



e-mail: h2m@h2m.com web; www.h2m.com

Holzmacher, McLendon & Murrell, P.C. ► H2M Associates, Inc. H2M Labs, Inc. ► H2M Construction Management, Inc.

575 Broad Hollow Road, Melville, New York 11747

(631) 756-8000, Fax: (631) 694-4122

January 30, 2003

Mr. Jaime Ascher New York State Department of Environmental Conservation Division of Environmental Remediation Building 40-SUNY Stony Brook, NY 11790-2356

Re:

Cornell University Long Island Horticultural Research and Extension Center

3059 Sound Avenue, Riverhead, New York

Groundwater Investigation and Soil Remediation Summary Report

Voluntary Cleanup Agreement D1-0002-01-03

Dear Mr. Ascher:

Enclosed are two copies of the Groundwater Investigation and Soil Remediation Summary Report for the Cornell University LIHREC. Also enclosed is one set (three volumes) of the full CLP laboratory data package. The work was conducted in accordance with the procedures outlined in our April 2002 Groundwater Investigation and Soil Remediation Work Plan, and is now complete.

On behalf of our client, Cornell University, we respectfully request that the NYSDEC consider the remedial actions at the Site complete. Further, we request that Cornell University be provided a Release and Covenant Not to Sue as prescribed in the Voluntary Cleanup Agreement, Index D1-0002-01-03.

If you should have any questions, please contact either Mr. Gary Miller at (631) 756-8000, Ext. 1620 or Mr. Christopher J. Flynn at Ext. 1484.

Very truly yours,

HOLZMACHER, McLENDON & MURRELL, P.C.

Gary J. Miller, P.E. Vice President

cc; Steven Beyers/Cornell University
Mark Bridgen/Cornell LIHREC
William E. Fry
Jacqueline Nealon/NYSDOH
Kevin Carpenter/NYSDEC
Sy Robbins/SCDHS

Project Manager



GROUNDWATER INVESTIGATION AND SOIL REMEDIATION SUMMARY REPORT

LONG ISLAND HORTICULTURAL RESEARCH AND EXTENSION CENTER RIVERHEAD, NEW YORK

JANUARY 2003

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JANUARY 2003

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1. Engineers (1.1.1.7)?



GROUNDWATER INVESTIGATION AND SOIL REMEDIATION SUMMARY REPORT

LONG ISLAND HORTICULTURAL RESEARCH AND EXTENSION CENTER RIVERHEAD, NEW YORK

JANUARY 2003

1.0 INTRODUCTION

Cornell University entered into a Voluntary Cleanup Agreement (Agreement) with the New York State Department of Environmental Conservation (NYSDEC) to conduct additional investigation and remediation work at the Long Island Horticultural Research and Extension Center (LIHREC). Cornell requested to enter into the Agreement based upon the results of a November 1997 Preliminary Site Assessment (PSA) performed by Holzmacher, McLendon & Murrell, P.C. (H2M). In order to comply with the requirements of the Agreement, Cornell University retained H2M to conduct an additional groundwater investigation and soil remediation program at the LIHREC, located at 3059 Sound Avenue in Riverhead, New York (see Figure 1.1). The "Site", as defined in the Agreement, is limited to two previously identified areas of concern (i.e., rock drain area and evaporation pit overflow drywell). A survey map highlighting the Site boundaries as well as the locations of the rock drain area and overflow drywell are presented in Figure 1.2 (pocket). A metes and bounds description of the "Site" is presented in Appendix A. The "Contaminants of Concern", as defined in the Agreement, are limited to pesticides.

A Work Plan for implementing the additional groundwater investigation and soil remediation program was submitted by H2M to NYSDEC for final approval in April 2002. Specifically, the Work Plan presented a summary of the general approach and procedures for all investigation activities with respect to our November 1997 Preliminary Site Assessment (PSA). The Work Plan also included a Quality Assurance Project Plan and site-specific Health and Safety Plan. Based upon the scope of work, the project goals were to determine the extent, if any, of groundwater contamination resulting from pesticide impacted subsurface soils within the



"Site", and effectively remediate pesticide impacted subsurface soils within the rock drain area and overflow drywell. NYSDEC issued final approval of the April 2002 Groundwater Investigation and Soil Remediation Work Plan on June 25, 2002.

In consideration of the above, this summary report provides a detailed discussion of the groundwater investigation and soil remediation work, and presents the results of our findings. The focus of the groundwater investigation was to determine if groundwater is significantly impacted due to elevated pesticide concentrations previously identified in subsurface soils associated with both the rock drain area and the evaporation pit overflow drywell. The investigation consisted of an exposure assessment to determine whether there are any potential environmental receptors within a one-mile radius of the Site. Further, one additional downgradient monitoring well (i.e. MW-4) was installed in order to better define the site specific groundwater flow direction. After allowing MW-4 to stabilize following development, a round of groundwater monitoring was conducted on July 17, 2002. Groundwater samples were collected for pesticide analyses from existing monitoring wells MW-1 through MW-4, and one of the LIHREC's irrigation wells (S-73265). A second round of groundwater monitoring was conducted at MW-1 through MW-4 on October 16, 2002. The LIHREC Irrigation Well S-73265 was sampled for the second time on October 29, 2002. Results of the groundwater investigation are presented in Section 4.0 (Groundwater Investigation Summary and Results).

The focus of the soil remediation program was to document the removal and disposal of impacted subsurface soils from both the rock drain area and the overflow drywell. The soil remediation program consisted of excavation and disposal of the impacted soils identified in both the rock drain area and overflow drywell during the November 1997 PSA. The soil remediation work was conducted during the period of July 8 through July 10, 2002. Upon completion of the soil removal work, both areas were backfilled with clean sand. Results of the soil remediation work are presented in Section 5.0 (Soil Remediation Summary and Results).



2.0 BACKGROUND

The LIHREC is a horticultural research center administered by Cornell University and the State University of New York. Horticultural research conducted at the facility includes the planting and care of diverse crops in small experimental land plots in open fields and containers in greenhouses. Various pesticides, including proprietary products, are mixed and applied to crops during experimental trials. Reportedly, the consistent prior practice had been to rinse pesticide containers emptied of product with water prior to disposal. In most cases, the rinse water was added to the pesticide application tanks. Upon completing a specific pesticide application, the application tank was rinsed clean. The rinsate water from the application tank was discharged into an evaporation pit/drywell system for disposal (See Figure 2.1). Prior to the construction of the evaporation pit/drywell system, rinse water was reportedly discharged to a rock drain area.

2.1 Previous Analytical Results

Results of previous NYSDEC laboratory analyses indicated that endosulfan I, endosulfan II, endosulfan sulfate, and chlordane were detected in an evaporation pit liquid sample at concentrations ranging from 80 to 320 micrograms per liter (ug/l). NYSDEC laboratory analyses of an evaporation pit bottom sample detected heptachlor, alpha chlordane, and gamma chlordane at concentrations of 720,000, 1,900,000, and 2,000,000 micrograms per kilogram (ug/kg) respectively. Other NYSDEC evaporation pit bottom sample analyses detected endosulfan I, endosulfan II, and chlordane at 7,900,000, 2,900,000, and 4,000,000 ug/kg respectively. Finally, NYSDEC analyses of overflow drywell bottom sediments indicated the presence of endosulfan I, endosulfan II and chlordane.

Analyses performed by a LIHREC-contracted laboratory indicated the presence of chlordane in an evaporation pit liquid sample (529 ug/l), evaporation bottom sediments (251,000 ug/kg), and overflow drywell bottom sediments (75,300 ug/kg).



In consideration of the above, Cornell submitted a work plan to NYSDEC for removal of all liquid and sludge from both the evaporation pit and overflow drywell in approximately January 1994. The remediation work plan was approved by Ms. Katy Murphy of NYSDEC on November 30, 1994. A copy of the approved work plan is presented in Appendix B.

The remediation work was conducted on December 7, 1994 by Laidlaw Environmental Services (LES). Present during the remediation work were Ms. Murphy and Mr. Robert Becherer of NYSDEC, Mr. Joseph Siezcka (Cornell LIHREC), and Mr. Bennett Orlowski (Cornell LIHREC). A copy of the NYSDEC field notes as compiled by Ms. Murphy are presented in Appendix B-1.

As per the NYSDEC field notes, approximately two feet of liquid and sludge were present in the evaporation pit prior to the start of the remediation work. The remediation work consisted of first removing the liquid phase of the waste material from the evaporation pit. There was no standing water present in the overflow drywell at the time of remediation. The liquids were removed utilizing an electric pump and placed in DOT approved 55 gallon drums for later disposal as hazardous waste. Upon completion of the liquid removal, all bottom sediment/sludge was manually removed from both the evaporation pit and drywell and placed in 55-gallon drums for later off site disposal. After all of the bottom sediment/sludge was removed, the evaporation pit and its overflow pipe were decontaminated utilizing a high-pressure water tri-sodium phosphate rinse to remove residual contamination within the drainage structures. The liquid material (i.e. rinse water) was again removed utilizing an electric pump and placed in 55-gallon drums for later off site disposal. All of the 55-gallon drums containing liquid and bottom sediment/sludge were temporarily staged in the on site pesticide storage building until waste disposal approvals were obtained by LES.

A total of twenty-one (21) drums of liquid waste and three (3) drums of bottom sediment/sludge were generated as a result of the 1994 remediation work. In addition, one (1) drum of contaminated personnel protective equipment (PPE) was generated and properly



disposed of off site. The hazardous waste manifest documenting the proper disposal of the contaminated media and PPE is included in Appendix B-2. As indicated on the manifest, all of the drums were properly disposed of at the Aptus facility (Lakeville, MA) on February 15, 1995. In summary, the removal and proper disposal of the impacted bottom sediments formerly present in the evaporation pit has been documented and therefore, no further action is either recommended or warranted with respect to this structure. Further, as the evaporation pit is of concrete construction (i.e. concrete bottom), it was not possible to collect confirmatory soil samples from the evaporation pit bottom.

2.2 November 1997 Preliminary Site Assessment

In 1997, Cornell retained H2M to conduct a Preliminary Site Assessment (PSA) to evaluate the nature and extent of the suspected pesticide contamination associated with both the evaporation pit/overflow drywell system and former rock drain area. A summary of the general approach and procedures of all investigation activities is presented in H2M's November 1997 PSA report. The report, which was presented to NYSDEC, formed the basis for the proposed additional groundwater investigation and soil remediation program.

The scope of work for the PSA included two soil borings in each of the two suspected source areas with the collection of discrete soil samples at fixed intervals as each boring was advanced. Each soil boring was advanced until groundwater was encountered. Temporary well points were used to obtain groundwater samples at each boring. Each soil and groundwater sample was analyzed for pesticides. Based on the results of the groundwater sample analysis, one upgradient and two downgradient monitoring wells were installed to further evaluate the nature and extent of the contamination, and to determine whether the "Site" was the source of the contamination.

