New York.

The following are the comments of the EPA:

General Comments:

- 1.- The Report can not be accepted by the EPA in its present form due to the failure on the part of ESI to validate the data. It follows that the conclusions and recommendations of the Report are likewise unacceptable. The appropriate wells must be re-sampled, the new data validated, and a revised Report submitted to the EPA.
- 2.- The proposed design objective of reducing on-Site PCE concentrations in ground water to levels no greater than 500 ug/l is not protective of human health or the environment. Such plan would be several orders of magnitude higher than federal standards.
- 3.- Additional wells are required. Neither the lateral, vertical or downgradient extent of ground-water contamination has been defined from this sampling effort, and the nonvalidated sampling results indicate that source areas remain. While interim ground-water remediation steps may be appropriate, additional exploratory drilling in both unconsolidated and bedrock formations is necessary. Direct push technologies may be applicable for some of the exploratory pilot borings.
- 4.- Following completion of the new ground-water sampling and validation, quarterly sampling of all wells shall be initiated to develop a database that shows the seasonal variations in concentrations.

Specific Comments:

- 1.- Section 1.2, Limitations, Page 1 -
This section shall be deleted in its entirety. ESI must be prepared to submit a data report without qualifications or disclaimers of this type.
- 2.- Section 1.3.1, Site Geology and Hydrogeology, Page 2 -
This section references a March 1993 draft Partial Site Characterization Report as the basis of its brief description of hydrogeology and geology at the Site. The Site

Characterization Report submitted in 1994 (Jacobs Environmental, 1994) should be reviewed and referenced. The summary of the hydrogeologic conditions within the region and on the Site is inadequate and must be expanded.

3.- Section 1.4, Previous Environmental Reports, Page 2 -

This section refers to the September 23, 1999 Summary Report of Soils Remediation Activities. The section must be expanded to summarize the locations and depths of the excavations, quantities of removed soil, and the levels of contaminants detected. The section must also identify the approved work plan for the soil removal.

4.- Section 2.1, Specified Objectives, Page 4 -

This section states that the two objectives for the sampling are the following:

- a.- to document and evaluate current ground-water conditions; and,
- b.- to assess the need for the installation of additional monitoring wells with specific locations and justification.

The following data gaps/comments must be addressed in light of the stated objectives:

- i.- No documentation was presented regarding the actual field indicator parameters prior to sampling. ESI must submit water-quality field-monitoring data recorded during low-flow monitoring-well purging activities.
- ii.- No validation of the sampling results was conducted due to loss of data by the laboratory. Since the data validation was not conducted, the results of both sampling rounds must be invalidated meaning that such results can not be accepted by the EPA.
- iii.- ESI must discuss the significant difference in the reported results obtained in December and January, and the detections of Site contaminants in the field and equipment blanks.
- iv.- ESI must investigate the possibility that ground-water samples from MW-2-2 and MW-202-2 were misidentified.

5.- Section 2.2.3, Field Work Methodology, Page 5 -

This section indicates that the monitoring wells were "developed" prior to sampling in December 2000, using the submersible low-flow pump, and also that the pump was lowered and raised in the well to "surge" the well screen. Well development is not a part of the EPA's low flow/low stress purging procedure incorporated into ESI's Work Plan, which is intended to minimize disturbance of fines. Surging could agitate and aerate the ground water in the monitoring well, degrading the sample quality for VOC analysis. ESI shall clarify the description of its field activities. ESI shall also describe the rationale for monitoring well redevelopment, which is a deviation from the Work Plan. The EPA's contractor's field-oversight representative did not observe well-surging activities during the ground-water sampling event held on December 12, 2000.

6.- Section 3.2, Discussion of Current Data, Page 7 -

Since the sampling results as stated in the Report must be treated as invalid and the wells must be resampled, the EPA's comments regarding this section are limited. The preliminary results for MW-204, a deep bedrock well in the general downgradient direction of some of the source area, are indicated to have increased from roughly 1,300 ug/l of PCE in 1992 to 2,400 ug/l in Dec 2000 and 1600 ug/l in January 2001. The Report, however, includes this well location in its general statement that the sampling events indicate distinct general reductions in peak PCE concentrations. An alternate explanation is that there are potential exiting source areas that have not been removed and that a portion of the ground-water contamination is migrating deeper into the bedrock aquifer. The sampling pumps' installation depths in the open-bedrock monitoring wells must be identified and discussed in the revised Report, as DNAPL or high concentrations of solvents can be entering the well through discrete fractures.

7.- Section 3.3, Comparison of 1992 Data with Current Data, Page 9 and Appendix B, Table 1 -

For monitoring wells MW-3 and MW-4, the PCE results from the October 1992 sampling event, summarized on page 9 and in Table 1, do not agree with the results reported on Map 5-5 of the Site Characterization Report (Shakti Consultants, 1994). The discrepancy shall be evaluated and corrected, and all summary tables re-checked.

Well No.	Oct. 1992 Result (SCR Report)*	Oct. 1992 Result (ESI Report)
MW-3	11,000 ug/l	2,500 ug/l
MW-4	26,000 ug/l	15,000 ug/l

*Source: Map 5-5, Tetrachloroethylene Groundwater Sample Results, 10/26/92 to 11/9/92 from Second Round, Monitoring Wells in Shallow Glacial Till (Shakti Consultants, 1994).

8.- Section 3.4, Discussion of PCE Breakdown Compounds Current and Previous, Page 10 -

The EPA has published guidance which provide specific information on monitoring requirements and analyses to be conducted in order to assess the potential for natural attenuation to occur at a site. If ESI intends to implement a natural attenuation monitoring program at the Site, an appropriate amendment to the Interim Groundwater Remediation Work Plan, demonstrating adherence to the applicable EPA guidance, should be prepared by ESI and submitted to the EPA for review and approval.

The comparison of ground-water samples from MW-204 (20 ug/l trichloroethylene detected in October 1992 versus 16 ug/l (Dec 2000) and 150 ug/l (Jan 2001) does not support ESI's conclusion that metabolite concentrations increase as dechlorination

proceeds via the process of bio-attenuation. This statement is unacceptable since the reported concentrations of PCE at MW-204 were higher in the 2000/2001 samples than in the 1992 samples.

9.- Section 3.5, Groundwater Flow, Page 10 -

The direction of ground-water flow shown on the referenced figure is only a general approximation of actual ground-water gradients. The Report does not include the depth to ground-water elevations referred to in Section 3.5. Potentiometric maps for each aquifer shall be prepared based on accurate synoptic water-level measurements. Previous reports have indicated potential flow farther westward than indicated.

10.- Section 4.0, Conclusions and Recommendations, Page 11 -

Item no. 2 at the (top of the page) states that there is an "obvious decrease in contamination levels from the June(?) / October 1992 sampling events." The EPA does not agree with the conclusion, since there was often a large variability in contaminant concentrations detected during the two 1992 sampling events. For example, at deep bedrock well MW-203, the detected PCE concentration during the second round of 1992 sampling (1,100 ug/L) is lower than either sample result obtained in 2000-2001 (6,000 and 3,100 ug/L).

11.- Section 4.0, Conclusions and Recommendations, Page 11 -

Item no. 1 (beneath "recommendations") proposes the installation of a new monitoring well in the vicinity of MW-11. ESI should conduct an additional investigation to identify productive locations for the new cross-gradient wells to the east of MW-11, for example, geoprobe borings, prior to mobilizing a drill rig for the actual monitoring-well installation work.

12.- Section 4.0, Conclusions and Recommendations, Page 12 -

The descriptions of overburden geology and hydrogeology ("no true water table aquifer," low permeability of till stratum - refer to Section 1.3.1) indicate that an extraction well might not be an effective remedial alternative. ESI shall identify and shall evaluate a number of remedial technologies for implementation at the Site, perhaps also including a reactive wall or an interceptor trench located above the shale stratum, as would be conducted in a Feasibility Study report.

13.- Site Location Map and USGS Topographic Map, Appendix A -

The location of the subject property is shown differently on each map. The Site's location shall be corrected on the maps.

14.- PCE Concentration Figure, Appendix A -

The "call-out" boxes for monitoring wells MW-2, MW-7, and MW-207 indicate NPS or "no previous sampling data available" from the 1992 ground-water sampling events by Shakti Consultants. The text on pages 8-10 of the Report contradicts the information on the figure and presents 1992 data for these wells. The Report shall be corrected to consistently present historic sampling data.

INTERIM
SUMMARY DATA REPORT
OF GROUNDWATER SAMPLING

Performed for the
"General Switch" Property
located at
20 Industrial Place
City of Middletown
Orange County, New York

April 27, 2001

Prepared By:

ECOSYSTEMS STRATEGIES, INC.
60 WORRALL AVENUE
POUGHKEEPSIE, NEW YORK 12603
(845) 452-1658

ESI File Number: LM97145.40

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ESI File Number: LM97145.40

Prepared By:

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, New York 12603

Prepared For:

Laurwal Holding Corporation
P. O. Box 117
Hartsdale, New York 10530

The undersigned has reviewed this Report and certifies to Laurwal Holding Corporation that the information provided in this document is accurate as of the date of issuance by this office.

Any and all questions or comments, including requests for additional information, should be submitted to the undersigned.

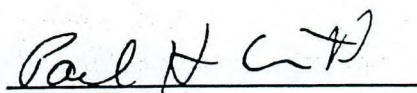

Paul H. Ciminello
President

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A Maps

Site Location Map

Topographic Map

PCE Concentrations (1992 & 2000)

Contaminant Concentration Distribution and Groundwater Flow Map

B Analytical Data Tables

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1.0 INTRODUCTION

1.1 Purpose

This Interim Summary Data Report of Groundwater Sampling ("Report") summarizes all field work and resulting analytical data from the December 2000 and January 2001 groundwater sampling events performed by Ecosystems Strategies, Inc. ("ESI") on specified dates on the property known as the General Switch Site ("Site") located at the intersection of Highland Avenue and Industrial Place in the City of Middletown, Orange County, New York.

The work summarized in this Report was performed to address the presence of perchloroethylene (PCE) in wells located on- and off-site. Field work objectives are identified in the Groundwater Remediation Workplan for General Switch Site ("Workplan") prepared by ESI, dated July 23, 1998 and later revised on June 20, 2000. Specific objectives are outlined in Section 2.1, below.

The purpose of this Report is to document all investigative activities performed on specified portions of the Site. This Report describes all field work methodology and groundwater sampling procedures, includes discussions of the resulting analytical data from collected water samples, and provides conclusions and recommendations drawn from the field work and analytical data.

1.2 Limitations

This written analysis is a summary of field work activities conducted on specified portions of the subject property, including portions adjacent to the property located at 20 Industrial Place in the City of Middletown, Orange County, New York and is not relevant to other portions of this property or any other property. It is a representation of those portions of the property and adjacent properties analyzed as of the respective dates of field work. This Report cannot be held accountable for activities or events resulting in contamination after the dates of field work.

Services summarized in this Report were performed in accordance with generally accepted practices and protocols established by the New York State Department of Environmental Conservation ("NYSDEC") and United States Environmental Protection Agency ("USEPA"). Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties, but as probabilities based on professional judgement.

1.3 Site Location and Description

The subject property is an irregularly-shaped, approximately 5-acre parcel known as the General Switch Site located on the southern side of Industrial Place. The portions of the property referenced as the "Site" are located on the property and on adjacent properties in the vicinity of the approximately 40,000-square-foot General Switch building.

The groundwater monitoring wells addressed in this report include monitoring wells located both on and off the subject property. These wells include MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-202, MW-203, MW-204, and MW-207. A map illustrating the locations of these wells as well as relevant site features is provided in Appendix A of this Report.

1.3.1 Site Geology and Hydrogeology

A site-specific investigation of site hydrogeology and soil types was conducted by Jacobs Environmental, Inc. ("Jacobs") and Shakti Consultants, Inc. ("Shakti") and reported in their Draft Partial Site Characterization Report ("Characterization Report") dated March 29, 1993.

According to Jacobs and Shakti, two soil types of glacial till comprise subsurface soils. A layer of orange-brown glacial till is located near the top of the soil profile. Below the till is a layer of gray clay characterized by fractured shale fragments located over fractured shale bedrock. Jacobs and Shakti state that the till acts as a confining layer and that no true water table aquifer is present in the shallow till soils at the site. Established permeability ranges for these soils are from 1.3×10^{-7} cm/sec to 6.4×10^{-7} cm/sec. Falling head and constant head permeability tests were performed. Additionally, bedrock and shale studies were conducted.

ESI conducted soil removal activities on site on various dates in 1998 and 1999. During this remedial activity fractured shale was encountered at depths of 11 to 12 feet below surface grade (bsg).

1.3.2 Site Topography

Information on the subject property's topography was obtained from the review of the United States Geological Survey (USGS) Topographic Map of the Middletown, New York Quadrangle (dated 1969 and photorevised in 1976) and field observations made by this office. A copy of the USGS Topographic Map with the subject property indicated is included in Appendix A of this Report.

According to the above-referenced topographic map and observations made during the site inspection, the topography of the area in which the subject property is located has a gentle downward slope to the east, toward Silver Lake. The topography of the subject property has surface elevations ranging from approximately 600 to 620 feet above mean sea level (msl).

According to observations made during field work activities, the topography of the subject property is sloped downward from the northwest (Highland Avenue) to the southwest (Industrial Place). On-site soils signify that fill was imported to level the property prior to construction of the on-site structure. The lowest property elevation is near the southern property edge adjacent to the north side of Industrial Street. A five- to fifteen-foot difference in elevation is apparent between the highest and lowest elevations on-site.

1.4 Previous Environmental Reports

The information contained in this section regarding previous environmental reports is provided to give the reader information regarding activities previously conducted on this site as they pertain to the work summarized in this Report.

Remedial activities had initially been deemed necessary based upon information obtained from prior investigative work conducted by Jacobs and Shakti (reported in March of 1993), Lawler, Matusky & Skelly Engineers, LLP ("Lawler") (reported in January of 1998), and United States Environmental Protection Agency ("USEPA") documents, including a Consent Decree based on a Complaint dated December 11, 1987. Prior investigations indicated the presence of PCE in soil and groundwater as a result of on-site discharges from historical manufacturing processes.