As part of the PSA, a soil boring was also conducted beneath the concrete bottom of the evaporation pit. Prior to conducting the soil boring, a borehole was cored through the concrete bottom of the evaporation pit utilizing a core drill. Split spoon soil samples were then collected



at ten-foot intervals until the groundwater table was encountered. Soil samples were collected at 4 to 6 feet below ground surface (bgs), 30 to 32 feet bgs, and 60 to 62 feet bgs. The soil sample at the 4 to 6 foot interval was collected directly below the evaporation pit's concrete bottom. Upon reaching the water table, a groundwater sample was collected. Each of the three soil samples and groundwater sample were retained for pesticide analyses by H2M Labs, Inc. Results of our lab analyses indicate that in all three soil samples, pesticides were either non-detectable or present at concentrations below their respective NYSDEC Recommended Soil Cleanup Objectives (RSCOs), as presented in NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels, HWR-94-4046, April 1995 (revised). Pesticides were non-detectable in the groundwater sample collected beneath the evaporation pit. In summary, based upon the analytical data, the subsurface soils beneath the evaporation pit bottom had not been significantly impacted by pesticides. Accordingly, no further action was either warranted or recommended with respect to additional soil sampling/analyses or soil remediation beneath the evaporation pit.

Soil samples from the boring completed through the center of the overflow drywell contained endosulfan I and endosulfan II at concentrations above their respective RSCOs throughout the soil boring. Overall, pesticide concentrations decreased significantly with depth. The highest pesticide concentrations were reported just below the bottom of the drywell (ten feet below ground surface). At this interval, chlordane was reported at a concentration of 580,000 ug/kg. Chlordane was the only pesticide (170 ug/l) detected in the groundwater sample at a concentration in excess of its respective NYSDEC Class GA Water Quality Standard.

Results of the soil borings completed through the rock drain area indicated pesticide concentrations in excess of their respective RSCOs to a total depth of ten feet below grade. P, P-DDT was the only pesticide (0.74 ug/l) detected in the groundwater sample at a concentration in excess of its respective NYSDEC Class GA Water Quality Standard. A site map depicting our 1997 PSA analytical results and groundwater investigation sample locations is presented in Figure 2.1.



3.0 GEOLOGY AND HYDROGEOLOGY

The geologic formations that underlie Suffolk County are composed of a series of thick deposits of unconsolidated water-bearing sediments of late Cretaceous and Pleistocene age. These unconsolidated deposits are underlain by crystalline bedrock of Precambrian age.

There are three primary water-yielding aquifers underlying Suffolk County. These aquifers, from shallow to deep are: (1) Upper Glacial; (2) Magothy; and (3) Lloyd aquifers. The Magothy aquifer has been reported to be semi-confined (confined in areas where the Gardiners clay unit is present). The underlying Lloyd aquifer is confined due to an overlying clay unit identified as the Raritan clay.

The Upper Glacial aquifer, consisting of highly permeable sand and gravel with occasional thin clay beds, has a glacial outwash origin. The saturated section of the Upper Glacial aquifer is approximately 310 feet thick in the LIHREC area of Long Island. Based upon the available data, groundwater occurs at approximately 80 to 90 feet bgs at the facility.

The Magothy aquifer is the principal water supply aquifer underlying Suffolk County. It consists primarily of lenticular beds of very fine to medium sand that are interbedded with clay, sandy clay, silt and some gravel and sand. Beds of coarse sand with gravel are common in the lower 100 to 150 feet of the aquifer. The Magothy aquifer reaches a thickness of approximately 400 feet beneath the LIHREC area.

Below the Magothy aquifer is the Raritan clay formation. This formation is a significant confining unit above the Lloyd aquifer that consists mainly of clay and silty clay and is approximately 100 feet thick in the LIHREC area. The clay has a very low hydraulic conductivity, but does not totally prevent movement of water between the Magothy aquifer and the underlying Lloyd aquifer.



The Lloyd aquifer is the oldest and deepest water-bearing unit. It rests unconformably on impermeable crystalline bedrock and consists of lenticular deposits of clay, silt, sandy clay, sand and gravel. The upper surface of the Lloyd occurs at approximately 900 feet bgs and is approximately 100 feet thick in the LIHREC area.



4.0 GROUNDWATER INVESTIGATION

To determine whether pesticide contamination previously identified in subsurface soils and groundwater beneath both the overflow drywell and rock drain area has the potential to impact environmental receptors within a one mile radius of the Site, H2M completed three (3) tasks in conjunction with the groundwater investigation phase of the project. All work performed in conjunction with the groundwater investigation was conducted in general accordance with the NYSDEC Quality Assurance Guidelines for Voluntary Cleanup Sites, as appropriate. Specifically, the tasks completed are identified as follows:

- Exposure Assessment
- Monitoring Well Installation
- Groundwater Sampling

4.1 Exposure Assessment

H2M performed an exposure assessment to identify potential environmental receptors, public and/or private potable water wells, production wells, and any human exposure scenarios that may exist within a one-mile radius of the Site. The objective of this task was to determine whether any potential pathways exist at the site that could pose potentially unacceptable human health risk.

A sensitive receptor study was conducted to identify the locations of public and private wells, schools, parks, beaches, churches, hospitals, water bodies, and wetlands within a one-mile radius of the subject property. Sources reviewed included a September 27, 2002 Well Report prepared by Toxics Targeting, Inc.-TTI (Ithaca, New York), available water supply information maintained by Riverhead Water District (RHWD), and Well Completion Reports maintained by the NYSDEC Region 1 Water Unit. A copy of the TTI Well Report is presented in Appendix C. A one mile radius map presenting the locations of both RHWD water mains and private wells not connected to RHWD service is presented in Figure 4.1 (One Mile Radius Map: Riverhead Water District Water Mains and Private Wells). Copies of the NYSDEC Well Completion Reports are presented in Appendix D.



Well locations and identification numbers presented in the TTI Well Report were obtained from the United States Geological Survey (USGS) and the New York State Department of Environmental Conservation (NYSDEC). Wells and other sensitive receptors located within a one-mile radius of the subject property are indicated on a One-Mile Well and Sensitive Receptor Map included in the TTI Well Report. Wells and other sensitive receptors identified in the Well Report include the following:

- Well S-2010.1: This well is identified in the Well Report as a USGS Groundwater Site Inventory (GWSI) well used for public water supply. According to the report, the well is located approximately 3,960 feet northeast of the Site and is 162 feet in depth. Based upon our review of the Well Completion Report compiled for the well, the well installation was completed on July 27, 1940. The owner is identified on the Well Report as Edward C. Griffin & Son, Inc., of Port Jefferson, New York. The well was constructed with 6-inch diameter brass riser pipe and screen, and is screened from 152 to 162 feet below grade. Based upon the results of our visual observations in conjunction with an October 11, 2002 site visit conducted by representatives of H2M and Cornell University-LIHREC, Well S-2010.1 apparently no longer exists. Based upon our discussions with Mr. Gary Penzick (RHWD District Superintendent), RHWD has no knowledge of any active public supply wells in the Reeves Beach area. As presented on Figure 4.1, the residential area in which the well was formerly located is currently serviced by the RHWD.
- Well S-12160.1: This well is identified in the Well Report as a USGS GWSI well used for public water supply. According to the report, the well is located approximately 3,300 feet northeast of the Site and is 168.2 feet in depth. Based upon our review of the Well Completion Report compiled for this well, the well installation was completed on September 29, 1954. The owner is identified as Reeves Park Beach Co., Inc. of



Greenlawn, New York. The well was constructed of 5.75-inch diameter brass riser pipe and screen, and is screened from 149.2 to 168.2 feet below grade. Based upon the results of our October 11, 2002 site visit, Well S-12160.1 apparently no longer exists. Based upon our discussions with RHWD, the District has no knowledge of any active public supply wells in the Reeves Beach area. As presented on Figure 4.1, the residential area in which the well was formerly located is currently serviced by the RHWD.

- Well S-16442.1: This well is identified in the Well Report as a USGS GWSI well used for public water supply. According to the report, the well is located approximately 3,300 feet northeast of the site and is 163 feet in depth. Based upon our review of the Well Completion Report compiled for this well, the well installation was completed on July 26, 1958. The owner is identified as the Reeves Park Beach Co., Inc. of Riverhead, New York. The well was constructed with 5.75-inch diameter brass riser pipe and screen, and was screened from 149.8 to 163.4 feet below grade. Based upon the results of our October 11, 2002 site visit, Well S-16442.1 apparently no longer exists. RHWD has no knowledge of any active public supply wells in the Reeves Beach area. As presented on Figure 4.1, the residential area in which the well was formerly located is currently serviced by the RHWD.
- Reeves Beach Water Supply: This well is identified in the Well Report as a USGS GWSI well used for public water supply located approximately 1,320 feet northeast of the Site. As presented in the TTI Well Report, there was no information regarding specific construction details (i.e. total well depth, screened interval, etc.) for this well. Based upon the results of our October 11, 2002 site visit, this supply well apparently no longer exists. In addition, RHWD has no knowledge of any active public supply wells in the Reeves Beach area. As presented on Figure 4.1, the residential area in which the well was formerly located is currently serviced by the RHWD.



- Well S-104550: As presented in the TTI Well Report, this is a private well used for domestic water supply. The well is owned by Aqua Long Fish Farm and is located directly northwest of the Site (i.e. across Sound Avenue). Based upon our review of the NYSDEC Well Completion Report compiled for Well S-104550, the well was installed on June 2, 1994. The well is constructed of 4-inch diameter PVC and was completed at a depth of 105 feet below site grade. The well is screened from 101 to 105 feet below grade. As presented on Figure 4.1, the residential property on which the well is located is serviced by RHWD.
- Well S-51336.1: This is a USGS GWSI test well used for irrigation. The well is located approximately 3,300 feet northeast of the Site and is 205 feet in depth.
- Well S-2654.1: This is a USGS GWSI well used for irrigation. The well is located approximately 1,320 feet northeast of the Site and is 140 feet in depth.
- Well S-8025.1: This is a USGS GWSI well used for irrigation. The well is located approximately 3,960 feet southeast of the Site and is 130 feet in depth.
- Well S-1838.1: This is a USGS GWSI well used for irrigation. The well is located approximately 1,320 feet southwest of the Site and is 133 feet in depth.
- Well S-1215.1: This is a USGS GWSI well used for irrigation. The well is located on the Site and is 114 feet in depth.
- Well S-4048.1: This is a USGS GWSI well used for irrigation. The well is located approximately 3,300 feet west of the Site.