INTERIM SUMMARY DATA REPORT
LM97145.40

PAGE 3 OF 12
APRIL 27, 2001

After review of available documents and consultation with the property owner, an Interim Groundwater Remediation Workplan ("Workplan") dated July 23, 1998 (subsequently revised on June 20, 2000) was prepared by ESI. This Workplan was approved by the USEPA on June 20, 2000. Documents consulted during composition of the Workplan included but are not limited to the above-referenced Jacobs and Shakti Characterization Report, the Lawler Groundwater Remedial Design Work Plan, and the Consent Decree 87 Civ. 8789 (RJW) issued by the United States District Court for the Southern District of New York. A magnetometric survey of the property, although not available to this office, was conducted by Fred C. Hart Associates in 1984. Subsequently, in 1985 physical soil testing was conducted by Hart Associates.

According to a review of these reports, manufacturing activities at General Switch included the production of electrical switches, circuit breakers, and panel boards. The manufacturing process included the use of trichloroethylene ("TCE") and perchloroethylene ("PCE").

In 1983 PCE and TCE were identified in groundwater samples collected from adjoining and surrounding properties. As the result of this release, an investigation was conducted which included a hydrogeologic investigation conducted by Jacobs and Shakti. Findings presented in the documents prepared by Jacobs and Shakti and reviewed by this office revealed the presence of hazardous substances, including PCE and trace concentrations of trichloroethylene and trichloroethane, in on-site soils and groundwater. A review of documentation to this office indicated that groundwater samples collected from on-site and off-site wells were contaminated with PCE and TCE. Additionally soil samples collected from two specific locations designated the northern and southern hot spots were found to be contaminated with these compounds.

On September 23, 1999, ESI prepared a Summary Report of Soil Remediation Activities which detailed soil removal activities conducted in the northern and southern hot spot areas.

Based on a review of the available documents, the Workplan was developed to evaluate current groundwater conditions in light of historical groundwater quality and assess the potential for installation of additional wells and/or ultimately a groundwater remedial system. The field work summarized in this Report was performed to address the specified sampling requirements of the Workplan.

2.0 Fieldwork

2.1 Specified Objectives

ESI conducted groundwater sampling events on and adjacent to the subject property on December 12, 14, 15, 18, and 19, 2000. A second round of confirmatory sampling was conducted on January 15, 16, and 18, 2001 for all wells exhibiting concentrations of PCE exceeding five $\mu\text{g/l}$, as outlined in the Interim Groundwater Remediation Workplan. The work described in this Report was conducted:

- To document and evaluate current groundwater conditions;
- To assess the need for the installation of additional monitoring wells with specific locations and justification.

Field work conducted to achieve these objectives included the development and sampling of monitoring wells located both on and adjacent to the site, as is described in detail in Section 2.2, below.

This Report was prepared to document all field work activities and resulting analytical data and to provide conclusions pertaining to the groundwater sampling.

2.2 Groundwater Sampling

2.2.1 Notifications

Utility Markout

Underground utilities were located by notifying the "One Call" network. Marked utilities were checked to ensure completeness, and ESI inspected the site with the property owner to identify any additional known (e.g., private) subgrade utilities.

Access to Properties

Access to nearby properties, as required for well sampling, was obtained prior to the commencement of field work activities. No access to property or wells was denied by any of the private property owners with wells located on their property.

Agency Notification/ Oversight Mandate

The USEPA was notified in writing at least two weeks prior to the initiation of field work on December 7, 2000. Joe Claypool from Malcom Pirnie was on-site for the commencement of groundwater sampling on December 12, 2000, as mandated USEPA oversight. The USEPA recommended one day of oversight for this commencement round of sampling.

2.2.2 Field Screening

Prior to sampling, wells were screened using a PID calibrated to 100 parts per million calibration gas equivalents (ppm-ge) isobutylene in air. The wells were opened and screened, and where appropriate the inner well cover was opened and screened. Screening results were utilized in determining the presence or absence of elevated concentrations of PCE vapors in the work area. The results were recorded in ESI Field Logs (see Section 2.2.4, below).

2.2.3 Field Work Methodology

Prior to sampling, the eighteen (18) groundwater monitoring wells were developed on December 12, 14, 15, 18, and 19, 2000. All well development was conducted using a Grundfoss Low Flow pump to restore the natural hydraulic connection between the well screen and water table, to reduce turbidity, and to remove fines and drilling/well installation fluids or materials. Each well was developed using the 1.5-inch diameter, properly decontaminated, stainless steel submersible Grundfoss Low Flow pump with dedicated Teflon-lined tubing attached. All development water was placed in a mobile 275-gallon AST for collection and eventual off-site disposal.

The new unused lengths of tubing reserved for each well were stored in clean plastic bags until ready for use and handled with new clean latex gloves at every well location. The pump was raised and lowered 1 to 2 feet within various portions of the screened interval to force groundwater back and forth throughout the well screen. Well development commenced at the top of the saturated portion of the screened interval to prevent clogging of the pump within the well casing.

Field indicator parameters, i.e. temperature, pH, specific conductance, dissolved oxygen, turbidity, and salinity were measured during well purging to ensure that the well had been properly developed. A Horiba U-22 instrument was used for this purpose. Well development was considered adequate when the field-measured parameter readings stabilized, as outlined on Page 7 of the USEPA Region 2 Groundwater Sampling Procedures, included in Appendix G of the Interim Groundwater Remediation Workplan. All observations, including turbidity, odor, presence of a sheen, etc, and instrument measurements, were recorded in a bound field notebook.

After well development, groundwater samples were collected (see the Contaminant Concentration Distribution and Groundwater Flow Map in Appendix A for monitoring well locations) using dedicated Teflon-lined tubing. The first round of sampling conducted on all 18 wells on December 12, 14, 15, 18, and 19, 2000 included the following monitoring wells which are listed in the order sampled: MW-1, MW-7, MW-2, MW-8, MW-12, MW-202, MW-207, MW-16, MW-3, MW-11, MW-4, MW-203, MW-204, MW-9, MW-10, MW-14, MW-13, and MW-5. The second confirmatory round of sampling conducted on January 15, 16, and 19, 2001 included monitoring wells which exhibited PCE levels greater than 5 µg/l: MW-2, MW-202, MW-6, MW-9, MW-13, MW-204, MW-203, MW-3, MW-14, MW-4, MW-16, and MW-5.

Sampling pumps and the Horiba U-22 were decontaminated in accordance with the procedures outlined in the USEPA Region 2 Groundwater Sampling Procedures, included in Appendix G of the Interim Groundwater Remediation Workplan. Other re-usable sampling equipment was decontaminated in the following manner:

1. Pressure wash with water and a designated brush to remove any visible dirt.
2. Wash and scrub in a mild detergent (e.g., Alconox) and de-ionized water using a designated brush.
3. Rinse with de-ionized water.
4. Rinse 10% Nitric Acid solution.
5. Rinse with de-ionized water.
6. Rinse with methanol.
7. Rinse with de-ionized water.
8. Allow to air dry and use immediately or wrap in aluminum foil (shiny side out).

2.2.4 Field Logs

An assessment of groundwater characteristics, including the presence of foreign materials, field indications of contamination (e.g., unusual coloration patterns or odors), and instrument indications of contamination (i.e., photo-ionization detector (PID) readings) was made by ESI personnel during the groundwater sampling event. ESI personnel maintained field logs documenting the physical characteristics of the encountered groundwater, PID readings, and any field indications of contamination for all encountered material.

2.3 Sample Collection

2.3.1 Sample Collection Procedures

Notations were made regarding the sampled materials' physical characteristics (e.g., color, odor, viscosity). At each sample location a sufficient volume of groundwater was collected for the known required analyses, and for any potential additional analyses. One (1) trip blank was utilized for each day of sampling during the December 2000 sampling event. One trip blank, one equipment blank, and one field blank were utilized for each day of the second confirmation sampling event.

All groundwater samples were collected in a manner consistent with USEPA and NYSDEC sample collection protocols (See Section 2.2.3 above). Samples were collected directly into laboratory-sterilized, 40-milliliter vials containing Hydrochloric Acid as a preservative (Protocol B).

After sample collection, the sample containers were placed in a cooler prior to transport to the laboratory. The soil samples were transported via courier to York Analytical Laboratories, Inc., (NELAP Certification Number 10854) for chemical analyses. Appropriate chain of custody procedures were followed.

2.3.2 Sample Identification

Sample identification included the monitoring well number and day of the event for the first round of sampling. Sample identification for the second confirmatory round of sampling included the number of the monitoring well followed by the number two (2), which signified the second round of sampling. The third number was the number of the day during the second sampling event on which the sampling occurred. The sample identification protocol used during the second round of sampling was approved by the USEPA in the Interim Groundwater Remediation Workplan.

2.3.3 Laboratory Analysis

All water samples were submitted to the laboratory and analyzed for the halogenated fraction of volatile organic compounds (VOCs) by USEPA Method 8260B. This method offers a detection limit of one $\mu\text{g/L}$ ($\mu\text{g/l}$). Any well samples exhibiting $> 5 \mu\text{g/l}$ tetrachloroethylene (PCE) were then re-sampled during a second confirmatory round of sampling on January 15, 16, and 18, 2001. All trip blanks, equipment blanks, and field blanks collected for quality assurance purposes were also analyzed using USEPA Method 8260B.

3.0 Laboratory Results and Data Summary

3.1 General Comments

Laboratory analysis of the latest sampling event indicates the overall reduction of PCE concentrations since the last series of sampling in 1992 in the majority of wells sampled. Although the preliminary data supports the conclusion that PCE concentrations have decreased, the lack of observable data from a continuous sampling regime makes a definitive assessment of spatial distinctions and temporal trends in PCE concentrations premature at this time.

Trip, field, and equipment blanks, as specified in the Workplan, were utilized during the course of sampling conducted in December 2000 and January 2001. Trip blanks were maintained each day for December 2000 sampling event. Trip, equipment, and field blanks were maintained daily for the January 2001 sampling event.

The Interim Groundwater Remediation Workplan specifies that 20 percent of the data package will be submitted to an independent validator for review and assembly of a Validation Report. This task was not accomplished, as York Analytical Laboratory experienced a weather-related power loss which caused the loss of data before it was archived. Thus the lab could not provide a fully deliverable data package for validation. At the request of the USEPA, ESI is prepared to re-sample specific wells to obtain verifiable data.

3.2 Discussion of Current (2000/2001) Data (see attached data tables)

For the purpose of organization and clarity, the reference and discussion of laboratory data is segregated into three distinct categories to more accurately classify the extent of PCE in groundwater obtained from selected wells. Groundwater samples are categorized as those with concentrations less than 50 ppb, those with concentrations between 50 ppb and 500 ppb, and those with concentrations greater than 500 ppb. All data are summarized in table form in Appendix B of this Report. A color-coded map depicting contaminant concentration distribution and direction of groundwater flow is included in Appendix A of this Report.

Concentrations of PCE less than 50 µg/l

No concentrations of PCE above minimum detection levels were detected in MW-1, MW-2, MW-7, MW-8, MW-10, and MW-12 during the December 2000 sampling event. These shallow wells are located upgradient from groundwater flow and document the absence of PCE in the northwestern perimeter at shallow depths. No confirmatory sampling was required for wells which exhibited less than 5 µg/l PCE concentration.

Low concentration of PCE was detected in MW-207. During the December sampling event, 2 µg/l of PCE were detected in MW-207. Because the level of PCE was below 5 µg/l, no confirmatory round of sampling was conducted for MW-207. MW-207 is a deep bedrock well located southwest and downgradient of the on-site building.

Low concentration of PCE was detected in MW-6. MW-6 was not discovered until the confirmatory round of sampling due to overgrowth and deep snow cover. Subsequently MW-6 was sampled, and groundwater was determined to contain 16 µg/l of PCE.

Low concentration of PCE was detected in MW-14 (6 µg/l) during the confirmatory round of sampling. During the initial round of sampling, the sample from this well had no detectable concentrations of PCE.

Concentrations of PCE Between 50 and 500 ppb

MW-13, located west and upgradient of the on-site building, exhibited a moderate (180 $\mu\text{g/l}$) PCE concentration during the December 2000 sampling event. The confirmatory sampling event indicated a PCE concentration of 140 $\mu\text{g/l}$.

Concentrations of PCE Greater than 500 ppb

The December 2000 and January 2001 sampling events indicate distinct general reductions in peak PCE concentrations and spatial reductions of PCE concentrations in impacted areas, including MW-3, MW-4, MW-5, MW-9, MW-16, MW-202, MW-203, and MW-204. Wells with elevated PCE concentrations are generally located south and downgradient of the General Switch building.

MW-202, located southwest and upgradient of the on-site building, exhibited 490 $\mu\text{g/l}$ of PCE during the December 2000 sampling event. The confirmatory sampling event indicated 730 $\mu\text{g/l}$ of PCE.

MW-16, located southeast and downgradient of the General Switch building, exhibited 7000 $\mu\text{g/l}$ of PCE during the December 2000 sampling event. Results from the confirmatory round of sampling document 6200 $\mu\text{g/l}$ of PCE.

MW-3, located southeast and downgradient of the General Switch building, exhibited a PCE concentration of 7300 $\mu\text{g/l}$ for the December 2000 sampling event. The confirmatory sampling event indicated 2900 $\mu\text{g/l}$ of PCE.

MW-4, located south and downgradient of the General Switch building, exhibited a PCE concentration of 15,000 $\mu\text{g/l}$ for the December 2000 sampling event. The confirmatory sampling event indicated a PCE concentration of 10,000 $\mu\text{g/l}$.

MW-203, located southeast and downgradient of the General Switch building, exhibited 6000 $\mu\text{g/l}$ of PCE for the December 2000 sampling event. The confirmatory sampling event indicated a PCE concentration of 3100 $\mu\text{g/l}$ of PCE.

MW-204, located southwest and downgradient of the General Switch building, exhibited 2400 $\mu\text{g/l}$ of PCE for the December 2000 sampling event. The confirmatory sampling event indicated a PCE concentration of 1600 $\mu\text{g/l}$ of PCE.

MW-9, located south and downgradient of the General Switch building, exhibited 1000 $\mu\text{g/l}$ of PCE for the December 2000 sampling event. The confirmatory sampling event indicated 470 $\mu\text{g/l}$ PCE.

MW-5, located south and downgradient of the General Switch building, exhibited 13000 $\mu\text{g/l}$ of PCE for the December 2000 sampling event. The confirmatory sampling event indicated 28000 $\mu\text{g/l}$ of PCE.