- Well S-46348.1: This is a USGS GWSI test well located approximately 3,960 feet northwest of the Site. The well is 200 feet in depth.
- Well S-22429.1: This is a USGS GWSI test well located approximately 3,960 feet north
 of the Site. Based upon information presented in the TTI Well Report, the well is 197
 feet in depth and is unused.
- Well S-73892.1: This is a USGS GWSI test well located 4,620 feet south of the Site. The well is 68 feet in depth.
- Well S-4271.1: This is a USGS GWSI observation well located on the Site. Based upon information presented in the TTI Well Report, the well is 105 feet in depth and is unused.
- Well WU S201: This is a USGS GWSI well used for withdrawal of water located approximately 3,360 feet northeast of the Site. As presented in the TTI Well Report, there is no information regarding either the specific water usage or total well depth.
- Well S-527.1: This is a USGS GWSI well used for withdrawal of water located just north of the Site and Well S-104550 described above. As presented in the TTI Well Report, there is no information regarding the specific water usage. The well is 133 feet in depth.
- Well WU S200: This is a USGS GWSI well used for withdrawal of water located approximately 3,300 feet northeast of the Site. As presented in the TTI Well Report, there is no information regarding either the specific water usage or total well depth.

Of the 18 wells described above, 11 are potentially hydraulically downgradient based upon their locations relative to the Site. These wells are S-22429.1, WU S-200, WU S-201.1, S-



527.1, S-2010.1, S-12160.1, S-16442.1, Reeves Beach Water Supply, S-104550, S-1215.1 and S-4271.1.

Of the 11 wells listed above, one well (i.e. S-22429.1) is identified in the TTI Well Report as an unused USGS test well and as such, does not represent a potential pathway with respect to human health risk.

Based upon information presented in the TTI Well Report, three wells (i.e. WU S-200, WU S-201, and S-527.1) are utilized for withdrawal of water, although no information is provided in the Well Report regarding the specific water usage at each of the three well locations. As discussed above, neither Well WU S-200 nor WU S-201 apparently exist any longer and RHWD has no knowledge of any active public supply wells in the Reeves Beach area. Well S-527.1 is located on private property just north of Sound Avenue and the Site. As shown on Figure 4.1, RHWD water mains are present on Park Road, which bisects the residential neighborhood surrounding both former well sites. Considering that the residential neighborhood adjacent to both former well sites is now serviced by RHWD, the former well sites do not represent potential pathways with respect to human health risk. As shown on Figure 4.1, a RHWD 12-inch diameter water main is located on Sound Avenue adjacent to the private property upon which S-527.1 is located. Results of site visit confirmed that the property is connected to the RHWD main. Therefore, Well S-527.1 does not apparently represent a potential pathway with respect to human health.

Based upon the TTI Well Report, four wells (i.e. S-2010, S-12160.1, S-16442.1, and Reeves Beach Water Supply) are utilized as public water supply wells. As stated above, results of our site visit indicate that the wells are no longer present. Further, RHWD has no knowledge of any active public supply wells in the Reeves Beach Area. As shown on Figure 4.1, RHWD water mains are present on both Eight Bells and Park Road. Both roads are located within a residential neighborhood adjacent to the former public supply wells. Considering that the



residential neighborhood is serviced by RHWD, none of the former supply wells represent apparent potential pathways with respect to human health risk.

Based upon the Well Report, one well (i.e. S-104550) is utilized as a domestic well. The well is located on private property directly across Sound Avenue from the Site and is owned by Aqua Long Fish Farm. Based upon the results of our October 11, 2002 site visit, this well is presumed to be located on the same property as Well 527.1 discussed above. As shown on Figure 4.1, the property is connected to the RHWD water service located on Sound Avenue. Therefore, Well S-104550 does not apparently represent a potential pathway with respect to human health risk.

Further, one irrigation well (S-1215.1) and one observation well (S-4271.1) are both located on the LIHREC property. The wells are located potentially hydraulically downgradient of the Site, although Well S-1215.1 is not used for potable water and Well S-4271.1 is not in use. Therefore, neither well represents a potential pathway with respect to human health risk.

As presented on the One Mile Well and Sensitive Receptor Map in the TTI Well Report, the remaining seven wells are hydraulically upgradient based upon their locations relative to the Site. Therefore, none of these wells represent potential pathways with respect to human health risk.

As shown on the One Mile Well and Sensitive Receptor Map, there are no other potential receptors (i.e. schools, parks, beaches, churches, hospitals, water bodies, and wetlands) within a one mile radius of the Site.

In summary, the results of our exposure assessment indicate that none of the wells described above represent potential pathways for human health risk. However, information provided by RHWD indicates that there are 52 residential properties, which are not connected to



RHWD within a one-mile radius of the Site. Presumably, water service is provided to these properties via private wells. Construction details for each well are unknown.

4.2 Monitoring Well Installation

H2M directed the installation of one additional groundwater monitoring well (i.e. MW-4) downgradient of the two source areas. As depicted in Figure 4.2 (Cornell University LIHREC Partial Site Plan), MW-4 was installed between existing monitoring well MW-2 and Horton Avenue. The well location was coordinated with LIHREC and approved by NYSDEC prior to installation. The well installation work was conducted by Land, Air, Water Environmental Services, Inc. (LAWES) of Center Moriches, New York on July 8, 2002.

Monitoring well MW-4 was constructed in general conformance with NYSDEC standard specifications as presented in NYSDEC TOGS 4.1.1 (1987). Both the drilling log as compiled by LAWES and the monitoring well construction log as compiled by H2M are presented in Appendix E. Well construction and installation procedures are described below.

MW-4 was installed using a hollow stem auger (HSA) drill rig under the direction of H2M and constructed in general accordance with NYSDEC specifications for monitoring well installations in unconsolidated formations. Continuous air monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) as required by the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP) was conducted during all monitoring well installation work. Air monitoring for VOCs was conducted utilizing a photoionization detector (PID) equipped with a 10.2 electron volt lamp. Results of our air monitoring for VOCs indicated total concentrations ranging from 1.1 parts per million (ppm) to 3.0 ppm. At no time did our PID readings exceed the appropriate action levels for VOCs as presented in the NYSDOH CAMP. Air monitoring for particulates (i.e. dust) was conducted utilizing an MIE Miniram (MIE). Results of our particulate monitoring indicated total particulate concentrations ranging from 0.30 micrograms per cubic centimeter (ug/cm³) to 0.43



ug/cm³. At no time did our MIE readings exceed the applicable action levels for particulates as presented in the NYSDOH CAMP.

Prior to installing the monitoring well, LIHREC personnel were contacted regarding potential subsurface utilities in the work area that would potentially impede the installation. As the work area is located in a state owned farm field that has been actively farmed for approximately 40 years, it was determined by LIHREC/H2M that there were no subsurface utilities present in the work zone. In addition, there were no overhead utilities present in the work area. Therefore, utility markouts prior to the start of the drilling work were not warranted.

All drilling equipment was steam cleaned prior to the start of work. The well screen and casing did not require decontamination as the well materials were cleaned and sealed at the factory. The monitoring well was constructed with four-inch I.D. PVC flush-joint risers with a fifteen-foot section of 0.010 inch (#10) slot-size PVC well screen. The well screen extends approximately five feet above and ten feet below the water table.

The annular space around the well screen was filled with a sand filter pack (i.e. Morie well gravel #2) extending from approximately six inches below the bottom of the screen to a height of approximately two feet above the top of the screen. A two-foot seal of bentonite pellets was placed above the filter pack. The bentonite pellets were continuously hydrated for approximately sixty minutes prior to installation of a cement/bentonite grout. The depth to the bottom and top of each seal was measured in the borehole to the nearest 0.1 foot using a weighted tape. The remaining annular space was grouted with a bentonite/cement slurry. A cement/bentonite surface seal was constructed by filling the annular space of the borehole and extended to approximately three feet below grade to ground surface, where a flush mounted well manhole was installed. A watertight locking cap was attached to the top of the PVC casing. Eight-inch diameter protective steel casing in a cement collar was installed over the well. A flush to grade steel cover assembly was then set around the well casing. The steel cover was set



into a sloped concrete pad, after the grout was allowed to set. A well construction diagram completed by H2M is presented in Appendix E.

The monitoring well development work was conducted by LAWES on July 9, 2002. All work was conducted under the direction of H2M. Periodic air monitoring for VOCs as required by the NYSDOH Generic CAMP was conducted by H2M during all well development work. Results of our air monitoring did not exceed a total concentration of 4.2 ppm for VOCs. Development water was containerized in two DOT-approved 55-gallon drums and staged on site. Liquid samples were collected from the drums for pesticide analyses to determine the proper disposal method for the material.

As requested by NYSDEC, depth to groundwater measurements were made both before and after well development. Based upon our field measurements, depth to groundwater was 79 feet below grade both before and after well development at MW-4.

H2M conducted a well survey at the Site on July 18, 2002. All survey work was performed under the direction of a New York State licensed surveyor. The survey included all wells utilized in the groundwater sampling program, with the exception of irrigation well S-73265. Specifically, the survey included the existing monitoring wells MW-1 through MW-3 and newly installed MW-4. The survey was conducted in order to more accurately define groundwater flow direction at the Site and confirm the local northerly groundwater flow direction.

The horizontal distance between each well was surveyed, and the elevation to the top of the well riser pipe was measured to the nearest 0.01 foot. In addition, the ground surface elevation was measured to the nearest 0.1 foot. The survey data, together with depth the water measurements, was utilized to develop a groundwater contour map and confirm the site specific



groundwater flow direction. A copy of our well survey is presented in Figure 1.2 (Survey Map of Study Area).

Based upon our survey data and as presented on Figure 1.2, the site-specific groundwater flow direction is toward the north-northeast. Therefore, our survey data confirms the local groundwater flow in a general northerly direction.

4.3 Groundwater Sampling

After allowing the new monitoring well to stabilize for a minimum of five (5) days following development, H2M conducted an initial round of groundwater sampling on July 17, 2002. Periodic air monitoring for VOCs was conducted during all groundwater sampling work, as required by the NYSDOH Generic CAMP. Prior to sampling, depth to groundwater was measured in each monitoring well. The data was used to develop a groundwater contour map and confirm local groundwater flow direction. The groundwater contours are presented on Figure 1.2.

Groundwater samples were collected from each of the three existing monitoring wells, the new monitoring well (MW-4) and LIHREC irrigation well S-73265. Locations of these wells are presented on Figure 4.2. As presented in the April 2002 Work Plan, Kreiger Well and Pump Corporation (Kreiger), installed irrigation well S-73265 in 1982. The well was installed to a total depth of 154 feet below site grade, with the screened interval from 134 feet to 154 feet. Static water was determined to be 82 feet below site grade. The well diameter is 10 inches and has a total capacity of 600 gallons per minute. Therefore, irrigation well S-73265 is not screened at the water table, and the groundwater samples collected from this well are representative of groundwater quality within a deeper portion of the aquifer.