3.3 Comparison of 1992 Data With Current Data (see attached data tables)

MW-1 exhibited an extremely low concentration (2.2 $\mu\text{g/l}$) of PCE in September 1992. No detectable concentrations of PCE were identified during the December 2000 sampling round.

A concentration of 8 $\mu\text{g/l}$ of PCE was detected in MW-2 on October 2, 1992. PCE was non-detectable during the November 1992 sampling event and during the current December 2000 sampling round.

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MW-3 exhibited 8700 $\mu\text{g/l}$ and 2500 $\mu\text{g/l}$ of PCE for the September and October 1992 sampling events, respectively. MW-3 is located southwest and downgradient of the General Switch building. At the December 2000 sampling event, a concentration of 7300 $\mu\text{g/l}$ of PCE was detected. In January 2001 this concentration was 2900 $\mu\text{g/l}$ for PCE.

MW-4, located south and downgradient of the General Switch building, exhibited 20,000 $\mu\text{g/l}$ PCE concentration for the September 1992 sampling event. In October 1992 15,000 $\mu\text{g/l}$ of PCE was identified. Data from December 2000 and January 2001 indicate 15,000 $\mu\text{g/l}$ and 10,000 $\mu\text{g/l}$ of PCE, respectively.

MW-5, located south and downgradient of the General Switch building, exhibited 41,000 $\mu\text{g/l}$ of PCE in September 1992. Results from December 2000 and January 2001 sampling events indicated 13,000 $\mu\text{g/l}$ and 28,000 $\mu\text{g/l}$ of PCE, respectively.

MW-6, located south and downgradient of the General Switch building, exhibited 27 $\mu\text{g/l}$ of PCE in the September 1992 sampling event. Sampling results from January 2001 indicate a PCE concentration of 16 $\mu\text{g/l}$.

MW-7, located southwest and downgradient of the General Switch building, exhibited 10 $\mu\text{g/l}$ and 120 $\mu\text{g/l}$ of PCE on October 2, 1992. PCE was not detected in the sample from the December 2000 sampling event.

No previous sampling data from 1992 was available for MW-8. No detectable concentration of PCE was found in this upgradient well during the December 2000 sampling round.

No previous sampling data from 1992 was available for MW-9. Concentrations of 1,000 and 470 $\mu\text{g/l}$ of PCE were found during the December 2000 and January 2001 sampling rounds.

57 $\mu\text{g/l}$ of PCE were found in MW-10 in September 1992, and no detectable concentrations of PCE were found in this well in November 1992. Likewise, no PCE was detected during the current December 2000 round of sampling.

MW-12, located west and upgradient of the General Switch building, exhibited 140 $\mu\text{g/l}$ of PCE for the September 1992 sampling event. No PCE was detected in this well for the December 2000 sampling event.

MW-13, located west and upgradient of the General Switch building, exhibited 130 $\mu\text{g/l}$ of PCE in September of 1992 and 2900 $\mu\text{g/l}$ of PCE for the November 1992 sampling event. Results from the December 2000 and January 2001 sampling event indicate 180 $\mu\text{g/l}$ and 140 $\mu\text{g/l}$ of PCE, respectively for that well.

MW-14, located west and upgradient of the General Switch building, exhibited 12 $\mu\text{g/l}$ and 140 $\mu\text{g/l}$ of PCE for the September 1992 and November 1992 sampling events, respectively. No detectable concentrations of PCE were found in this well during the December 2000 sampling. MW-14 exhibited 6 $\mu\text{g/l}$ of PCE for the January 2001 sampling event.

MW-16, located southeast and downgradient of the General Switch building, exhibited 2400 $\mu\text{g/l}$ of PCE for the September 1992 sampling event. In MW-16, 7000 $\mu\text{g/l}$ and 6200 $\mu\text{g/l}$ of PCE were detected for the December 2000 and January 2001 sampling events, respectively.

MW-202, MW-203, MW-204, and MW-207 are deep bedrock wells extending through the characteristic bedrock on-site to depths greater than 100 feet bsg. Data from MW-202, MW-203, and MW-207 document PCE concentrations in the bedrock aquifer.

MW-202, located west and downgradient of the General Switch building, exhibited 4700 $\mu\text{g/l}$ and 240 $\mu\text{g/l}$ of PCE during the September 18 and 24, 1992 sampling events. In November 1992 a concentration of 9600 $\mu\text{g/l}$ of PCE was detected. MW-202 exhibited 490 $\mu\text{g/l}$ and 730 $\mu\text{g/l}$ of PCE for the December 2000 and January 2001 sampling events, respectively.

MW-203, located southwest and downgradient of the General Switch building, exhibited 13000 $\mu\text{g/l}$ and 1100 $\mu\text{g/l}$ of PCE for the September 1992 and November 1992 sampling events, respectively. MW-203 exhibited 6000 $\mu\text{g/l}$ and 3100 $\mu\text{g/l}$ of PCE for the December 2000 and January 2001 sampling events, respectively.

Data collected on October 9, 1992 documented the presence of 204.4 $\mu\text{g/l}$ of PCE in MW-204. On October 24, 1992, 1300 $\mu\text{g/l}$ of PCE were found. During the December 2000 and January 2001 sampling events concentrations of PCE of 2400 and 1600 $\mu\text{g/l}$, respectively, were documented.

MW-207, located south and downgradient of the General Switch building, exhibited a concentration of 390 $\mu\text{g/l}$ of PCE for the November 1992 sampling event. MW-207 exhibited 2 $\mu\text{g/l}$ of PCE for the December 2000 sampling event.

3.4 Discussion of PCE Breakdown Compounds Current and Previous

Laboratory analysis of groundwater samples obtained during the 1992 sampling events and the 2000/2001 sampling events indicate the presence of metabolite compounds typically associated with the bio-attenuation of PCE (e.g., trichloroethylene, dichloroethylene, and vinyl chloride). It is believed that as peak PCE concentrations decrease during natural dechlorinating processes, the levels of metabolite compounds will increase. Evidence for dechlorination is supported in data from MW-13, MW-202, and MW-204. Data from groundwater samples obtained from MW-13 exhibit no detectable levels of trichloroethylene in 1992. Data from samples obtained in December 2000 and January 2001 exhibit levels of 960 $\mu\text{g/l}$ and 610 $\mu\text{g/l}$, respectively. These data indicate an increase of metabolite compounds in the groundwater. Groundwater analyzed from MW-202 exhibited trichloroethylene (16 $\mu\text{g/l}$ and 300 $\mu\text{g/l}$) for the sampling events in 1992. The MW-202 exhibited increased levels of trichloroethylene (1800 $\mu\text{g/l}$ and 2500 $\mu\text{g/l}$) for the December 2000 and January 2001 sampling events. This data illustrates the increase in metabolite compounds. Data from groundwater samples collected from MW-204 exhibit 20 $\mu\text{g/l}$ trichloroethylene for the October 1992 sampling event. Data from groundwater samples collected during the December 2000 and January 2001 sampling events exhibit 16 $\mu\text{g/l}$ and 150 $\mu\text{g/l}$, respectively. These data also support the conclusion that metabolite concentrations increase as dechlorination proceeds via the process of bio-attenuation.

3.5 Groundwater Flow

Based on the depth to groundwater elevations, it has been determined that the current direction of shallow groundwater flow is in a southerly direction (see attached Direction of Groundwater Flow Map). No information concerning flow rate is provided in this Report.

4.0 Conclusions and Recommendations

This office has completed the services summarized in Section 2.0 for the property known as the General Switch Site located at the intersection of Highland Avenue and Industrial Place in the City of Middletown, Orange County, New York.

1. Laboratory data of groundwater samples indicate the presence of PCE in various concentrations exceeding 5 $\mu\text{g/l}$ in wells MW-2, MW-202, MW-6, MW-9, MW-13, MW-204, MW-203, MW-3, MW-4, MW-16, and MW-5. The second round of sampling confirms that elevated levels of PCE are present in these specific wells.
2. PCE concentrations in affected wells sampled during the winter 2000/2001 sampling event indicate an obvious decrease in contamination levels from the June/October 1992 sampling events. Data comparisons show a reduction in peak PCE concentrations as well as a reduction in the number of wells documenting high PCE concentrations. A significant amount of contaminated soil was removed from the northern and southern hot spot adjacent to the General Switch building; removal of this significant source of contamination may be directly responsible for the decrease in the size and concentration of the dissolved contamination.
3. The lateral extent of PCE (and metabolite compounds) appears to be lessening, and perimeter wells show acceptable levels of PCE. These findings support the conclusion that the current number and location of wells are generally sufficient to provide continued monitoring of groundwater quality.
4. High levels of PCE still exist and are concentrated in monitoring wells southeast of the General Switch building (in the immediate vicinity of the former "southern hot spot"). It is anticipated that the use of an active groundwater remedial system in this area would provide sufficient reduction in dissolved PCE concentrations in this portion of the Site. Natural attenuation is considered an appropriate remedial option for all other areas.
5. A comparison of data collected in 1992 with data obtained from groundwater samples collected in December and January 2000/2001 is not adequate or comprehensive enough to provide a long term groundwater profile. Although existing data show a reduction in PCE levels on and off the site, the number of sampling events and availability of confirmatory data provide no continuous and verifiable data to support the reduction.

The following recommendations are made, based on these findings:

1. It is recommended that the following shallow aquifer wells be sampled on a regular basis to document improvements in groundwater quality: MW-8 and MW-1 as upgradient wells; MW-13 and MW-10 as cross-gradient wells; MW-2, MW-7, MW-16, MW-3 and MW-5 as "hot spot" wells; and MW-9 and MW-6 as down-gradient wells. It is recommended that two (2) wells be installed in the vicinity of MW-11. MW-11 has not yielded enough recharge to provide sufficient sampling during repeated sampling events. The re-drilling of MW-11 and a proposed bedrock well (proposed MW-211) in this vicinity would provide cross-gradient sampling points east of the area of known groundwater contamination. No additional wells are recommended.

It is further recommended that these wells be sampled for chlorinated hydrocarbons (USEPA Method 8010 or comparable method) on a semi-annual basis (two times per calendar year) with the next sampling round to be instituted in the month of June 2001.

2. Additionally, the deep bedrock aquifer wells MW-202, MW-203, MW-204, and MW-207 should be sampled twice yearly during the scheduled sampling regimen.

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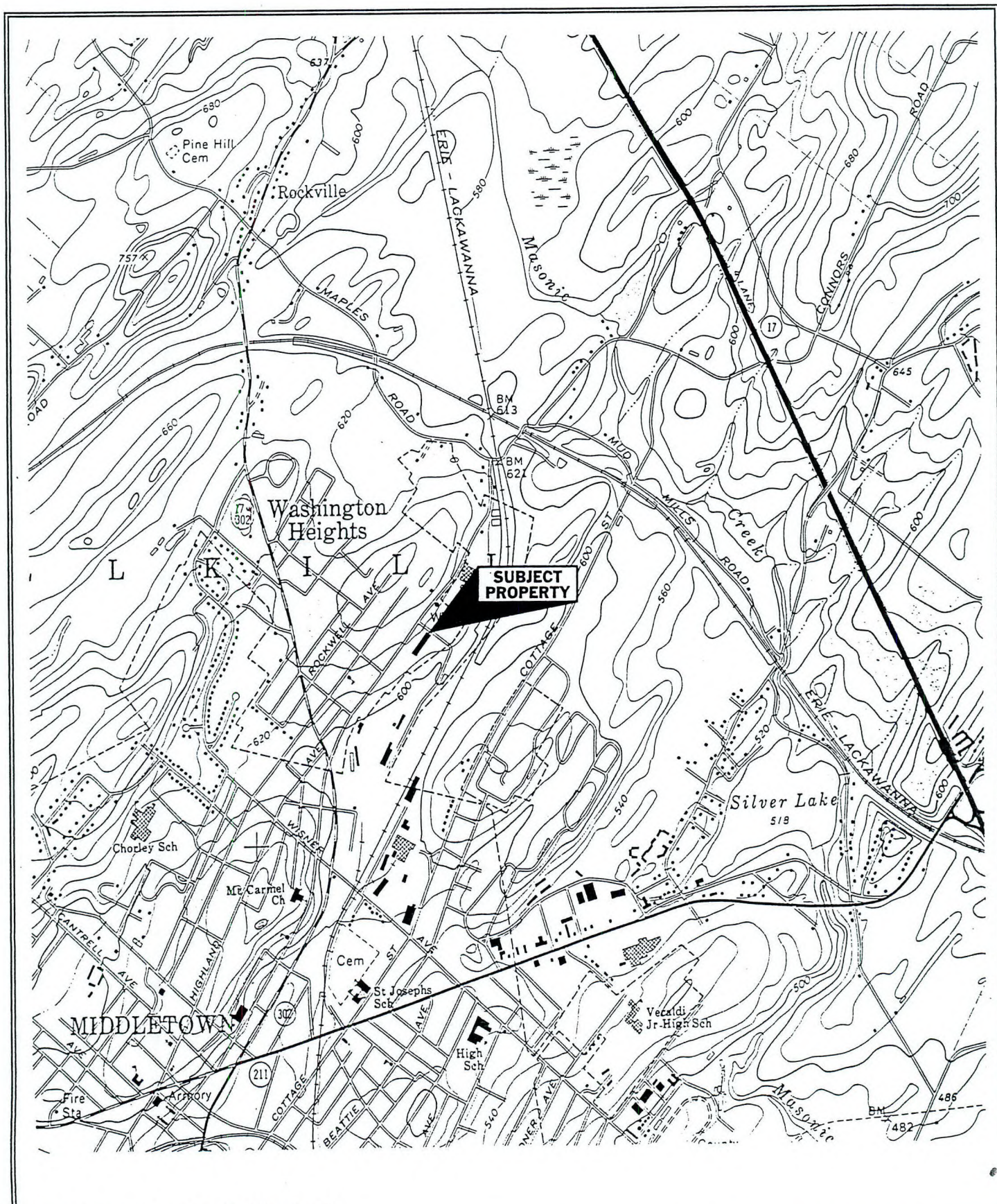
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3. It is recommended that active groundwater remediation be implemented with an extraction well in the immediate vicinity of MW-4 and MW-5. A detailed design of a groundwater remedial system should be submitted to the USEPA for review and approval, with implementation of this system to be scheduled within ninety days of USEPA design approval. This system should consist of a sufficient carbon filtration medium to permit re-introduction of treated groundwater into municipal sewer.

It is further recommended that the design objective of this system is to reduce on-site PCE concentrations in groundwater (as measured by laboratory data from the above-referenced wells) to levels no greater than 500 micrograms per liter for all wells for two consecutive sampling rounds.

APPENDIX A

Maps



Source: DeLorme Street Atlas USA, Version 6.0

Site Location Map

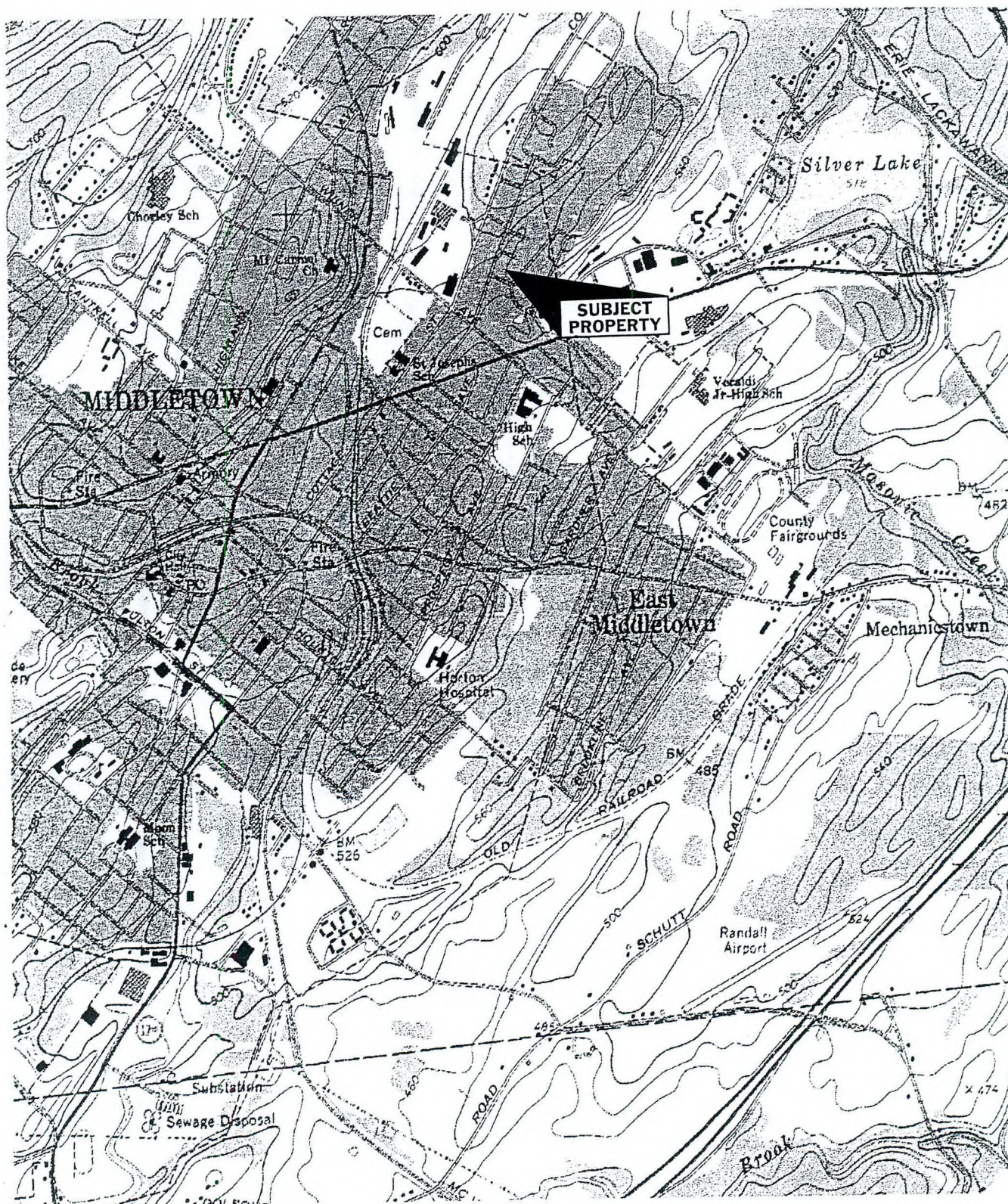
General Switch Site
City of Middletown
Orange County, New York



ESI File: LM97145.40

Date: April 2001

Appendix A



Source: U.S. Department of the Interior Geological Survey Topographic Map of the Middletown, New York Quadrangle, dated 1969 (photorevised 1976)

U.S.G.S. Topographic Map

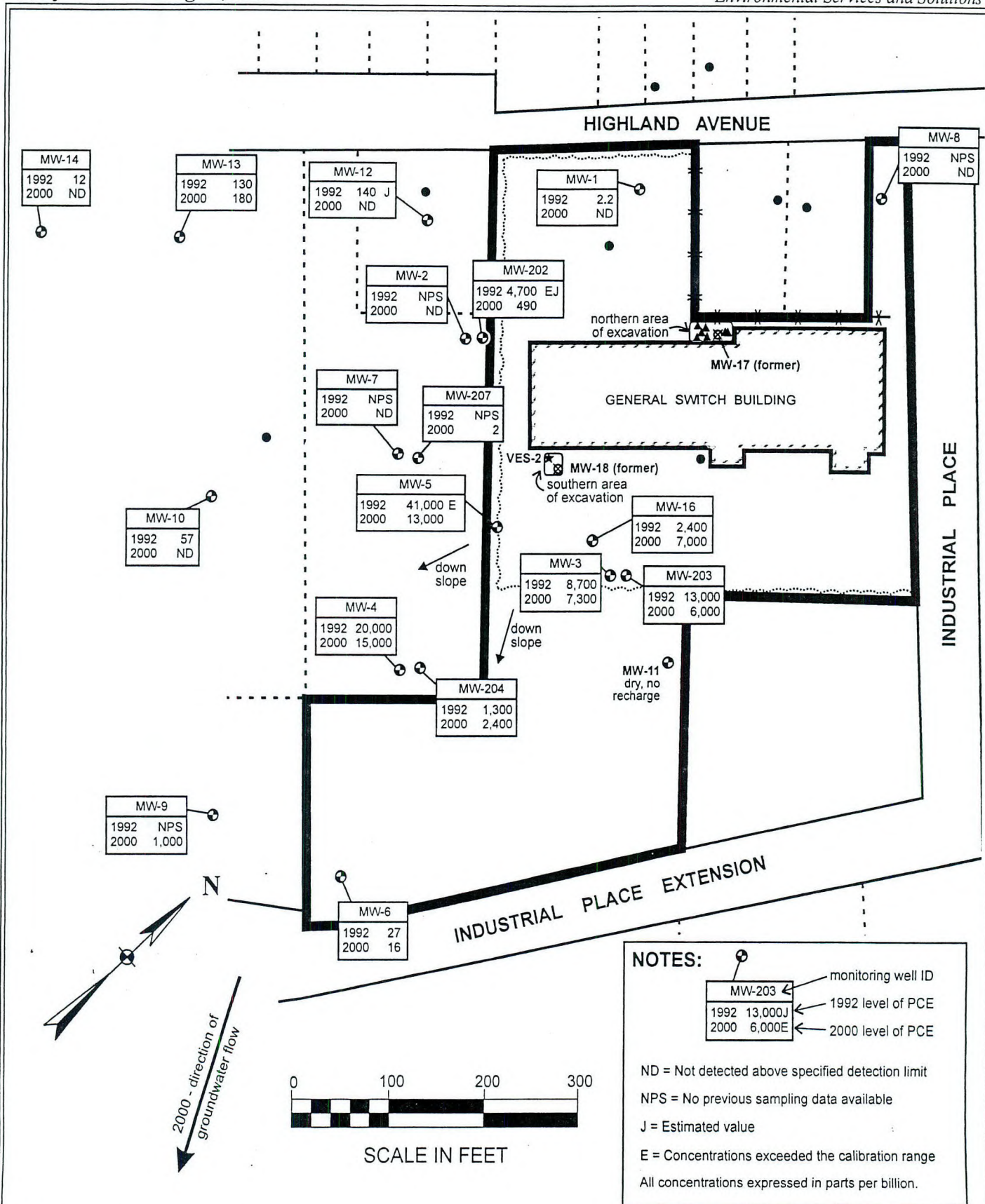
General Switch Property
20 Industrial Place
City of Middletown, Orange County, New York



ESI File: LM97145.40

Date: April 2001

Scale: 1:24000



All feature locations are approximate.

Map sources: Shakti Consultants, Inc. 1991 and Lawler, Matusky & Skelly Engineers, LLP, 1998.

**PCE Concentrations,
1992 and 2000**
General Switch Site
City of Middletown
Orange County, New York

Legend:

monitoring well (circle with dot)

other well (solid dot)

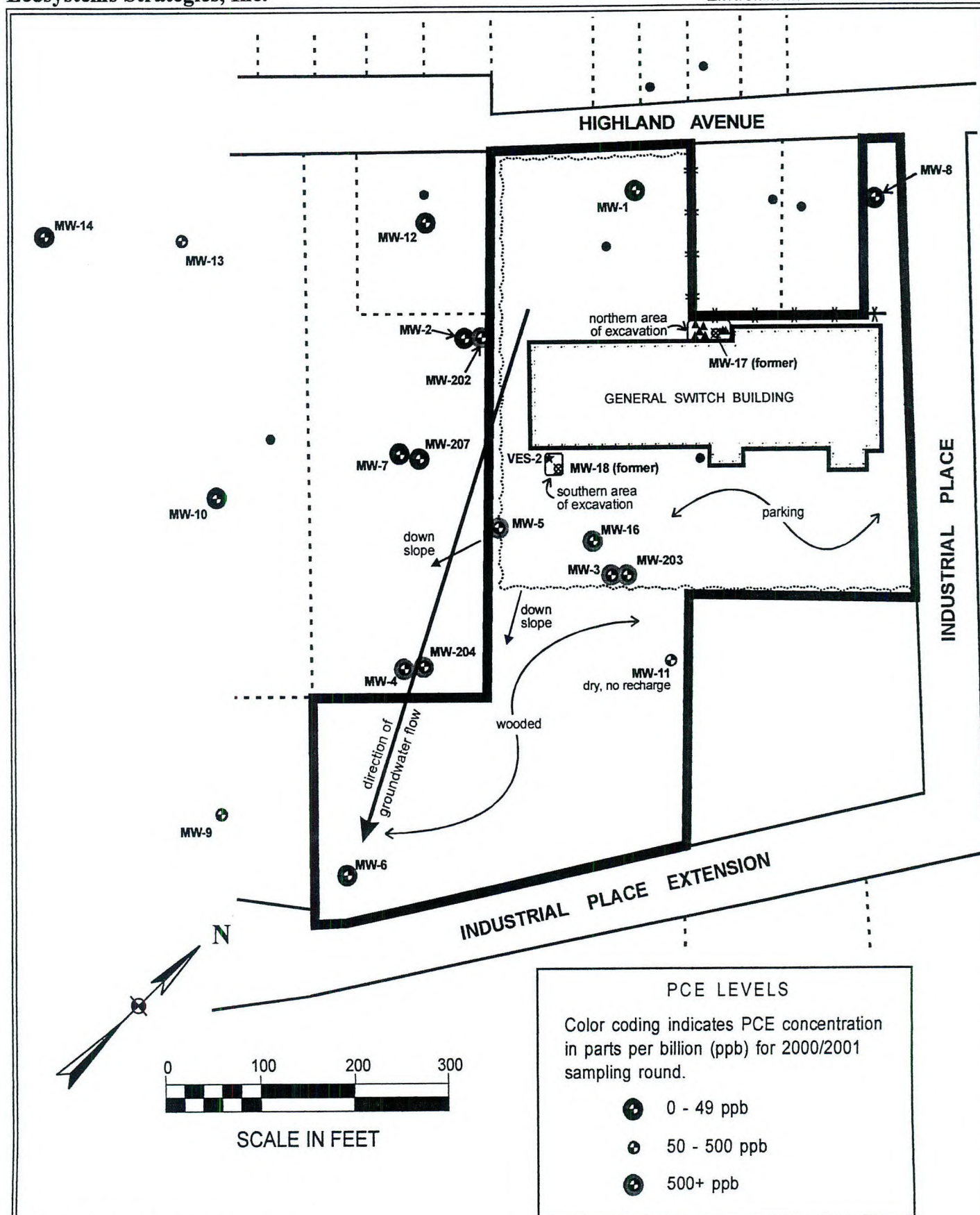
subject property border (thick line)

previous sample locations (star)

ESI File: LM97145.40

April 2001

Appendix A



All feature locations are approximate.

Map sources: Shakti Consultants, Inc. 1991 and Lawler, Matusky & Skelly Engineers, LLP, 1998.