Depth to groundwater measurements were also obtained at each of the monitoring wells after the completion of the groundwater sampling work. Depth to groundwater was not



measured with respect to the irrigation well because the well pump is a lineshaft turbine pump, rather than a submersible pump. The gear reducer is bolted to the wellhead and the shaft extends down into the well. Therefore, the well head is not accessible unless the gear reducer is unbolted from the pump and detached from the driver (i.e. diesel engine). The gear reducer, pump, and shaft must then be removed utilizing a crane.

As requested by the NYSDEC, an additional round of groundwater monitoring was to be conducted no less than 90 days after the initial sampling event. The second round of groundwater monitoring was conducted on October 16, 2002. Depth to water measurements both before and after sample collection were recorded, and periodic air monitoring for VOCs was conducted as required by the NYSDOH CAMP. It should be noted that the irrigation well was not in service during our October 16, 2002 sampling round. Therefore, H2M returned to the Site on October 29, 2002 to collect a groundwater sample from the irrigation well. As per NYSDEC, equipment (field) blank sample collection and analysis was not required in conjunction with the October 29, 2002 site visit.

Sample containers were provided by H2M Labs, Inc. Each sample container was thoroughly pre-cleaned at the laboratory prior to sample collection activities. Each container was provided with a label for sample identification purposes. In order to maintain and document sample possession, standard chain of custody (COC) procedures were followed and a COC form accompanied the sample containers. Copies of the COCs from both rounds of groundwater sampling are provided in Appendix F.

For quality assurance/quality control (QA/QC) purposes, a trip blank accompanied the samples and both an equipment (field) blank and a matrix spike/matrix spike duplicate (MS/MSD) sample were collected in conjunction with both the July 17 and October 16, 2002 groundwater sampling rounds.



The ten (10) groundwater samples and six (6) QA/QC samples were analyzed by H2M Labs, Inc. for Target Compound List (TCL) pesticides by SW 846, Method 8081. The analytes reported in Method 8081 are summarized below.

- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Chlordane
- Heptachlor
- Alpha Chlordane
- Gamma Chlordane
- Aldrin
- P. P' DDE
- Methoxychlor
- Toxaphene
- O, P DDT
- P, P' DDD
- P, P' DDT

In assessing the laboratory data, the analytical results were compared to NYSDEC Water Ouality Standards for Class GA groundwater, where applicable.

H2M Labs, Inc. is a NYSDOH-ELAP-CLP certified laboratory (NYSDOH Lab ID No. 10478). The H2M Laboratory Director has overall responsibility for all operational activities. The H2M Laboratory Quality Assurance Manager reviewed all data and was responsible for laboratory reports and quality control. In order to validate the data, a Data Usability Summary Report (DUSR) was prepared by the H2M Laboratory Quality Assurance Manager for both groundwater sampling rounds. The DUSR was prepared in general accordance with the NYSDEC Division of Environmental Remediation guidance document entitled "Guidance for the Development of Data Usability Summary Reports." All analytical laboratory deliverables conform to NYSDEC ASP Category B requirements.



Prior to groundwater sampling, plastic sheeting was placed at the foot of each well and utilized as the designated work zone for the sampling event. All sampling equipment was placed on the sheet to minimize the possibility of cross contamination from the surrounding soils. The following procedure was utilized for groundwater sampling at the Site:

- 1.) Prior to purging each monitoring well for sample collection, a static water level measurement to the nearest 0.01 foot was recorded. As discussed previously, the static water level was not measured in the irrigation well because the well pump is a lineshaft turbine pump.
- 2.) To ensure a representative groundwater, each well was purged prior to sample collection. A volume equal to three (3) or more times that of the well casing volume was purged from the well before collecting analytical samples. A decontaminated stainless steel submersible pump was used to remove the required well volume. The pump was decontaminated utilizing a scrub brush and alconox/distilled water. The pump was then rinsed utilizing distilled water prior to insertion into the monitoring well. All purge waters were containerized in DOT-approved 55-gallon drums and staged on site. Liquid samples were collected from the drums and analyzed for pesticide content to determine the proper disposal method for the material.
- 3.) Groundwater samples were collected each of the four monitoring wells utilizing a dedicated factory cleaned/sealed polyethylene disposable bailer. The bailer was attached to a dedicated polypropylene rope or nylon line. Field parameters (temperature, pH, turbidity, specific conductivity) were measured at each monitoring well after three (3) bailer volumes of groundwater were removed. The appropriate analytical sample bottles were then filled directly from the bailer as soon as it was removed from the well. Field measurements were recorded on a pre-printed field form. After all sample bottles were filled, they were appropriately labeled and put in ice-filled coolers for transportation to H2M Labs, Inc. for pesticide analyses. The well cap was secured and the above process



was repeated at the next monitoring well. Groundwater samples from the irrigation well were collected utilizing a valved sampling port.

- 4.) Upon completion of the groundwater sample collection work at each well, a static water level measurement to the nearest 0.01 foot was recorded.
- 5.) Periodic air monitoring for VOCs was performed in general accordance with the procedures outlined in the NYSDOH Generic CAMP.

QA/QC samples were collected in order to represent all groundwater sampling locations and assure quality control for the groundwater characterization of the Site. QA/QC sample sets include one (1) trip blank, one (1) equipment (field) blank, and one (1) MS/MSD for each of the two groundwater sampling rounds. As stated above, NYSDEC did not require the collection of an equipment (field blank) sample in conjunction with our October 29, 2002 site visit to collect groundwater samples from the irrigation well.

The blank samples were used to verify the quality of the field sampling results. The trip blank contained analyte-free water and was transported to and from the Site without opening the sample container. The trip blank served as a check for contamination originating from sample transport, shipping, and from field conditions. The field (equipment) blank was used to determine the effectiveness of the decontamination of the sampling equipment (i.e. dedicated bailers). Analyte-free water was poured into the bailer and then transferred to the appropriate sample containers to ensure proper decontamination procedures were followed by the supplier. All information relating to groundwater sampling activities were recorded in the field on preprinted forms. Copies of the groundwater sampling record sheets are provided in Appendix G. Proper documentation of field activities included the following:

- Date and time of work events
- Purpose of work
- Description of methods
- Description of samples
- Number and size of samples
- Date and time of sample collection



- Name(s) of field personnel
- Field observations
- Field measurements
- Air monitoring results

4.4 Analytical Results Summary and Discussion

A summary of the analytical results from the two rounds of groundwater monitoring is provided in Table 4.1. Only those pesticides that were detected in one or more monitoring well during one or more of the two sampling events are included in Table 4.1. Also included in the summary table are the applicable NYSDEC Class GA Water Quality Standards and NYSDOH Drinking Water Standards. Laboratory data summary sheets are provided in Appendix H. Full CLP data summary packages are provided as separate documents. As indicated in Table 4.1, all pesticide compounds were non-detectable in the groundwater samples collected on July 17, 2002 with the following exceptions:

- 4,4'-DDT was detected at a concentration of 0.08 ug/l in the sample collected from downgradient well MW-2.
- 4,4'-DDT (0.39 ug/l) and 4,4'-DDE (0.08 ug/l) were detected in the sample collected from upgradient well MW-3.
- Endosulfan sulfate was detected at a concentration of 0.11 ug/l in the sample collected from downgradient well MW-4.
- Endosulfan sulfate was detected at a concentration of 0.49 micrograms per liter (ug/l) in the sample collected from the irrigation well.

With the following exceptions, pesticides were non-detectable in the second round of groundwater samples collected on October 16 and October 29, 2002:

- 4,4'-DDT was detected at a concentration of 0.06 ug/l in the sample collected from downgradient well MW-2.
- 4,4'DDT (0.30 ug/l) and 4,4'-DDE (0.06 ug/l) were detected in the sample collected from upgradient well MW-3.



- Endosulfan sulfate was detected at a concentration of 0.11 ug/ in the sample collected from downgradient well MW-4.
- Endosulfan sulfate (0.92 ug/l) and endosulfan II (0.07 ug/l) were detected in the sample collected from the irrigation well.

Of particular significance, it should be noted that chlordane was not detected in any of the groundwater samples. Prior to the remedial actions taken at the LIHREC, chlordane was detected at a concentration in excess of its respective NYSDEC Class GA Water Quality Standard and was a principal cause for the remedial actions taken by Cornell/LIHREC.

In assessing the laboratory data, the analytical results were compared to the NYSDEC Class GA Water Quality Standards, as presented in 6 NYCRR Part 703.5 (Water Quality Standards: Surface Waters and Groundwater). The Class GA Water Quality Standard for both 4,4'DDT and 4,4'-DDE is 0.2 ug/l. There are no Class GA Water Quality Standards for either endosulfan sulfate or endosulfan II. Both are classified as Unspecified Organic Compounds (UOCs) with a corresponding drinking water standard of 50.0 ug/l.

Based upon the site-specific groundwater flow direction, MW-3 is located hydraulically upgradient of the two source areas (i.e. rock drain and overflow drywell) and at the most upgradient point of the overall LIHREC property. Although both 4,4'-DDT and 4,4'-DDE were detected in MW-3 in both sampling rounds, the location of the well with respect to both source areas indicate that neither the rock drain nor the overflow drywell is the source of the pesticide contamination. Based upon the laboratory data obtained from MW-3 and the site specific groundwater flow direction, it is apparent that there is a source of pesticide contamination located hydraulically upgradient of the Site.

The presence of 4,4' DDT in downgradient well MW-2 during both sampling rounds at concentrations below its respective Class GA groundwater standard indicates that there has been



no significant impact to the groundwater from the former source areas. All other pesticides were non-detectable in MW-2.

Endosulfan sulfate was detected in both MW-4 and the irrigation well in both sampling rounds. However, the concentrations detected were all well below the 50 ug/l drinking water standard for UOCs, as prescribed by NYSDOH, indicating that the two source areas have not significantly impacted groundwater.



5.0 SOIL REMEDIATION

Based upon the soil quality data developed during the November 1997 PSA, H2M prepared a detailed bid specification for remediating the overflow drywell and rock drain area. Requests for Proposals (RFPs) were forwarded to three qualified environmental contractors on May 31, 2002. The selected contractors were Clean Harbors Environmental Services, Inc. (Brooklyn, New York), Miller Environmental Group, Inc. (Calverton, New York), and Eastern Environmental Solutions, Inc. (Eastport, New York). A pre-bid meeting was conducted by H2M at the Site on June 5, 2002 to review the specifications and work plan for the soil remediation work. Miller Environmental Group and Eastern Environmental Solutions attended the pre-bid site walk and submitted proposals for the work. Clean Harbors did not attend the pre-bid site walk and declined to submit a proposal.