Contaminant Distribution and Groundwater Flow Map

General Switch Site
City of Middletown
Orange County, New York

Legend:

- monitoring well
- other well
- subject property border
- previous sample locations

ESI File: LM97145.40

April 2001

Appendix A

APPENDIX B

Analytical Data Tables

Table 1: Summary of Detected VOCs for MW-1, MW-2, MW-3, and MW-4

Detected VOC Compounds	MW-1				MW-2				MW-3				MW-4			
	9/92	10/92	12/00	1/01	10/2/92	10/30/92	12/00	1/01	9/92	10/92	12/00	1/01	9/92	10/92	12/00	1/01
Acetone	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	NS	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	NS	86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethylene	ND	ND	ND	NS	ND	ND	ND	ND	880J	3J	3	2	ND	ND	ND	ND
1,2 Dichloroethylene (total)	ND	ND	ND	NS	ND	ND	ND	ND	ND	840E	14 (t), 12 (c)	2(t), 420 (c)	420J	ND	560 (cis)	150 (cis)
1,2 Dichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	NS	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.1	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	2.2	ND	ND	NS	8J	ND	ND	ND	8700	2500	7300	2900	20,000	15,000	15,000	10,000
Trichloroethylene	0.5	ND	ND	NS	5J	4.5	ND	ND	1000	1000E	820	550	210J	330J	310	120
Toluene	ND	ND	ND	NS	ND	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	11	5	4	ND	ND	ND	ND
1,2,4 Trimethylbenzene	ND	ND	ND	NS	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	2	1	ND	ND	ND	ND
o-xylene	ND	ND	ND	NS	ND	ND	90	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- and m-xylenes	ND	ND	ND	NS	ND	ND	81	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND

Not detected above specified detection limit

NS

No sample collected

J

Estimated value

E

Concentrations exceeded the calibration range

Detected VOC Compounds		MW-5				MW-6			MW-7				MW-8		
		6/92	9/92	12/00	1/01	9/92	12/00	1/01	10/2/92	10/30/92	12/00	1/01	No Previous Sampling Data Available	12/00	1/01
Acetone		ND	ND	ND	ND	ND	Well could not be located	ND	ND	ND	NS			ND	NS
sec-Butylbenzene		ND	ND	ND	ND	ND		ND	ND	ND	NS		ND	NS	
Carbon Disulfide		ND	ND	ND	ND	ND		ND	ND	ND	NS		ND	NS	
Chloroform		2J	ND	ND	ND	ND		ND	ND	ND	NS		ND	NS	
1,1 Dichloroethylene		ND	ND	ND	ND	ND		ND	ND	ND	NS		ND	NS	
1,2 Dichloroethylene (total)		ND	820J	350 (cis)	1,100 (cis)	39		ND	ND	ND	NS		ND	NS	
1,2 Dichloroethane		12	ND	ND	ND	ND		ND	ND	ND	NS		ND	NS	
Ethylbenzene		ND	ND	ND	ND	ND		ND	ND	ND	NS		ND	NS	
Methylene Chloride		ND	ND	ND	ND	ND		ND	ND	ND	NS		ND	NS	
Tetrachloroethylene		ND	41,000E	13,000	28,000	27		16	10	120	ND		NS	ND	NS
Trichloroethylene		ND	210J	220	300	10		3	ND	ND	ND		NS	ND	NS
Toluene		ND	ND	ND	ND	ND		ND	ND	ND	ND		NS	ND	NS
1,1,1 Trichloroethane		ND	ND	ND	ND	ND		ND	ND	ND	ND		NS	ND	NS
1,2,4 Trimethylbenzene		ND	ND	ND	ND	ND		ND	ND	ND	ND		NS	ND	NS
Vinyl chloride		ND	ND	ND	ND	ND		ND	ND	ND	ND		NS	ND	NS
o-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS		
p- and m-xylenes		ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS		

ND

Not detected above specified detection limit

NS

No sample collected

J

Estimated value

E

Concentrations exceeded the calibration range

Table 4: Summary of Detected VOCs for MW-13, MW-14, and MW-16

Detected VOC Compounds	MW-13				MW-14				MW-16		
	9/92	11/92	12/00	1/01	9/92	11/92	12/00	1/01	9/92	12/00	1/01
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	1J	ND	ND	ND	ND	ND	ND
Chloromethane	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethylene	ND	ND	22 (cis)	1	ND	ND	ND	ND	4J	ND	ND
1,2 Dichloroethylene (total)	ND	ND	ND	1 (t), 24 (c)	ND	ND	ND	ND	870E	580 (cis)	360 (cis)
1,2 Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	26J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	130	2900	180	140	12	140	ND	6	2400E	7000	6200
Trichloroethylene	ND	ND	960	610	ND	2	ND	2	960E	810	410
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1- Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	ND
1,2,4 Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	7J	ND	ND
o-xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- and m-xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND Not detected above specified detection limit

NS No sample collected

J Estimated value

E Concentrations exceeded the calibration range

Table 5: Summary of Detected VOCs for MW-202, MW-203, MW-204, and MW-207

Detected VOC Compounds	MW-202					MW-203				MW-204				MW-207		
	9/18/92	9/24/92	11/92	12/00	1/01	9/92	11/92	12/00	1/01	10/9/92	10/24/92	12/00	1/01	11/92	12/00	1/01
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1 Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	2	11.6	ND	ND	2	ND	ND	NS
1,2 Dichloroethylene (total)	ND	ND	ND	ND	440 (c), 29 (t)	1000	ND	450 (cis)	3 (t), 510 (c)	ND	ND	200 (cis)	180 (cis)	ND	ND	NS
1,2 Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.38	ND	ND	ND	ND	NS
Tetrachloroethylene	4700	240EJ	9600E	490	730	13000	1100	6000	3100	204.4E	1300EJ	2400	1600	390J	2	NS
Trichloroethylene	ND	16J	300	1800	2500	1200	ND	500	580	20	ND	160	150	ND	2	NS
Toluene	ND	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	NS
1,2,4 Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	1	ND	ND	NS
o-xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
p- and m-xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS

ND

NS

J

E

Not detected above specified detection limit

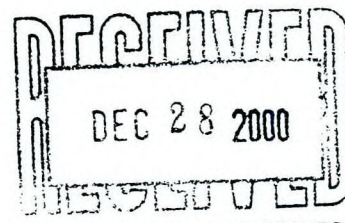
No sample collected

Estimated value

Concentrations exceeded the calibration range

APPENDIX C

Laboratory Data Packages



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 12/18/2000
Re: Client Project ID: LM97145.20
York Project No.: 00120277 R

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

Report Date: 12/18/2000
Client Project ID: LM97145.20

York Project No.: 00120277 R

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/13/00. The project was identified as your project "LM97145.20".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-1-1		MW-2-1	
York Sample ID			00120277-01		00120277-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	10
1,1,1-Trichloroethane			Not detected	1	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	10
1,1,2-Trichloroethane			Not detected	1	Not detected	10
1,1-Dichloroethane			Not detected	1	Not detected	10
1,1-Dichloroethylene			Not detected	1	Not detected	10
1,1-Dichloropropylene			Not detected	1	Not detected	10
1,2,3-Trichlorobenzene			Not detected	1	Not detected	10
1,2,3-Trichloropropane			Not detected	1	Not detected	10
1,2,3-Trimethylbenzene			Not detected	1	Not detected	10
1,2,4-Trichlorobenzene			Not detected	1	Not detected	10
1,2,4-Trimethylbenzene			Not detected	1	19	10
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	10
1,2-Dibromoethane			Not detected	1	Not detected	10
1,2-Dichlorobenzene			Not detected	1	Not detected	10
1,2-Dichloroethane			Not detected	1	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	10
1,2-Dichloropropane			Not detected	1	Not detected	10
1,3,5-Trimethylbenzene			Not detected	1	Not detected	10
1,3-Dichlorobenzene			Not detected	1	Not detected	10
1,3-Dichloropropane			Not detected	1	Not detected	10
1,4-Dichlorobenzene			Not detected	1	Not detected	10

YORK

Client Sample ID			MW-1-1		MW-2-1	
York Sample ID			00120277-01		00120277-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	1	Not detected	10
2,2-Dichloropropane			Not detected	1	Not detected	10
2-Chlorotoluene			Not detected	1	Not detected	10
4-Chlorotoluene			Not detected	1	Not detected	10
Benzene			Not detected	1	Not detected	10
Bromobenzene			Not detected	1	Not detected	10
Bromochloromethane			Not detected	1	Not detected	10
Bromodichloromethane			Not detected	1	Not detected	10
Bromoform			Not detected	1	Not detected	10
Bromomethane			Not detected	1	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	10
Chlorobenzene			Not detected	1	Not detected	10
Chloroethane			Not detected	1	Not detected	10
Chloroform			Not detected	1	Not detected	10
Chloromethane			Not detected	1	Not detected	10
cis-1,3-Dichloropropylene			Not detected	1	Not detected	10
Dibromochloromethane			Not detected	1	Not detected	10
Dibromomethane			Not detected	1	Not detected	10
Dichlorodifluoromethane			Not detected	1	Not detected	10
Ethylbenzene			Not detected	1	14	10
Hexachlorobutadiene			Not detected	1	Not detected	10
Isopropylbenzene			Not detected	1	Not detected	10
Methylene chloride			Not detected	1	Not detected	10
Naphthalene			Not detected	1	Not detected	10
n-Butylbenzene			Not detected	1	Not detected	10
n-Propylbenzene			Not detected	1	Not detected	10
o-Xylene			Not detected	1	90	10
p- & m-Xylenes			Not detected	1	81	10
p-Isopropyltoluene			Not detected	1	Not detected	10
sec-Butylbenzene			Not detected	1	19	10
Styrene			Not detected	1	Not detected	10
tert-Butylbenzene			Not detected	1	Not detected	10
Tetrachloroethylene			Not detected	1	Not detected	10
Toluene			Not detected	1	160	10
trans-1,3-Dichloropropylene			Not detected	1	Not detected	10
Trichloroethylene			Not detected	1	Not detected	10
Trichlorofluoromethane			Not detected	1	Not detected	10
Vinyl chloride			Not detected	1	Not detected	10
MTBE			---	---	Not detected	10

Client Sample ID			MW-7-1		Trip Blank-1	
York Sample ID			00120277-03		00120277-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-7-1		Trip Blank-1	
York Sample ID			00120277-03		00120277-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

YORK

Report Date: 12/18/2000
Client Project ID: LM97145.20

York Project No.: 00120277 R

Units Key:

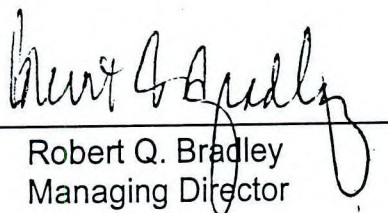
For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 12/18/2000

YORK

Field Chain-of-Custody Record

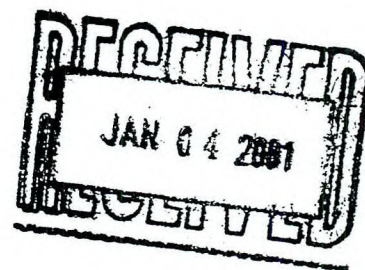
Company Name ECOSYSTEMS STRATEGIES INC	Report To: JONATHAN A. KAPLAN	Invoice To: PAM	Project ID/No. LM 97145.20	<u>Jonathan A. Kaplan</u> Samples Collected By (Signature) JONATHAN A. KAPLAN Name (Printed)
--	---	---------------------------	--------------------------------------	---

Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	MW-1-1	12/12/00	X				8260 B	2 - vials
	MW-2-1	12/12/00	X				8260 B	2 - vials
	MW-7-1	12/12/00	X				8260 B	2 - vials
	TRIP BLANK - 1	12/12/00	X				8260 B	2 - vials

Chain-of-Custody Record		<u>JAK</u> Sample Relinquished by Date/Time		<u>12/13/00 1:00 P</u> Date/Time		<u>Wayne</u> Sample Received by Date/Time		<u>12/13/00</u> Date/Time	
Bottles Relinquished from Lab by Date/Time		Bottles Received in Field by Date/Time		<u>Wayne</u> Sample Relinquished by Date/Time		<u>Wayne</u> Sample Received in LAB by Date/Time		<u>12/13/00</u> Date/Time	
Comments/Special Instructions						Turn-Around Time Standard RUSH(define)			

YORK

ANALYTICAL LABORATORIES, INC.



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan Kaplan

Report Date: 12/22/2000
Re: Client Project ID: LM97145.20
York Project No.: 00120384 R

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

Report Date: 12/22/2000
Client Project ID: LM97145.20

York Project No.: 00120384 R

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/18/00. The project was identified as your project "LM97145.20".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-8-2		MW-202-2	
York Sample ID			00120384-01		00120384-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	2	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	32(t)-280(c-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-8-2		MW-202-2	
York Sample ID			00120384-01		00120384-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	490	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	1800	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			MW207-2		MW12-2	
York Sample ID			00120384-03		00120384-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW207-2		MW12-2	
York Sample ID			00120384-03		00120384-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			2	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			2	1	5	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

YORK

Client Sample ID			Trip Blank-2	
York Sample ID			00120384-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,1-Dichloropropylene			Not detected	1
1,2,3-Trichlorobenzene			Not detected	1
1,2,3-Trichloropropane			Not detected	1
1,2,3-Trimethylbenzene			Not detected	1
1,2,4-Trichlorobenzene			Not detected	1
1,2,4-Trimethylbenzene			Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1
1,2-Dibromoethane			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1
1,2-Dichloropropane			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,3-Dichloropropane			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2,2-Dichloropropane			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1
Benzene			Not detected	1
Bromobenzene			Not detected	1
Bromochloromethane			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1
Bromomethane			Not detected	1
Carbon tetrachloride			Not detected	1
Chlorobenzene			Not detected	1
Chloroethane			Not detected	1
Chloroform			Not detected	1
Chloromethane			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Ethylbenzene			Not detected	1
Hexachlorobutadiene			Not detected	1
Isopropylbenzene			Not detected	1
Methylene chloride			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	1
p- & m-Xylenes			Not detected	1
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1

YORK

Client Sample ID			Trip Blank-2	
York Sample ID			00120384-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Styrene			Not detected	1
tert-Butylbenzene			Not detected	1
Tetrachloroethylene			Not detected	1
Toluene			Not detected	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			Not detected	1
Trichlorofluoromethane			Not detected	1
Vinyl chloride			Not detected	1

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____

Robert Q. Bradley
Managing Director

Date: 12/22/2000

YORK

YORK

ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE
STAMFORD, CT 06906

(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name ECOSYSTEMS STRATEGIES INC	Report To: JONATHAN KAPLAN	Invoice To: PAM	Project ID/No. LM47145.20	Samples Collected By (Signature) <i>Jonathan A Kaplan</i>
				Name (Printed) JONATHAN A KAPLAN

Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	MW-8-2	12/14/00	X				8260B	2 - VIALS
	MW-2-2 ⁽²⁰²⁾	12/14/00	X				8260B	2 - VIALS
	MW 207-2	12/14/00	X				8260B	2 - VIALS
	MW 12-2	12/14/00	X				8260B	2 - VIALS
	TRIP BLANK-2	12/14/00	X				8260B	2 - VIALS

Chain-of-Custody Record

Gueda Brito 12/18/00 1:10
Bottles Relinquished from Lab by Date/Time

Bottles Received in Field by Date/Time

Sample Relinquished by

Date/Time

Sample Relinquished by

Date/Time

Sample Received by

Date/Time

Sample Received in LAB by

Date/Time

Turn-Around Time

____ Standard ____ RUSH(define) _____

Comments/Special Instructions



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 12/27/2000
Re: Client Project ID: LM97145.0
York Project No.: 00120385