Cornell reviewed the two bids and awarded Eastern Environmental Solutions, Inc. (Eastern) the remediation contract. A complete set of the final bid documents, including plans and specifications for implementing the remedial activities, was submitted to NYSDEC prior to the initiation of field activities. The remediation included excavation and disposal of the impacted soils and the restoration of both areas. H2M provided technical oversight during all remediation work and collected representative confirmatory end-point soil samples from both areas. End-point soil samples were analyzed for TCL pesticides by SW-846, Method 8081 and Total Organic Carbon (TOC) by H2M Labs, Inc.

All applicable QA/QC procedures discussed in Section 4.0 (Groundwater Investigation) were incorporated into the soil remediation field activities, as appropriate. The objective of this task was to effectively remediate the impacted soils in the two areas of concern. As required by the NYSDOH, continuous air monitoring for both VOCs and particulates was conducted during all soil remediation work. The air monitoring was conducted in general accordance with the NYSDOH Generic Community Air Monitoring Plan (CAMP). Based upon our field



measurements, neither VOCs nor particulates exceeded the applicable action levels as prescribed in the NYSDOH CAMP.

5.1 Overflow Drywell Soil Remediation

Results of our PSA indicated that the highest pesticide concentrations were located within the first two feet below the bottom of the drywell. Based upon our discussions with the NYSDEC during a July 19, 1999 meeting, the impacted soils beneath the overflow drywell were to be excavated to the maximum depth practical using standard excavation equipment and techniques.

Prior to soil removal, Eastern excavated and removed the drywell dome. H2M then measured the distance to the drywell bottom utilizing a weighted tape in order to accurately determine the quantity of soils removed. Based upon our field measurements, the drywell bottom was encountered at approximately 7.5 feet below site grade. Eastern then excavated and removed all piping connecting the overflow drywell to the former evaporation pit. The dome and piping were transferred into a roll-off container for proper off site disposal.

H2M directed Eastern to remove impacted soils to a depth of approximately 16 feet below site grade. It is estimated that a total of approximately 25 cubic yards of soil was excavated and removed from the drywell. The excavated soils were then transferred into roll-off containers for transportation to an approved disposal facility. All concrete rings encountered in the course of the remedial work were removed upon completion of the work and properly disposed of off site as per NYSDEC request.

After the impacted soils were removed, H2M collected two evenly spaced confirmatory soil samples from the base of the excavation in order to confirm that the remediation was complete. H2M also collected two confirmatory side wall samples from the overflow drywell. Each of the confirmatory soil samples was analyzed for TCL pesticides by SW-846, Method 8081 and TOC. Upon completion of the soil removal, H2M directed Eastern to backfill the



excavation with New York State Department of Transportation (NYSDOT) certified fill. Pursuant to LIHREC request, the former evaporation pit was also excavated and removed. The excavation was then backfilled with NYSDOT certified fill.

A summary of the analytical results from the end-point samples is provided in Table 5.1. Only those compounds detected in one or more of the end-point samples are included in Table 5.1. Also included in the summary table are the applicable NYSDEC Recommended Soil Cleanup Objectives (RSCOs). As indicated in Table 5.1, pesticides were either non-detectable or present at concentrations well below their respective RSCOs in the two side wall end-point samples. Endosulfan I and endosulfan II exceeded the RSCOs in both end-point samples collected from the base of the excavation. Heptachlor and gamma-chlordane also exceeded the RSCOs in one of the base end-point samples. All other pesticide compounds in the samples from the base of the excavation were either non-detectable or present at concentrations below their respective RSCOs.

In consideration of the above, results of our end-point soil sample analyses indicate that three pesticide compounds are present at concentrations in excess of their respective RSCOs in subsurface soils approximately 16 feet below grade in the overflow drywell. Soils have been removed from the overflow drywell to the maximum practical depth utilizing standard excavation equipment and techniques. Therefore, further soil removal is not feasible.

Results of the 1997 PSA indicated that endosulfan I and endosulfan II were present at concentrations in excess of their respective RSCOs to a depth of 79 feet below grade. The most significantly impacted soils were present at 10 to 12 feet below grade, where endosulfan I was detected at a concentration of 310,000 ug/kg, endosulfan II at 97,000 ug/kg, and chlordane at 580,000 ug/kg. As a result of the remedial action, impacted soils have been removed to a depth of approximately 16 feet below site grade. Therefore, the most significantly impacted soils have been removed. Contaminant levels in the subsurface soils at 16 feet below grade are greatly reduced in comparison to those present in the impacted soils that have been excavated and



removed. In addition, results of our side wall analyses indicate that all significantly impacted soils have been removed adjacent to the former overflow drywell. Considering that the former overflow drywell has been backfilled with clean fill and the concrete rings have been removed, there is very little potential for significant downward migration of the contaminants remaining in the subsurface soils. Therefore, no further action is warranted with respect to the overflow drywell.

All impacted soils were disposed of off site at Wayne Disposal, Inc.-EQ (Belleville, Michigan). Waste disposal manifests are included in Appendix J. All soil remediation work with respect to the former overflow drywell is now complete.

5.2 Rock Drain Area Soil Remediation

Soil boring results from the PSA indicate that the highest pesticide concentrations in the rock drain area were present in the soils from grade to a depth of 12 feet. During the July 2002 remedial action, impacted soils in the rock drain area were excavated to a depth of approximately 14 feet below grade. Based upon the proximity of the rock drain to Horton Avenue, the excavation required shoring to approximately 25 feet below grade. It is estimated that a total of approximately 63 cubic yards of impacted soils were excavated and removed from the rock drain area. All excavated soils were then transferred to roll-off containers for transportation to the Wayne Disposal, Inc.-EQ facility. Waste disposal manifests documenting the proper disposal of the soils are presented in Appendix J.

After the impacted soils were removed, H2M collected two evenly spaced confirmatory endpoint soil samples from the base of the excavation to ensure that the soil remediation work is complete. The soil samples were analyzed for TCL pesticides by SW-846, Method 8081 and TOC. A summary of the analytical results from the rock drain end-point samples is provided in Table 5.2. Laboratory reports are provided in Appendix I.



Only those compounds detected in one or more of the end-point samples are included in Table 5.2. Also included in the summary table are the applicable NYSDEC Recommended Soil Cleanup Objectives (RSCOs). As indicated in Table 5.2, all detected pesticides compounds were present at concentrations well below their respective RSCOs in both end-point samples. Based upon the endpoint soil sample data, all of the significantly impacted soils have been removed from the former rock drain and no further action is warranted.

Upon completion of the soil removal, H2M directed the contractor to remove the shoring, backfill the excavation with NYSDOT certified clean fill, compact, and finish to site grade. All remediation work with respect to the former rock drain is now complete.



6.0 SUMMARY AND CONCLUSIONS

Results of our November 1997 PSA indicated the presence of pesticide impacted subsurface soils associated with both a rock drain and overflow drywell formerly located at the Cornell LIHREC. Cornell initiated a Voluntary Cleanup Agreement with the NYSDEC to conduct additional investigation and remediation work at the Site based upon the results of our PSA.

An April 2002 Groundwater Investigation and Soil Remediation Work Plan (Work Plan) was prepared by H2M to satisfy the Agreement's requirement for a work plan to implement a groundwater investigation and soil remediation program at the Site. The focus of the groundwater investigation was to determine whether groundwater was significantly impacted due to elevated pesticide concentrations previously identified in the subsurface soils within the rock drain area and overflow drywell. The focus of the soil remediation program was to document the removal and disposal of the impacted subsurface soils from the two former source areas. NYSDEC issued final approval of the Work Plan on June 25, 2002.

Results of the groundwater investigation indicated the presence of 4,4'-DDT and 4,4'-DDE in MW-3 located hydraulically upgradient of the two former source areas. Therefore, the contamination identified in MW-3 is not attributable to either the former rock drain or former overflow drywell. 4,4'-DDT was also identified in MW-2 located hydraulically downgradient of the former overflow drywell. However, the contaminant was identified at a concentration below its respective Class GA groundwater standard. No other pesticides were identified in MW-2. No pesticides were identified in groundwater samples collected from MW-1, located further downgradient of the former overflow drywell.

Endosulfan sulfate was detected in MW-4 at concentrations well below its NYSDOH drinking water standard. Endosulfan sulfate and endosulfan II were also detected at concentrations well below their respective NYSDOH drinking water standards in the irrigation



well. Chlordane, a pesticide detected at higher levels prior to the remedial actions, was not detected in any of the sampling rounds.

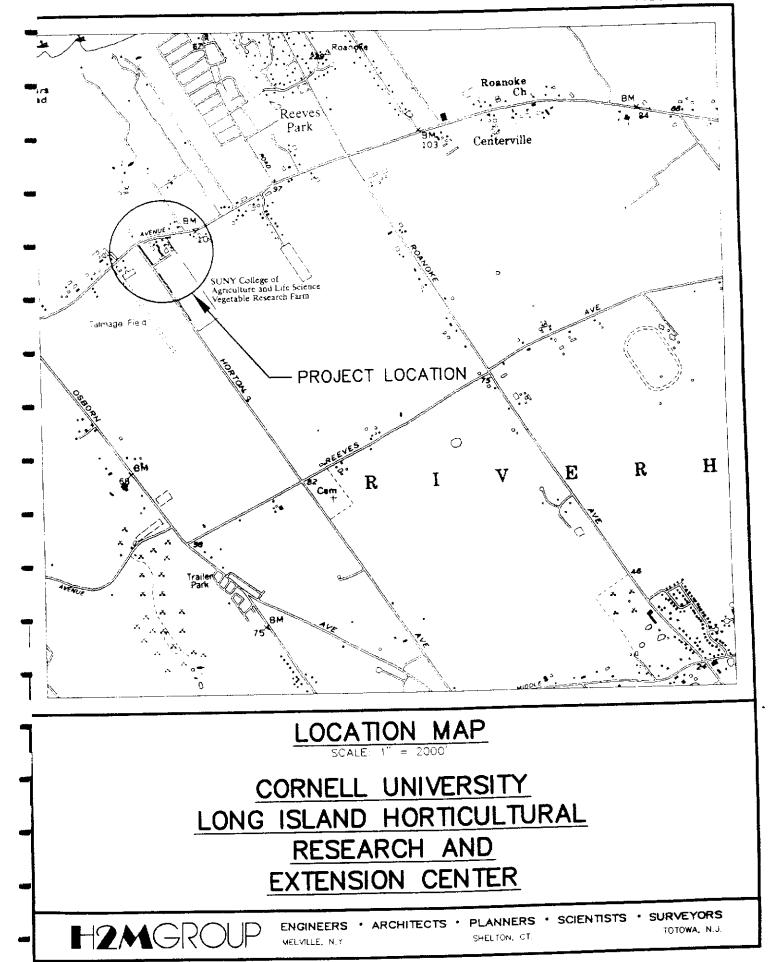
Therefore, the sampling program indicates that the impacted subsurface soils from the two former source areas have not significantly impacted groundwater quality.

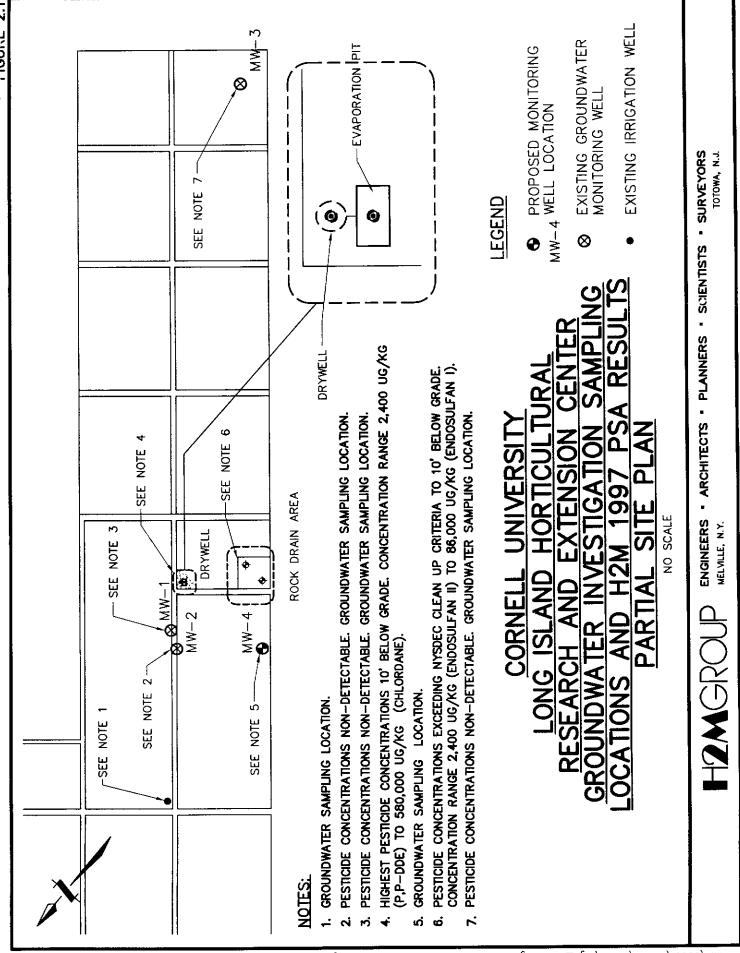
Results of the soil remediation program documented the successful removal and proper disposal of ail significantly impacted subsurface soils from the former rock drain. The former rock drain has been backfilled and no longer represents a source of soil or groundwater contamination.

In the former overflow drywell area, all impacted soils have been successfully removed to a depth of approximately 16 feet below grade. The most highly impacted subsurface soils present in and below the former structure have been removed and disposed of off site. The concrete rings, dome, and piping associated with the former structure have been removed and properly disposed of off site. In addition, the former evaporation pit was demolished and disposed of off site. Both areas have been backfilled with clean fill.

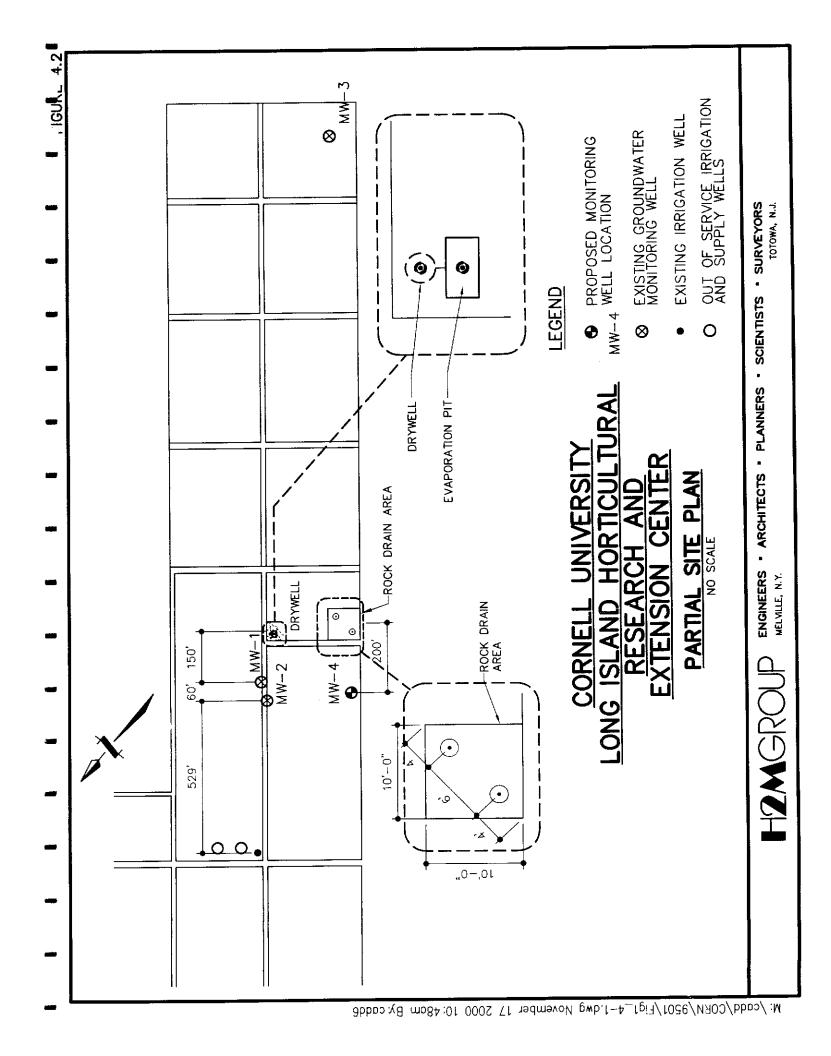
In conclusion, H2M certifies, based upon documentation and personal oversight, that the two former source areas have been remediated in accordance with the requirements and procedures outlined in the approved Work Plan. Further, groundwater sampling indicates no significant environmental impact to groundwater from the two former source areas. As Engineer of Record, H2M recommends no further action for this site.

FIGURES









TABLES



Long Island Horticulture Research and Extension Center Groundwater Sampling Results (1) Table 4.1

Parameter	X :	MW-1	W	MW-2	MW	MW-3 (2)	A	MW-4	Irrigation Well	n Well	NYSDEC Class GA Groundwater Standard (3)	NYSDOH Drinking Water Standard
	7/02	10/02	7/02	10/02	7/02	10/02	7/02	10/02	7/02	10/02		
Endosulfan sulfate	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	0.11	0.49	0.92	NA	50.0 (4)
Endosulfan II	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.07	NA	50.0 (4)
4,4'-DDT	<0.1	<0.1	0.08	90.0	0.39	0.30	<0.1	<0.1	<0.1	<0.1	0.2	5.0
4,4'-DDE	<0.1	<0.1	<0.1	<0.1	0.08	90.0	<0.1	<0.1	<0.1	<0.1	0.2	NA (5)

Notes:

All results reported in micrograms per liter (ug/l)
 Upgradient Well
 NYSDEC Part 703 Surface Water and Groundwater Quality Standards
 NYSDOH Unspecified Organic Compound (UOC)
 No Established Standard



Table 5.1

Overflow Drywell End-Point Soil Samples (1)

Long Island Horticulture Research and Extension Center

	Excavation	Excavation	Sidewall	Sidewall	NYSDEC
Parameter	Base # 1	Base # 2	East	West	RSCO (2)
Heptachlor	380	26.0	<1.7	<1.7	100
Aldrin	9.8	<1.8	<1.7	<1.7	41
Endosulfan I	85,000	30,000	34.0	<1.7	900
Dieldrin	18.0	3.7	<3.4	<3.4	44
4,4'-DDE	280	96.0	<3.4	<3.4	2,100
Endrin	<3.3	4.1	<3.4	<3.4	100
Endosulfan II	37,000	15,000	30.0	<3.4	900
Endosulfan sulfate	700	97.0	6.3	<3.4	1,000
4,4'-DDT	8.0	4.7	<3.4	<3.4	2,100
Methoxychlor	100	18.0	<1.7	<1.7	10,000
Endrin ketone	4.8	<3.4	<3.4	<3.4	-
Endrin aldehyde	10.0	<3.4	<3.4	<3.4	-
gamma-Chlordane	1,100	20.0	4.0	<1.7	540

Notes: (1) All results reported in microgram per kilogram (ug/kg)

(2) NYSDEC Recommended Soil Cleanup Objectives



Table 5.2

Rock Drain Area End-Point Soil Samples (1)

Long Island Horticulture Research and Extension Center

Parameter	Excavation Base East	Excavation Base West	NYSDEC RSCO (2)
delta-BHC	5.2	2.2	300
Heptachlor	2.2	2.2	100
Endosulfan I	63.0	16.0	900
Endosulfan II	35.0	9.3	900
Endosulfan sulfate	15.0	3.6	1,000

Notes: (1) All results reported in micrograms per kilogram (ug/kg)

(2) NYSDEC Recommended Soil Cleanup Objectives

APPENDIX A MEETS AND BOUNDS DESCRIPTION OF THE "SITE"

Proposed Legal Description for Cornell University Long Island Horticultural Laboratory STUDY AREA.

(encompassing dry well, evaporation pit & drain area)

Commencing at the Point of Beginning; said point being on the Easterly side of Horton Avenue near the Southwesterly comer of Land of Comell University and being the following three courses and distances from the corner formed by the northerly side of Reeves Avenue and the Easterly side of Horton Avenue; North 32°39'05" West, a distance of 2092.18 feet; thence North 32°06'35" West, a distance of 1415.51 feet; thence North 33°02'50" West, a distance of 279.74 feet to a point;

Thence from said Point of Beginning; along the Easterly side of Horton Avenue North 33°02'50" West, a distance of 400.00 feet; thence North 56°50'05" East, a distance of 400.00 feet; thence South 33°02'50" East, a distance of 400.00 feet; thence South 56°50'05" West, a distance of 400.00 feet to the Point of Beginning. Containing 3.7 ACRES, more or less.

APPENDIX B NYSDEC APPROVED 11/94 LES WORK PLAN

New York State Department of Environmental Conservation Building 40—SUNY, Stony Brook, New York 11790-2356

(516) 444-0239



Langdon Marsh Commissioner

November 30, 1994

Peter D. Paradise Environmental Engineer Cornell University Environmental Compliance Office Humphrey's Service Building Ithica, New York 14853-3701

RE: LI Horticultural Research Lab

Dear Mr. Paradise:

I have reviewed your workplan for the removal of all liquids and sludges from both the evaporation pit and drywell, subsequent power washing of the evaporation pit and overflow pipe and collection of rinsewater, and found it to be acceptable.