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

Report Date: 12/27/2000
Client Project ID: LM97145.0

York Project No.: 00120385

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/18/00. The project was identified as your project "LM97145.0".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-3-3		MW-16-3	
York Sample ID			00120385-01		00120385-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			5	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			3	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,3-Trimethylbenzene			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			14(t)-12(c-)	10	580(cis-)	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10

YORK

Client Sample ID			MW-3-3		MW-16-3	
York Sample ID			00120385-01		00120385-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			7300	10	7000	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			820	10	810	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			2	10	Not detected	10
Vinyl chloride						

Client Sample ID			MW-4-3		Trip Blank-3	
York Sample ID			00120385-03		00120385-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	50	Not detected	1
1,1,1-Trichloroethane			Not detected	50	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	50	Not detected	1
1,1,2-Trichloroethane			Not detected	50	Not detected	1
1,1-Dichloroethane			Not detected	50	Not detected	1
1,1-Dichloroethylene			Not detected	50	Not detected	1
1,1-Dichloropropylene			Not detected	50	Not detected	1
1,2,3-Trichlorobenzene			Not detected	50	Not detected	1

YORK

Client Sample ID			MW-4-3		Trip Blank-3	
York Sample ID			00120385-03		00120385-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	50	Not detected	1
1,2,3-Trimethylbenzene			Not detected	50	Not detected	1
1,2,4-Trichlorobenzene			Not detected	50	Not detected	1
1,2,4-Trimethylbenzene			Not detected	50	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	50	Not detected	1
1,2-Dibromoethane			Not detected	50	Not detected	1
1,2-Dichlorobenzene			Not detected	50	Not detected	1
1,2-Dichloroethane			Not detected	50	Not detected	1
1,2-Dichloroethylene (Total)			560(cis-)	50	Not detected	1
1,2-Dichloropropane			Not detected	50	Not detected	1
1,3,5-Trimethylbenzene			Not detected	50	Not detected	1
1,3-Dichlorobenzene			Not detected	50	Not detected	1
1,3-Dichloropropane			Not detected	50	Not detected	1
1,4-Dichlorobenzene			Not detected	50	Not detected	1
1-Chlorohexane			Not detected	50	Not detected	1
2,2-Dichloropropane			Not detected	50	Not detected	1
2-Chlorotoluene			Not detected	50	Not detected	1
4-Chlorotoluene			Not detected	50	Not detected	1
Benzene			Not detected	50	Not detected	1
Bromobenzene			Not detected	50	Not detected	1
Bromochloromethane			Not detected	50	Not detected	1
Bromodichloromethane			Not detected	50	Not detected	1
Bromoform			Not detected	50	Not detected	1
Bromomethane			Not detected	50	Not detected	1
Carbon tetrachloride			Not detected	50	Not detected	1
Chlorobenzene			Not detected	50	Not detected	1
Chloroethane			Not detected	50	Not detected	1
Chloroform			Not detected	50	Not detected	1
Chloromethane			Not detected	50	Not detected	1
cis-1,3-Dichloropropylene			Not detected	50	Not detected	1
Dibromochloromethane			Not detected	50	Not detected	1
Dibromomethane			Not detected	50	Not detected	1
Dichlorodifluoromethane			Not detected	50	Not detected	1
Ethylbenzene			Not detected	50	Not detected	1
Hexachlorobutadiene			Not detected	50	Not detected	1
Isopropylbenzene			Not detected	50	Not detected	1
Methylene chloride			Not detected	50	Not detected	1
Naphthalene			Not detected	50	Not detected	1
n-Butylbenzene			Not detected	50	Not detected	1
n-Propylbenzene			Not detected	50	Not detected	1
o-Xylene			Not detected	50	Not detected	1
p- & m-Xylenes			Not detected	50	Not detected	1
p-Isopropyltoluene			Not detected	50	Not detected	1
sec-Butylbenzene			Not detected	50	Not detected	1
Styrene			Not detected	50	Not detected	1
tert-Butylbenzene			Not detected	50	Not detected	1
Tetrachloroethylene			15000	50	Not detected	1
Toluene			Not detected	50	Not detected	1
trans-1,3-Dichloropropylene			Not detected	50	Not detected	1
Trichloroethylene			320	50	Not detected	1
Trichlorofluoromethane			Not detected	50	Not detected	1
Vinyl chloride			Not detected	50	Not detected	1

YORK

Report Date: 12/27/2000
Client Project ID: LM97145.0

York Project No.: 00120385

Units Key:

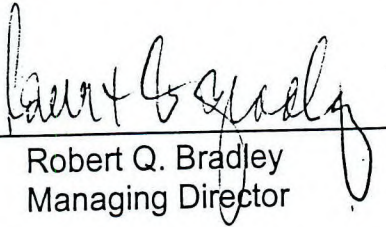
For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____


Robert Q. Bradley
Managing Director


Date: 12/27/2000

YORK

ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE
STAMFORD, CT 06906
25-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

<u>Company Name</u> ECOSYSTEM STRATEGIES INC		<u>Report To:</u> JONATHAN A. KAPLAN	<u>Invoice To:</u> PAM	<u>Project ID/No.</u> LM97145.0	<u>Samples Collected By (Signature)</u>  <u>Name (Printed)</u> JONATHAN A KAPLAN
		<u>Sample Matrix</u>			<u>Containers Requested</u>
					<u>Container</u>

[illegible]

Chain-of-Custody Record

1:10

12/18/00

Bottles Relinquished from Lab by

Date/Time

Bottles Received in Field by

Date/Time

Sample Relinquished by

Date/Time

Sample Relinquished by

Date/Time

Sample Received by

Sample Received in LAB by

12/18 100

Date/Time

12-18-00/1700

Date/Time

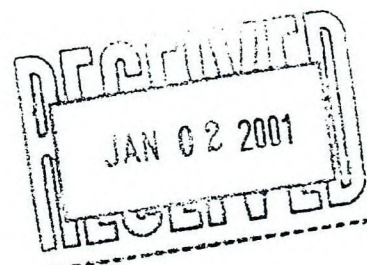
Turn-Around Time

Standard _____RUSH(define)

Comments/Special Instructions

YORK

ANALYTICAL LABORATORIES, INC.



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 12/28/2000
Re: Client Project ID: LM97145.0
York Project No.: 00120426

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE RESEARCH DRIVE

STAMFORD, CT 06906

(203) 325-1371

FAX (203) 357-0166

Report Date: 12/28/2000
Client Project ID: LM97145.0

York Project No.: 00120426

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/20/00. The project was identified as your project "LM97145.0".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-204-4		MW-9-4	
York Sample ID			00120426-01		00120426-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,3-Trimethylbenzene			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			200(cis-)	10	120(cis-)	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10

YORK

Client Sample ID			MW-204-4		MW-9-4	
York Sample ID			00120426-01		00120426-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			2400	10	1000	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			160	10	85	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10

Client Sample ID			MW-203-4		Trip Blank-4	
York Sample ID			00120426-03		00120426-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	1
1,1,1-Trichloroethane			Not detected	10	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	1
1,1,2-Trichloroethane			Not detected	10	Not detected	1
1,1-Dichloroethane			Not detected	10	Not detected	1
1,1-Dichloroethylene			Not detected	10	Not detected	1
1,1-Dichloropropylene			Not detected	10	Not detected	1
1,2,3-Trichlorobenzene			Not detected	10	Not detected	1

YORK

Client Sample ID			MW-203-4		Trip Blank-4	
York Sample ID			00120426-03		00120426-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	10	Not detected	1
1,2,3-Trimethylbenzene			Not detected	10	Not detected	1
1,2,4-Trichlorobenzene			Not detected	10	Not detected	1
1,2,4-Trimethylbenzene			Not detected	10	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	1
1,2-Dibromoethane			Not detected	10	Not detected	1
1,2-Dichlorobenzene			Not detected	10	Not detected	1
1,2-Dichloroethane			Not detected	10	Not detected	1
1,2-Dichloroethylene (Total)			450(cis-)	10	Not detected	1
1,2-Dichloropropane			Not detected	10	Not detected	1
1,3,5-Trimethylbenzene			Not detected	10	Not detected	1
1,3-Dichlorobenzene			Not detected	10	Not detected	1
1,3-Dichloropropane			Not detected	10	Not detected	1
1,4-Dichlorobenzene			Not detected	10	Not detected	1
1-Chlorohexane			Not detected	10	Not detected	1
2,2-Dichloropropane			Not detected	10	Not detected	1
2-Chlorotoluene			Not detected	10	Not detected	1
4-Chlorotoluene			Not detected	10	Not detected	1
Benzene			Not detected	10	Not detected	1
Bromobenzene			Not detected	10	Not detected	1
Bromochloromethane			Not detected	10	Not detected	1
Bromodichloromethane			Not detected	10	Not detected	1
Bromoform			Not detected	10	Not detected	1
Bromomethane			Not detected	10	Not detected	1
Carbon tetrachloride			Not detected	10	Not detected	1
Chlorobenzene			Not detected	10	Not detected	1
Chloroethane			Not detected	10	Not detected	1
Chloroform			Not detected	10	Not detected	1
Chloromethane			Not detected	10	Not detected	1
cis-1,3-Dichloropropylene			Not detected	10	Not detected	1
Dibromochloromethane			Not detected	10	Not detected	1
Dibromomethane			Not detected	10	Not detected	1
Dichlorodifluoromethane			Not detected	10	Not detected	1
Ethylbenzene			Not detected	10	Not detected	1
Hexachlorobutadiene			Not detected	10	Not detected	1
Isopropylbenzene			Not detected	10	Not detected	1
Methylene chloride			Not detected	10	Not detected	1
Naphthalene			Not detected	10	Not detected	1
n-Butylbenzene			Not detected	10	Not detected	1
n-Propylbenzene			Not detected	10	Not detected	1
o-Xylene			Not detected	10	Not detected	1
p- & m-Xylenes			Not detected	10	Not detected	1
p-Isopropyltoluene			Not detected	10	Not detected	1
sec-Butylbenzene			Not detected	10	Not detected	1
Styrene			Not detected	10	Not detected	1
tert-Butylbenzene			Not detected	10	Not detected	1
Tetrachloroethylene			6000	10	Not detected	1
Toluene			Not detected	10	Not detected	1
trans-1,3-Dichloropropylene			Not detected	10	Not detected	1
Trichloroethylene			500	10	Not detected	1
Trichlorofluoromethane			Not detected	10	Not detected	1
Vinyl chloride			Not detected	10	Not detected	1

YORK

Report Date: 12/28/2000
Client Project ID: LM97145.0

York Project No.: 00120426

Units Key:

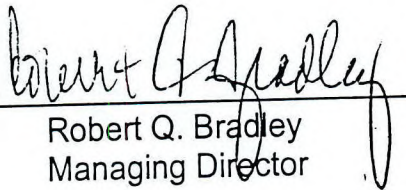
For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 12/28/2000

YORK

YORK

ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166**Field Chain-of-Custody Record**

Company Name ECOSYSTEMS STRATEGIES INC	Report To: JONATHAN A. KAPLAN	Invoice To: PAM	Project ID/No. LM97145.0	Samples Collected By (Signature) <i>Jonathan A. Kaplan</i> Name (Printed) JONATHAN A KAPLAN
--	--	---------------------------	------------------------------------	--

Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	MW-204-4	12/18/00	X				8260 B	2 - VIALS
	MW-9-4	12/18/00	X				8260 B	2 - VIALS
	MW-203-4	12/18/00	X				8260 B	2 - VIALS
	TRIP BLANK - 4	12/18/00	X				8260 B	2 - VIALS

Chain-of-Custody Record

Bottles Relinquished from Lab by _____	Date/Time _____	<i>Jonathan A. Kaplan</i> Sample Relinquished by _____	12/20 12:15 ^P Date/Time _____	<i>Wayne</i> Sample Received by _____	12/20 12:15 Date/Time _____
Bottles Received in Field by _____	Date/Time _____	Sample Relinquished by _____	Date/Time _____	<i>Jim Disla</i> Sample Received in LAB by _____	12/20 1700 Date/Time _____
Comments/Special Instructions				Turn-Around Time	
				X Standard _____ RUSH(define) _____	

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 12/29/2000
Re: Client Project ID: LM97145.0
York Project No.: 00120427 R

CT License No. PH-0723 New York License No. 10854 Mass License No. M-CT106 Rhode Island License No. 93 EPA ID. No. CT00106

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 12/29/2000
Client Project ID: LM97145.0

York Project No.: 00120427 R

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kapan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/20/00. The project was identified as your project "LM97145.0".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-10-5		MW-5-5	
York Sample ID			00120427-01		00120427-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	10
1,1,1-Trichloroethane			Not detected	1	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	10
1,1,2-Trichloroethane			Not detected	1	Not detected	10
1,1-Dichloroethane			Not detected	1	Not detected	10
1,1-Dichloroethylene			Not detected	1	Not detected	10
1,1-Dichloropropylene			Not detected	1	Not detected	10
1,2,3-Trichlorobenzene			Not detected	1	Not detected	10
1,2,3-Trichloropropane			Not detected	1	Not detected	10
1,2,3-Trimethylbenzene			Not detected	1	Not detected	10
1,2,4-Trichlorobenzene			Not detected	1	Not detected	10
1,2,4-Trimethylbenzene			Not detected	1	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	10
1,2-Dibromoethane			Not detected	1	Not detected	10
1,2-Dichlorobenzene			Not detected	1	Not detected	10
1,2-Dichloroethane			Not detected	1	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	1	350(cis-)	10
1,2-Dichloropropane			Not detected	1	Not detected	10
1,3,5-Trimethylbenzene			Not detected	1	Not detected	10
1,3-Dichlorobenzene			Not detected	1	Not detected	10
1,3-Dichloropropane			Not detected	1	Not detected	10
1,4-Dichlorobenzene			Not detected	1	Not detected	10