Bob Becherer and I are planning to be on-site for this removal. If there is any change to the proposed December 6th decontamination date, or if any removal will begin on the 5th, please let us know.

sincerely,

Katy Marphy Division of Hazardous

Substances Regulation

co: /J. Sieczka Fila

John Akt

RECEIVED

DEC : 1994

L.I. HONTIOULTURAL RESEARCH LAB.

WORK PLAN

LES personnel will arrive at Long Island Horticultural Research Lab in Riverhead, NY on December 5, 1994. LES technicians will first remove the liquid phase of the waste material in both the evaporation pit and the dry well. This will be accomplished by using an electric pump. The liquid material will be placed in DOT approved 17E/55 gallon drums and labelled for appropriate disposal as hazardous waste. This task will not require personnel to enter the pit and or dry well.

The next stage is to remove the sludge/solid phase from the evaporation pit and dry well system. LES personnel will enter the tank using appropriate confined space entry protocols (as outlined on the Health and Safety Plan). Sludge will be manually placed in 5 gallon pails and hoisted to the surface. This waste material will be placed in DOT approved 17H/55 gallon drums and labelled for disposal as hazardous waste.

Once residual liquids and solids have been removed, the evaporation pit and overflow pipe will be decontaminated in order to remove residual contaminates. This process will be conducted by using a high pressure water rinse with a solution of tri-sodium phosphate. Liquids will be collected by an electric vacuum and packaged in DOT approved 17E/55 gallon drums. Once all the rinseate liquids have been removed and the evaporation pit and overflow pipe are sufficiently decontaminated, Laidlaw along with Cornell University representatives, will cover and secure the work area.

Approximately 14 drums of contaminated liquid will be generated along with an estimated 4 drums of contaminated sludge. An estimated single drum of contaminated PPE will also be generated.

All the accumulated waste drums will be stored, in coordination with Cornell University representatives, in the on site pesticide storage building. All waste will be stored on site until an approval has been issued for disposal of the waste. In order to decrease the on site storage time a representative sample will be taken from both the sludge and liquid material before the site work takes place.

Both the liquid and sludge waste will be disposed of at Aptus's Coffeyville, Kansas RCRA Incinerators. Contaminated PPE from this project will be shipped to Laidlaw's Pinewood, S.C. secure chemical landfill. All waste will be transported via Laidlaw approved carriers. All necessary licenses and permits will be in place when the waste is picked up from the work site.

LES will provide materials necessary to complete this project safely and efficiently. Photographs of the site work will be taken by LES and submitted to Cornell. All LES Field Work is performed in compliance with all pertinent federal, state and local laws and regulations, and under strict safety standards.

APPENDIX B-1 NYSDEC FIELD NOTES



New York State Department of Environmental Conservation **MEMORANDUM**

TO: Ben Orlowske
FROM: Kaly Murphy Drick
SUBJECT: Mak pumpaut releasing of 12/7/49

Ittiched is a sopy if my nates from the 9th is you regulate.

COPACIL LIHRE 12/7/94 8115 Kucilanox site (3)
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$-$ Take $-$ 4 of γ
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- 9:10 purifiere broux - assistant is
- 9:10 pumping begus - generated driver using mall pump to
- David Solve Manager
- 4:15 Daim # 1 Huall - owitch do +2
- Began Ecraping sludge off side of tack
and the state of t
1. 20 Drum #3 full - switch fort of
- Prum #1 success
Drum #2 sealed
- 4/30 Drum # 1 Lilled - 2017/ 45
4:35 Suckery aut 2 tot
Prim #3 axied
Drum # 1 staid

rums - King bolt & Claure) 9.35 KARM # 5 feelt , witch to #6 Breaking up cludge a allow as much liquid to be pumped out as possible Drum # 4 Elaled. Drum #6 fuci. to #7 Dran + 7 Lett - Jantel 40 +0 Drune 45 porced Drum #6 Exced Drun # 7 percer Drum # 6 full - sw. teh to # 9 For tank intry-little in their w/ line attackment to back harnese a sur line detered fack at 9:52. Prun #8 pealed 9:53 Drum # 4 Jull- sw/ tok 40 # 10 9:35 Scraping studyen tack Clay shit int inpagain 10.05 Recing 1 0000 - 8/4 - pack up 10.09 Prum = 10 pilli- suited to # 11 Drum # 9 Haled 10 12 Duin # 11-full-

To resumple i legisit, i hald Francis sumples pracylt

10:15 Suite 1/2

Corrill 1817/94

10.20 PPI from Luce styriding Stopped puriping, temaning irune, unled, Drums to shed - 13 (muse have mused remoted). 10.30 shall break while lowers loaded with shed. Truck feeld 10 40 Drume sung mined into pesticide storing kulding for temperary arrange. 13 drums 10:45 - all 13 inches otared 10 90 - But it is suce " suiting dep Pik wished down with & Joap Chillian. 1100 Start Brung #17 11 05 Drum 4 14 full - switch to #15. BACK in per to luasen during Pumpell Kuling sludge out of 5 gal bucker of fer showething in. Atell liquid in pil. Sludge lunged into 55 get dim #18 11:15. Keune surping 1125 Clayde- uturn to shouting Bob Arrevel ox sete. 11:35 Drum # 15 full - to #16 Tiny wet lary vac excelle up Your pale 55 galden # 17 Sixt drum # 19, 15 12.45 Scap out w/ 5 gol pail Shoulling eut remening dudge + legiend from bottom 12:15 water peap spray down pe, ladder When down toglip sides, sixues noped aut 0/5 gal pail - uti 55 yaidon.

12:50 Stell withdray, scooping, scraping + or cuming

APPENDIX B-2 LES WASTE DISPOSAL DOCUMENTATION

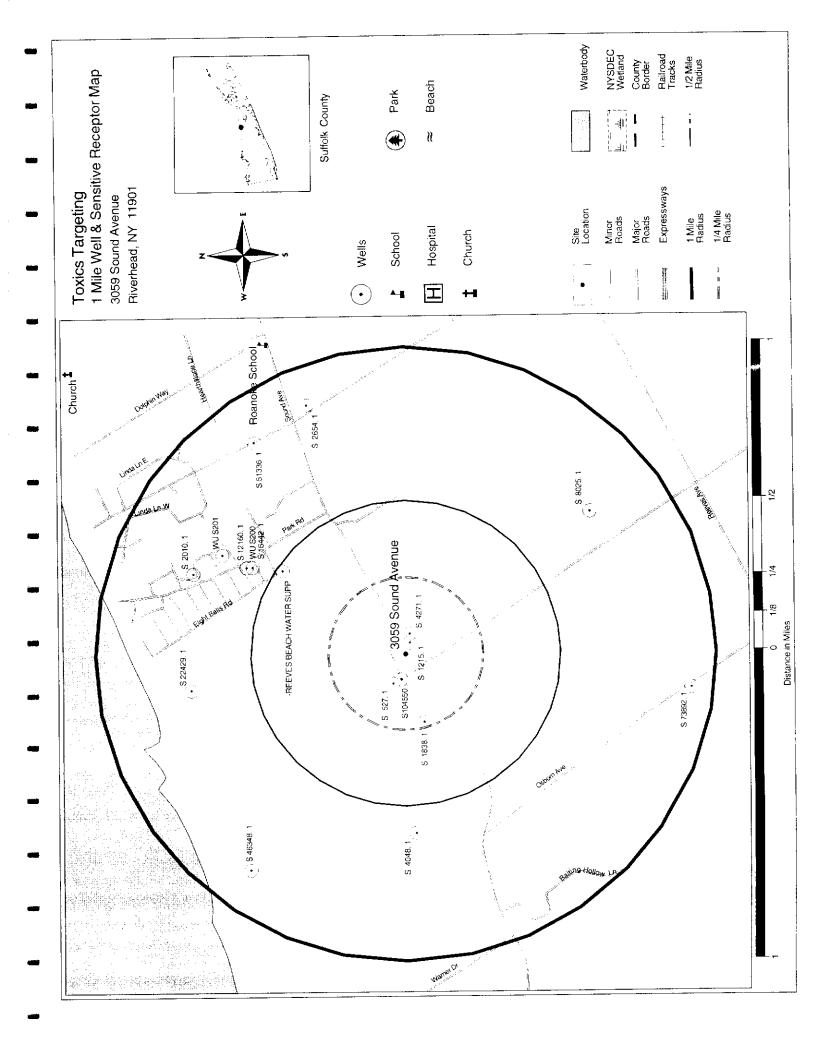
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APPENDIX C TTI WELL REPORT

Toxics Targeting Well Report

3059 Sound Avenue Riverhead, NY 11901

September 27, 2002



3059 Sound Avenue Riverhead, NY 11901 Well Report

Please note the same well may be tracked by different agencies with slightly varied well identification numbers. Wells can be mapped in multiple locations due to variations in the accuracy of map coordinates and addresses.