YORK

Client Sample ID			MW-10-5		MW-5-5	
York Sample ID			00120427-01		00120427-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	1	Not detected	10
2,2-Dichloropropane			Not detected	1	Not detected	10
2-Chlorotoluene			Not detected	1	Not detected	10
4-Chlorotoluene			Not detected	1	Not detected	10
Benzene			Not detected	1	Not detected	10
Bromobenzene			Not detected	1	Not detected	10
Bromochloromethane			Not detected	1	Not detected	10
Bromodichloromethane			Not detected	1	Not detected	10
Bromoform			Not detected	1	Not detected	10
Bromomethane			Not detected	1	Not detected	10
Carbon tetrachloride			Not detected	1	Not detected	10
Chlorobenzene			Not detected	1	Not detected	10
Chloroethane			Not detected	1	Not detected	10
Chloroform			Not detected	1	Not detected	10
Chloromethane			Not detected	1	Not detected	10
cis-1,3-Dichloropropylene			Not detected	1	Not detected	10
Dibromochloromethane			Not detected	1	Not detected	10
Dibromomethane			Not detected	1	Not detected	10
Dichlorodifluoromethane			Not detected	1	Not detected	10
Ethylbenzene			Not detected	1	Not detected	10
Hexachlorobutadiene			Not detected	1	Not detected	10
Isopropylbenzene			Not detected	1	Not detected	10
Methylene chloride			Not detected	1	Not detected	10
Naphthalene			Not detected	1	Not detected	10
n-Butylbenzene			Not detected	1	Not detected	10
n-Propylbenzene			Not detected	1	Not detected	10
o-Xylene			Not detected	1	Not detected	10
p- & m-Xylenes			Not detected	1	Not detected	10
p-Isopropyltoluene			Not detected	1	Not detected	10
sec-Butylbenzene			Not detected	1	Not detected	10
Styrene			Not detected	1	Not detected	10
tert-Butylbenzene			Not detected	1	Not detected	10
Tetrachloroethylene			Not detected	1	13000	10
Toluene			Not detected	1	Not detected	10
trans-1,3-Dichloropropylene			Not detected	1	Not detected	10
Trichloroethylene			Not detected	1	220	10
Trichlorofluoromethane			Not detected	1	Not detected	10
Vinyl chloride			Not detected	1	Not detected	10

Client Sample ID			MW-14-5		MW-13-5	
York Sample ID			00120427-03		00120427-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-14-5		MW-13-5	
York Sample ID			00120427-03		00120427-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	22(cis-)	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	180	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	960	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

YORK

Client Sample ID			Trip Blank-5	
York Sample ID			00120427-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8260 list water	SW846-8250	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,1-Dichloropropylene			Not detected	1
1,2,3-Trichlorobenzene			Not detected	1
1,2,3-Trichloropropane			Not detected	1
1,2,3-Trimethylbenzene			Not detected	1
1,2,4-Trichlorobenzene			Not detected	1
1,2,4-Trimethylbenzene			Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1
1,2-Dibromoethane			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1
1,2-Dichloropropane			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,3-Dichloropropane			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2,2-Dichloropropane			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1
Benzene			Not detected	1
Bromobenzene			Not detected	1
Bromochloromethane			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1
Bromomethane			Not detected	1
Carbon tetrachloride			Not detected	1
Chlorobenzene			Not detected	1
Chloroethane			Not detected	1
Chloroform			Not detected	1
Chloromethane			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Ethylbenzene			Not detected	1
Hexachlorobutadiene			Not detected	1
Isopropylbenzene			Not detected	1
Methylene chloride			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	1
p- & m-Xylenes			Not detected	1
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1

YORK

Client Sample ID			Trip Blank-5	
York Sample ID			00120427-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Styrene			Not detected	1
tert-Butylbenzene			Not detected	1
Tetrachloroethylene			Not detected	1
Toluene			Not detected	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			Not detected	1
Trichlorofluoromethane			Not detected	1
Vinyl chloride			Not detected	1

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____

Robert Q. Bradley
Managing Director

Date: 12/29/2000

YORK

YORK

ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE

STAMFORD, CT 06906

(203) 325-1371 FAX (203) 357-0166

00120427

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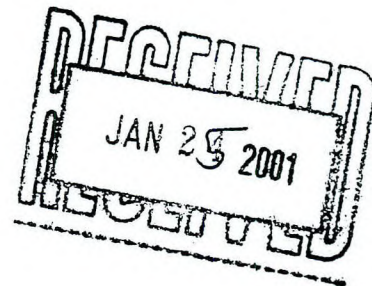
Field Chain-of-Custody Record

Company Name ECOSYSTEM STRATEGIES INC		Report To: JONATHAN A. KAPLAN		Invoice To: PAM		Project ID/No. LM97145.0		<div style="border-bottom: 1px solid black; padding-bottom: 2px;"> <i>Jonathan A. Kaplan</i> Samples Collected By (Signature) </div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;"> JONATHAN A KAPLAN Name (Printed) </div>	
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Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	MW-10-5	12/19/00	X				8260 B	2 - VIALS
	MW-10-5 ^{UNKNOWN} SUBSTANCE	12/19/00	X				8260 B	1 - VIAL
	MW-5-5	12/19/00	X				8260 B	2 - VIALS
	MW-14-5	12/19/00	X				8260 B	2 - VIALS
	MW-13-5	12/19/00	X				8260 B	2 - VIALS
	TRIP BLANK -5	12/19/00	X				8260 B	2 - VIALS

Chain-of-Custody Record <div style="display: flex; justify-content: space-between;"> Bottles Relinquished from Lab by Date/Time </div> <div style="display: flex; justify-content: space-between;"> Bottles Received in Field by Date/Time </div>		<div style="display: flex; justify-content: space-between;"> <i>Jonathan A. Kaplan</i> 12/20/ 12:15P </div> <div style="display: flex; justify-content: space-between;"> Sample Relinquished by Date/Time </div> <div style="display: flex; justify-content: space-between;"> <i>W. Wayne</i> 12/20 12:15 </div> <div style="display: flex; justify-content: space-between;"> Sample Received by Date/Time </div> <div style="display: flex; justify-content: space-between;"> <i>Wm. D. Duda</i> 12/20 1700 </div> <div style="display: flex; justify-content: space-between;"> Sample Received in LAB by Date/Time </div>		Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH(define) _____	
Comments/Special Instructions					

YORK
ANALYTICAL LABORATORIES, INC.



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonothan Kaplan

Report Date: 1/23/2001
Re: Client Project ID: LM97145
York Project No.: 01010281

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

Report Date: 1/23/2001
Client Project ID: LM97145

York Project No.: 01010281

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonothan Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 01/16/01. The project was identified as your project "LM97145".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-202-2-1		MW-9-2-1	
York Sample ID			01010281-01		01010281-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	1
1,1,1-Trichloroethane			Not detected	10	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	1
1,1,2-Trichloroethane			Not detected	10	Not detected	1
1,1-Dichloroethane			Not detected	10	Not detected	1
1,1-Dichloroethylene			Not detected	10	Not detected	1
1,1-Dichloropropylene			Not detected	10	Not detected	1
1,2,3-Trichlorobenzene			Not detected	10	Not detected	1
1,2,3-Trichloropropane			Not detected	10	Not detected	1
1,2,3-Trimethylbenzene			Not detected	10	Not detected	1
1,2,4-Trichlorobenzene			Not detected	10	Not detected	1
1,2,4-Trimethylbenzene			Not detected	10	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	1
1,2-Dibromoethane			Not detected	10	Not detected	1
1,2-Dichlorobenzene			Not detected	10	Not detected	1
1,2-Dichloroethane			Not detected	10	Not detected	1
1,2-Dichloroethylene (Total)			440(c-)29(t-) ✓	10	320(c-)2(t-) ✓	1
1,2-Dichloropropane			Not detected	10	Not detected	1
1,3,5-Trimethylbenzene			Not detected	10	Not detected	1
1,3-Dichlorobenzene			Not detected	10	Not detected	1
1,3-Dichloropropane			Not detected	10	Not detected	1
1,4-Dichlorobenzene			Not detected	10	Not detected	1

YORK

Client Sample ID			MW-202-2-1		MW-9-2-1	
York Sample ID			01010281-01		01010281-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	10	Not detected	1
2,2-Dichloropropane			Not detected	10	Not detected	1
2-Chlorotoluene			Not detected	10	Not detected	1
4-Chlorotoluene			Not detected	10	Not detected	1
Benzene			Not detected	10	Not detected	1
Bromobenzene			Not detected	10	Not detected	1
Bromochloromethane			Not detected	10	Not detected	1
Bromodichloromethane			Not detected	10	Not detected	1
Bromoform			Not detected	10	Not detected	1
Bromomethane			Not detected	10	Not detected	1
Carbon tetrachloride			Not detected	10	Not detected	1
Chlorobenzene			Not detected	10	Not detected	1
Chloroethane			Not detected	10	Not detected	1
Chloroform			Not detected	10	Not detected	1
Chloromethane			Not detected	10	Not detected	1
cis-1,3-Dichloropropylene			Not detected	10	Not detected	1
Dibromochloromethane			Not detected	10	Not detected	1
Dibromomethane			Not detected	10	Not detected	1
Dichlorodifluoromethane			Not detected	10	Not detected	1
Ethylbenzene			Not detected	10	Not detected	1
Hexachlorobutadiene			Not detected	10	Not detected	1
Isopropylbenzene			Not detected	10	Not detected	1
Methylene chloride			Not detected	10	Not detected	1
Naphthalene			Not detected	10	Not detected	1
n-Butylbenzene			Not detected	10	Not detected	1
n-Propylbenzene			Not detected	10	Not detected	1
o-Xylene			Not detected	10	Not detected	1
p- & m-Xylenes			Not detected	10	Not detected	1
p-Isopropyltoluene			Not detected	10	Not detected	1
sec-Butylbenzene			Not detected	10	Not detected	1
Styrene			Not detected	10	Not detected	1
tert-Butylbenzene			Not detected	10	Not detected	1
Tetrachloroethylene			730 ✓	10	470 ✓	1
Toluene			Not detected	10	Not detected	1
trans-1,3-Dichloropropylene			Not detected	10	Not detected	1
Trichloroethylene			2500 ✓	10	100 ✓	1
Trichlorofluoromethane			Not detected	10	Not detected	1
Vinyl chloride			Not detected	10	Not detected	1

Client Sample ID			MW-2-2-1		MW-6-2-1	
York Sample ID			01010281-03		01010281-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-2-2-1		MW-6-2-1	
York Sample ID			01010281-03		01010281-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	16 ✓	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	3 ✓	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

YORK

Client Sample ID			Trip Blank 2-1	
York Sample ID			01010281-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,1-Dichloropropylene			Not detected	1
1,2,3-Trichlorobenzene			Not detected	1
1,2,3-Trichloropropane			Not detected	1
1,2,3-Trimethylbenzene			Not detected	1
1,2,4-Trichlorobenzene			Not detected	1
1,2,4-Trimethylbenzene			Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1
1,2-Dibromoethane			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1
1,2-Dichloropropane			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,3-Dichloropropane			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2,2-Dichloropropane			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1
Benzene			Not detected	1
Bromobenzene			Not detected	1
Bromochloromethane			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1
Bromomethane			Not detected	1
Carbon tetrachloride			Not detected	1
Chlorobenzene			Not detected	1
Chloroethane			Not detected	1
Chloroform			Not detected	1
Chloromethane			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Ethylbenzene			Not detected	1
Hexachlorobutadiene			Not detected	1
Isopropylbenzene			Not detected	1
Methylene chloride			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	1
p- & m-Xylenes			Not detected	1
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1

YORK

Client Sample ID			Trip Blank 2-1	
York Sample ID			01010281-05	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Styrene			Not detected	1
tert-Butylbenzene			Not detected	1
Tetrachloroethylene			Not detected	1
Toluene			Not detected	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			Not detected	1
Trichlorofluoromethane			Not detected	1
Vinyl chloride			Not detected	1

Units Key:

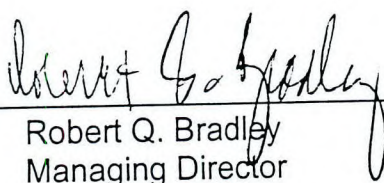
For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 1/23/2001

YORK

YORK

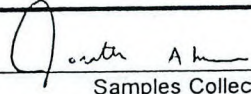
ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE

STAMFORD, CT 06906

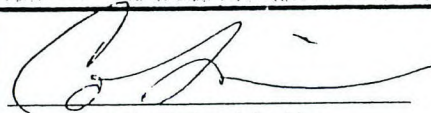
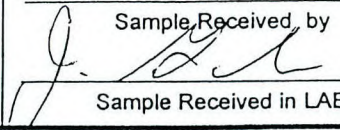
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody RecordPage 1 of 1

<u>Company Name</u> ECOSYSTEMS STRATEGIES INC	<u>Report To:</u> JONATHAN KAPLAN	<u>Invoice To:</u> PAM	<u>Project ID/No.</u> LM47145	<u>Samples Collected By (Signature)</u>  <u>JOHATHAN A KAPLAN</u> Name (Printed)
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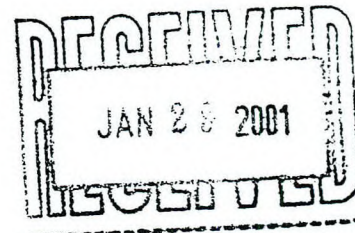
Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	MW-202-2-1	1/15/01	X				8260	2 - VIALS
	MW-9-2-1	1/15/01	X				8260	2 - VIALS
	MW-2-2-1	1/15/01	X				8260	2 - VIALS
	MW-6-2-1	1/15/01	X				8260	2 - VIALS
	TRIP BLANK 2-1	1/15/01	X				8260	2 - VIALS

Chain-of-Custody Record

<u>Bottles Relinquished from Lab by</u>	<u>Date/Time</u>	<u>Sample Relinquished by</u> 	<u>Date/Time</u> 9:45 am 1-16-01	<u>Sample Received by</u> 	<u>Date/Time</u> 9:45 am 1-16-01
<u>Bottles Received in Field by</u>	<u>Date/Time</u>	<u>Sample Relinquished by</u>	<u>Date/Time</u>	<u>Sample Received in LAB by</u>	<u>Date/Time</u> 1-16-01/1400

Comments/Special Instructions**Turn-Around Time**

___ Standard ___ RUSH(define)___



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 1/25/2001
Re: Client Project ID: LM97145.40
York Project No.: 01010319

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

Report Date: 1/25/2001
Client Project ID: LM97145.40

York Project No.: 01010319

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 01/17/01. The project was identified as your project "LM97145.40".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-204-2-2		MW-3-2-2	
York Sample ID			01010319-01		01010319-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	4	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			2	1	2	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			180(cis-)	1	2(t-)420(c-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-204-2-2		MW-3-2-2	
York Sample ID			01010319-01		01010319-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			1600	1	2900	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			150	1	550	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			1	1	1	1

Client Sample ID			MW-203-2-2		MW-13-2-2	
York Sample ID			01010319-03		01010319-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			4	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			2	1	1	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-203-2-2		MW-13-2-2	
York Sample ID			01010319-03		01010319-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			3(t-)510(c-)	1	1(t-)24(c-)	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			3100	1	140	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			580	1	610	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			1	1	Not detected	1

YORK

Client Sample ID			Field Blank 2-2		Equipment Blank 2-2	
York Sample ID			01010319-05		01010319-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	1	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	1	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			Field Blank 2-2		Equipment Blank 2-2	
York Sample ID			01010319-05		01010319-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			18	1	13	1
Toluene			1	1	1	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			1	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			Trip Blank 2-2	
York Sample ID			01010319-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	1
1,1,1-Trichloroethane			Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1
1,1,2-Trichloroethane			Not detected	1
1,1-Dichloroethane			Not detected	1
1,1-Dichloroethylene			Not detected	1
1,1-Dichloropropylene			Not detected	1
1,2,3-Trichlorobenzene			Not detected	1
1,2,3-Trichloropropane			Not detected	1
1,2,3-Trimethylbenzene			Not detected	1
1,2,4-Trichlorobenzene			Not detected	1
1,2,4-Trimethylbenzene			Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1
1,2-Dibromoethane			Not detected	1
1,2-Dichlorobenzene			Not detected	1
1,2-Dichloroethane			Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1
1,2-Dichloropropane			Not detected	1
1,3,5-Trimethylbenzene			Not detected	1
1,3-Dichlorobenzene			Not detected	1
1,3-Dichloropropane			Not detected	1
1,4-Dichlorobenzene			Not detected	1
1-Chlorohexane			Not detected	1
2,2-Dichloropropane			Not detected	1
2-Chlorotoluene			Not detected	1
4-Chlorotoluene			Not detected	1
Benzene			Not detected	1
Bromobenzene			Not detected	1
Bromochloromethane			Not detected	1
Bromodichloromethane			Not detected	1
Bromoform			Not detected	1
Bromomethane			Not detected	1
Carbon tetrachloride			Not detected	1
Chlorobenzene			Not detected	1
Chloroethane			Not detected	1
Chloroform			Not detected	1
Chloromethane			Not detected	1
cis-1,3-Dichloropropylene			Not detected	1

YORK

Client Sample ID			Trip Blank 2-2	
York Sample ID			01010319-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Dibromochloromethane			Not detected	1
Dibromomethane			Not detected	1
Dichlorodifluoromethane			Not detected	1
Ethylbenzene			Not detected	1
Hexachlorobutadiene			Not detected	1
Isopropylbenzene			Not detected	1
Methylene chloride			Not detected	1
Naphthalene			Not detected	1
n-Butylbenzene			Not detected	1
n-Propylbenzene			Not detected	1
o-Xylene			Not detected	1
p- & m-Xylenes			Not detected	1
p-Isopropyltoluene			Not detected	1
sec-Butylbenzene			Not detected	1
Styrene			Not detected	1
tert-Butylbenzene			Not detected	1
Tetrachloroethylene			Not detected	1
Toluene			Not detected	1
trans-1,3-Dichloropropylene			Not detected	1
Trichloroethylene			Not detected	1
Trichlorofluoromethane			Not detected	1
Vinyl chloride			Not detected	1

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____

Robert Q. Bradley
Managing Director

Date: 1/25/2001

YORK

YORK

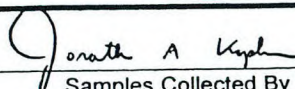
ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE

STAMFORD, CT 06906


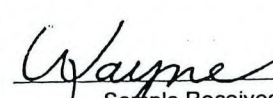
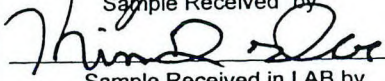
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name ECOSYSTEM STRATEGIES	Report To: JONATHAN A. KAPLAN	Invoice To: PAM	Project ID/No. LM97145.40	 Samples Collected By (Signature) JONATHAN A KAPLAN Name (Printed)
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Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	MW-204-2-2	1/16/01	X				8260	2 - VIALS
	MW-3-2-2	1/16/01	X					
	MW-203-2-2	1/16/01	X					
	MW-13-2-2	1/16/01	X					
	FIELD BLANK, 2-2	1/16/01	X					
	EQUIPMENT BLANK 2-2	1/16/01	X					
	TRIP BLANK-2-2	1/16/01	X				X	X

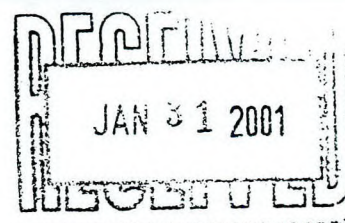
Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	 Sample Relinquished by	1/17/01 1:20 Date/Time	 Sample Received by	1/17/01 120 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	 Sample Received in LAB by	1/17/01 1700 Date/Time

Comments/Special Instructions

Turn-Around Time

X Standard RUSH(define)



Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Report Date: 1/29/2001
Re: Client Project ID: LM97145.40
York Project No.: 01010380

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

Report Date: 1/29/2001
Client Project ID: LM97145.40

York Project No.: 01010380

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 01/19/01. The project was identified as your project "LM97145.40".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			Trip Blank 2-3		Equipment Blank 2-3	
York Sample ID			01010380-01		01010380-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
* 1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			Not detected	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			Trip Blank 2-3		Equipment Blank 2-3	
York Sample ID			01010380-01		01010380-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			Not detected	1	Not detected	1
Toluene			Not detected	1	Not detected	1
* trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			Not detected	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Client Sample ID			MW-4-2-3		Field Blank 2-3	
York Sample ID			01010380-03		01010380-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-4-2-3		Field Blank 2-3	
York Sample ID			01010380-03		01010380-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			150(cis-)	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			10000	1	Not detected	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			120	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-14-2-3		MW-16-2-3	
York Sample ID			01010380-05		01010380-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	25
1,1,1-Trichloroethane			Not detected	1	Not detected	25
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	25
1,1,2-Trichloroethane			Not detected	1	Not detected	25
1,1-Dichloroethane			Not detected	1	Not detected	25
1,1-Dichloroethylene			Not detected	1	Not detected	25
1,1-Dichloropropylene			Not detected	1	Not detected	25
1,2,3-Trichlorobenzene			Not detected	1	Not detected	25
1,2,3-Trichloropropane			Not detected	1	Not detected	25
1,2,3-Trimethylbenzene			Not detected	1	Not detected	25
1,2,4-Trichlorobenzene			Not detected	1	Not detected	25
1,2,4-Trimethylbenzene			Not detected	1	Not detected	25
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	25
1,2-Dibromoethane			Not detected	1	Not detected	25
1,2-Dichlorobenzene			Not detected	1	Not detected	25
1,2-Dichloroethane			Not detected	1	Not detected	25
1,2-Dichloroethylene (Total)			Not detected	1	360(cis-)	25
1,2-Dichloropropane			Not detected	1	Not detected	25
1,3,5-Trimethylbenzene			Not detected	1	Not detected	25
1,3-Dichlorobenzene			Not detected	1	Not detected	25
1,3-Dichloropropane			Not detected	1	Not detected	25
1,4-Dichlorobenzene			Not detected	1	Not detected	25
1-Chlorohexane			Not detected	1	Not detected	25
2,2-Dichloropropane			Not detected	1	Not detected	25
2-Chlorotoluene			Not detected	1	Not detected	25
4-Chlorotoluene			Not detected	1	Not detected	25
Benzene			Not detected	1	Not detected	25
Bromobenzene			Not detected	1	Not detected	25
Bromochloromethane			Not detected	1	Not detected	25
Bromodichloromethane			Not detected	1	Not detected	25
Bromoform			Not detected	1	Not detected	25
Bromomethane			Not detected	1	Not detected	25
Carbon tetrachloride			Not detected	1	Not detected	25
Chlorobenzene			Not detected	1	Not detected	25
Chloroethane			Not detected	1	Not detected	25
Chloroform			Not detected	1	Not detected	25
Chloromethane			Not detected	1	Not detected	25
cis-1,3-Dichloropropylene			Not detected	1	Not detected	25
Dibromochloromethane			Not detected	1	Not detected	25
Dibromomethane			Not detected	1	Not detected	25
Dichlorodifluoromethane			Not detected	1	Not detected	25
Ethylbenzene			Not detected	1	Not detected	25
Hexachlorobutadiene			Not detected	1	Not detected	25
Isopropylbenzene			Not detected	1	Not detected	25
Methylene chloride			Not detected	1	Not detected	25
Naphthalene			Not detected	1	Not detected	25
n-Butylbenzene			Not detected	1	Not detected	25
n-Propylbenzene			Not detected	1	Not detected	25
o-Xylene			Not detected	1	Not detected	25
p- & m-Xylenes			Not detected	1	Not detected	25
p-Isopropyltoluene			Not detected	1	Not detected	25
sec-Butylbenzene			Not detected	1	Not detected	25

YORK

Client Sample ID			MW-14-2-3		MW-16-2-3	
York Sample ID			01010380-05		01010380-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Styrene			Not detected	1	Not detected	25
tert-Butylbenzene			Not detected	1	Not detected	25
Tetrachloroethylene			6	1	6200	25
Toluene			Not detected	1	Not detected	25
trans-1,3-Dichloropropylene			Not detected	1	Not detected	25
Trichloroethylene			2	1	410	25
Trichlorofluoromethane			Not detected	1	Not detected	25
Vinyl chloride			Not detected	1	Not detected	25

Client Sample ID			MW-5-2-3		Equipment Blank Final	
York Sample ID			01010380-07		01010380-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list water	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,1-Trichloroethane			Not detected	1	Not detected	1
1,1,2,2-Tetrachloroethane			Not detected	1	Not detected	1
1,1,2-Trichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethane			Not detected	1	Not detected	1
1,1-Dichloroethylene			Not detected	1	Not detected	1
1,1-Dichloropropylene			Not detected	1	Not detected	1
1,2,3-Trichlorobenzene			Not detected	1	Not detected	1
1,2,3-Trichloropropane			Not detected	1	Not detected	1
1,2,3-Trimethylbenzene			Not detected	1	Not detected	1
1,2,4-Trichlorobenzene			Not detected	1	Not detected	1
1,2,4-Trimethylbenzene			Not detected	1	Not detected	1
1,2-Dibromo-3-chloropropane			Not detected	1	Not detected	1
1,2-Dibromoethane			Not detected	1	Not detected	1
1,2-Dichlorobenzene			Not detected	1	Not detected	1
1,2-Dichloroethane			Not detected	1	Not detected	1
1,2-Dichloroethylene (Total)			1100(cis-)	1	Not detected	1
1,2-Dichloropropane			Not detected	1	Not detected	1
1,3,5-Trimethylbenzene			Not detected	1	Not detected	1
1,3-Dichlorobenzene			Not detected	1	Not detected	1
1,3-Dichloropropane			Not detected	1	Not detected	1
1,4-Dichlorobenzene			Not detected	1	Not detected	1
1-Chlorohexane			Not detected	1	Not detected	1
2,2-Dichloropropane			Not detected	1	Not detected	1
2-Chlorotoluene			Not detected	1	Not detected	1
4-Chlorotoluene			Not detected	1	Not detected	1
Benzene			Not detected	1	Not detected	1
Bromobenzene			Not detected	1	Not detected	1
Bromochloromethane			Not detected	1	Not detected	1
Bromodichloromethane			Not detected	1	Not detected	1
Bromoform			Not detected	1	Not detected	1
Bromomethane			Not detected	1	Not detected	1
Carbon tetrachloride			Not detected	1	Not detected	1
Chlorobenzene			Not detected	1	Not detected	1
Chloroethane			Not detected	1	Not detected	1
Chloroform			Not detected	1	Not detected	1
Chloromethane			Not detected	1	Not detected	1
cis-1,3-Dichloropropylene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-5-2-3		Equipment Blank Final	
York Sample ID			01010380-07		01010380-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibromochloromethane			Not detected	1	Not detected	1
Dibromomethane			Not detected	1	Not detected	1
Dichlorodifluoromethane			Not detected	1	Not detected	1
Ethylbenzene			Not detected	1	Not detected	1
Hexachlorobutadiene			Not detected	1	Not detected	1
Isopropylbenzene			Not detected	1	Not detected	1
Methylene chloride			Not detected	1	Not detected	1
Naphthalene			Not detected	1	Not detected	1
n-Butylbenzene			Not detected	1	Not detected	1
n-Propylbenzene			Not detected	1	Not detected	1
o-Xylene			Not detected	1	Not detected	1
p- & m-Xylenes			Not detected	1	Not detected	1
p-Isopropyltoluene			Not detected	1	Not detected	1
sec-Butylbenzene			Not detected	1	Not detected	1
Styrene			Not detected	1	Not detected	1
tert-Butylbenzene			Not detected	1	Not detected	1
Tetrachloroethylene			28000	1	15	1
Toluene			Not detected	1	Not detected	1
trans-1,3-Dichloropropylene			Not detected	1	Not detected	1
Trichloroethylene			300	1	Not detected	1
Trichlorofluoromethane			Not detected	1	Not detected	1
Vinyl chloride			Not detected	1	Not detected	1

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By:

Robert Q. Bradley
Managing Director

Date: 1/29/2001

YORK

YORK

ANALYTICAL LABORATORIES, INC.

ONE RESEARCH DRIVE

STAMFORD, CT 06906

(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody RecordCompany NameECOSYSTEMS
STRATEGIES
INC.Report To:JONATHAN A.
KAPLANInvoice To:

PAM

Project ID/No.

LM 97145.40

Samples Collected By (Signature)

JONATHAN A. KAPLAN

Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	TRIP BLANK 2-3	1/18/01	X				8260	2-VIALS
	EQUIPMENT BLANK 2-3		X					
	MW-4-2-3		X					
	FIELD BLANK 2-3		X					
	MW-14-2-3		X					
	MW-16-2-3		X					
	MW-5-2-3		X					
	EQUIPMENT BLANK FINAL	X	X				X	X

Chain-of-Custody Record

Bottles Relinquished from Lab by

Date/Time

Sample Relinquished by

Date/Time

Bottles Received in Field by

Date/Time

Sample Relinquished by

Date/Time

Sample Received by

Date/Time

Sample Received in LAB by

Date/Time

Comments/Special Instructions

Turn-Around Time

Standard RUSH(define)