USGS Ground Water Site Inventory (GMSI) Wells:

405820072430801

USGS Site ID:

112GLCLU SUFFOLK

Primary Aquifer: Date Established:

Map Scale: County:

197 ft .1 ft

Accuracy: Hydrologic Unit:

Well Depth:

Local Well Number: S 22429. 1 Site location mapped by: Map coordinate

Source Agency: Source Map Name:

USGS SH3055 9269

Well Construction Date: Aquifer Type: Hole Depth:

£t 180.0 Altitude Land Surface: Topographic Setting: Depth Data Source:

GROUND WAIER OTHER THAN SPRING Significant Remark: Station Type:

WELL, FOR SINGLE WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE Ground-water Site Type:

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Water Use UNUSED Site Use TEST Primary:

None identified

Secondary: Tertiary: Type(s) of Data Collected:

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump: No information provided Construction: No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner:

No information provided Other Identifier: Other Data Available: No information provided

No information provided Site Visits: No information provided Field Water-quality: No information provided Geophysical Logs: No information provided Networks:

No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquifers: s 2010. 1 Local Well Number:

405819072424201

USGS Site ID:

112GLCLU SUFFOLK

162 ft

Date Established: Primary Aquiter:

Map Scale:

County:

Well Depth:

Accuracy:

Hydrologic Unit:

Site location mapped by: Map coordinate

USGS SH3086 9269 19460727 162 ft 130.0 ft Well Construction Date: Source Map Name: Source Agency: Aquifer Type: Hole Depth:

Altitude Land Surface: Topographic Setting:

GROUND WATER OTHER THAN SPRING Significant Remark: Depth Data Source: Station Type:

Ground-water Site Type: WELL, FOR SINGLE WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

PUBLIC SUPPLY Water Use Site Use WITHDRAWAL OF WATER Primary:

Secondary: Tertiary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Fump: No information provided Construction: No information provided Hole: No information provided Openings:

DISCHARGE INFORMATION:

No infermation provided

MISCELLANEOUS INFORMATION:

No information provided Owner: No information provided Other Identifier: Other Data Available: No information provided

No information provided Site Visits:

No information provided Field Water-quality: No informati n provided

Geophysical Logs:

No information provided Networks: No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit: No information provided Aquifers:

Local Well Number: WU S201 Site location mapped by: Map coordinate

USGS (PROJECT NY022)

Source Agency: Source Map Name:

405814072423801 USGS Site ID:

SUFFOLK

County: Map Scale:

Well Construction Date: Altitude Land Surface: Topographic Setting: Aquifer Type: Hole Depth:

Depth Data Source: Station Type:

GROUND WATER OTHER THAN SPRING

02030202

Hydrologic Unit:

Accuracy:

Date Established: Well Depth:

Primary Aquifer:

Significant Remark:

Ground-water Site Type: MULTIPLE WELLS (ONLY FOR WELL FIELD CONSISTING OF MELLS PUMPED THROUGH A SINGLE HEADER AND LITTLE INDIVIDUAL WELL DATA EXISTS)

THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY

Site Use

Water Use WITHDRAWAL OF WATER Primary:

Secondary: Tertiary: Type(s) of Data Collected:

None identified

CONSTRUCTION INFORMATION:

Site

Instruments at

No information provided Lift and Major Pump: No information provided Construction:

No information provided Hole: No information provided Openings:

DISCHARGE INFORMATION

provided No information

MISCELLANEOUS INFORMATION:

No information provided Owner:

No information provided

Other Identifier:

Other Data Available: No information provided

No information provided No information provided Field Water-quality: Site Visits:

No information provided Geophysical Logs:

No information provided Networks: No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquifers:

Local Well Number: S 12160. 1 Site location mapped by: Map coordinate

405810072424101

USGS Site ID:

112GLCLU SUFFOLK

Map Scale:

County:

174 ft .1 ft

Date Established: Well Depth: Primary Aquifer:

Hydrologic Unit:

Accuracy:

USGS Source Agency: Source Map Name:

SH3087 9269 Aquifer Type:

19540721 174 ft 125.0 ft Well Construction Date: Hole Depth:

Altitude Land Surface: Topographic Setting: Depth Data Source:

GROUND WATER OTHER THAN SPRING Significant Remark: Station Type:

Ground-water Site Type: WELL, FOR SINGLE WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Water Use

PUBLIC SUPPLY

Site Use WITHDRAWAL OF WATER Secondary: Primary:

Tertiary:

Type(s) of Data Collected: None identified

CONSTRUCTION INFORMATION:

Instruments at Site:

No information provided Lift and Major Pump: No information provided Construction: No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner: No information provided Other Identifier: Other Data Available: No information provided

No information provided Site Visits: No information provided Field Water-quality: No information provided Geophysical Logs:

No information provided Networks: No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquiters:

Local Well Number:

405811072434901

USGS Site ID:

SUPFOLK

200 ft

Date Established: Primary Aquifer:

Map Scale:

County:

Well Depth:

Accuracy:

Hydrologic Unit:

S 46348. 1 Map coordinate

Site location mapped by:

SH3015 Source Agency: Source Map Name: Aquifer Type:

Well Construction Date: Altitude Land Surface: Hole Depth:

GROUND MATER OTHER THAN SPRING Topographic Setting: Depth Data Source: Station Type:

Significant Remark:

Ground-water Site Type: WELL, FOR SINGLE WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: Data Have not been Field Checked by the Reporting Agency, But the Reporting Agency Considers the Data Reliable

Site Use TEST Primary:

Secondary:

Water Use

Tertlary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

Lift and Major Pump: No information provided

Construction: No information provided

Hole: No information provided

Openings: No information provided

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

Owner: No information provided Other Identifier: No information provided

Other Data Available: No information provided Site Visits: No information provided

Field Water-quality: No information provided Geophysical Logs: No information provided

Remarks: No information provided

No informati m provided

Networks:

GEOHYDROLOGIC LOGS INFORMATION:

Geohydrologic Unit: No information provided

Aquifers: No information provided

Local Well Number: Si6442.1 Site location mapped by: Map coordinate

Source Agency: USGS Source Map Name: SH3087 9269 Aquifer Type:

USGS Site ID: 405809073424101

County: SUFFCLK
Map Scale:
Primary Aquifer: 112GLCLU

19660407 164 ft 125.0 ft Well Construction Date: Hole Depth:

163 ft .1 ft

Hydrologic Unit:

Date Established:

Well Depth: Accuracy:

> Altitude Land Surface: Topographic Setting: Depth Data Source:

GROUND WATER OTHER THAN SPRING

Station Type:

Significant Remark:

Ground-water Site Type: WELL, FOR SINGLE WELLS OTHER THAN WELL, FOR SINGLE WELLS OTHER THAN WELL,

Data Reliability:

THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE DATA HAVE NOT BEEN FIELD CHECKED BY

Water Use PUBLIC SUPPLY

WITHDRAMAL OF WATER Site Use Primary:

Secondary: Tertiary: Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump: information provided $^{\circ}$ Construction:

No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner: No information provided Other Identifier: Other Data Available: No information provided

No information provided Site Visits:

No information provided Field Water-quality: No information provided Geophysical Logs:

No information provided Networks: No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No injurmation provided Geohydrologic Unit:

No information provided Aquifers:

Local Well Number: WU S200 Site location mapped by: Map coordinate

405809072424101

USGS Site ID:

SUFFOLK

02030202

Hydrologic Unit:

Date Established:

Well Depth:

Accuracy:

Primary Aquifer:

Map Scale:

County:

USGS (PROJECT NY022) Well Construction Date: Hole Depth: Altitude Land Surface: Source Agency: Source Map Name: Aquifer Type:

GROUND WATER OTHER THAN SPRING Significant Remark: Station Type:

Topographic Setting: Depth Data Source:

Ground-water Site Type: MULTIPLE WELLS (ONLY FOR WELL FIELD CONSISTING OF WELLS PUMPED THROUGH A SINGLE HEADER AND LITTLE INDIVIDUAL WELL DATA EXISTS) Site Type:

DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE Data Reliability:

Water Use

Site Use WITHDRAWAL OF WATER

Primary:

Secondary: Tertiary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump: information provided o Z Construction:

No information provided Hole: No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

information provided $\stackrel{\circ}{\mathsf{N}}$ Owner: No information provided Other Identifier: Other Data Available: No information provided

information provided S Z Site Visits: No information provided Field Water-quality: No information provided Geophysical Logs:

No information provided Networks:

No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquifers: s 51336. 1 by: Map coordinate Local Well Number:

405808072421301

USGS Site ID:

112GLCLU SUFFOLK

205 ft .1 ft

Date Established: Primary Aquifer:

Map Scale:

County:

Well Depth:

Accuracy:

Hydrologic Unit:

Site location mapped

SH3108 9270 USGS Source Map Name: Source Agency:

Aquifer Type:

Well Construction Date: Hole Depth:

120.0 ft Altitude Land Surface:

GROUND WATER OTHER THAN SPRING Topographic Setting: Depth Data Source: Significant Remark: Station Type:

Ground-water Site Type: WELL, FOR SINGLE WELLS O'THEN WELL, FOR SINGLE WELLS O'THER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE Data Reliability:

IRRIGATION Site Use TEST Primary:

Secondary: Tertiary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

information provided oN. Hole: No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner: No information provided Other Identifier:

Other Data Available: No information provided

No information provided Site Visits:

No information provided Field Water-quality: No information provided No informat: on provided Geophysical Logs: Networks: No information provided Remarks:

GEOHYDROLGGIC LOGS INFORMATION:

No information provided Geohydrologic Unit: No information provided Aquiters:

-REEVES BEACH WATER SUPP Site location mapped by: Map coordinate Local Well Number:

USGS Source Agency:

Source Map Name: Aquifer Type: Well Construction Date:

405804072424200 USGS Site ID:

SUFFOLK Map Scale: Primary Aquifer: Date Established: County:

Altitude Land Surface: Hole Depth:

Topographic Setting: Depth Data Source: Station Type:

GROUND WATER OTHER THAN SPRING

02030202

Accuracy: Hydrologic Unit: Well Depth:

Significant Remark:

Ground-water Site Type: well, for single wells of the Collector or RANNEY TYPE

Data Reliability:

DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Waler Use

Site Use

Secondary: Primary:

Tertiary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump: information provided Construction:

No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner:

Other Identifier:

No information provided

Other Data Available: No information provided

No information provided Field Water-quality:

No information provided

Site Visits:

No information provided Geophysical Logs: No information provided Networks:

No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquifers: Local Well Number: S 2654, 1 Site location mapped by: Map coordinate

405759072420501

USGS Site ID:

112GLCLU SUFFOLK

140 ft

Date Established: Primary Aquifer:

Map Scale: County:

Well Depth:

Accuracy: Hydrologic Unit:

USGS SJ3110 9 Source Agency: Source Map Name:

98.0 ft Aquifer Type: Well Construction Date: Altitude Land Surface: Hole Depth:

GROUND WATER OTHER THAN SPRING Topographic Setting: Depth Data Source: Station Type: Significant Remark:

Ground-water Site Type: WELL, FOR SINGLE WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Water Use IRRIGATION Site Use WITHDRAWAL OF WATER

Primary: Secondary:

Tertiary:

Type(s) of Data Collected:

None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump: No information provided Construction:

No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided

No information provided Other Identifier:

Other Data Available: No information provided

No information provided Site Visits:

No information provided Field Water-quality:

No information provided Geophysical Logs:

No information provided Networks:

No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit: No information provided Aquifers:

Local Well Number:

405746072430801

USGS Site ID:

112GLCLU SUFFOLK

> Date Established: Primary Aquifer:

Map Scale:

County:

Well Depth:

Accuracy:

133 ft .1 ft

Hydrologic Unit:

Local Well Number: S 527.1 Site location mapped by: Map ccordinate

USGS SH3049 9269 Source Agency:

Source Map Name: Aquifer Type:

Well Construction Date: Hole Depth:

100.0 ft Altitude Land Surface: Topographic Setting:

GROUND WATER OTHER THAN SPRING Station Type: Significant Remark: Depth Data Source:

Ground-water Site Type: WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Water Use

Site Use WITHDRAWAL OF WATER Primary:

Secondary: Tertiary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner:

No information provided Other Identifier:

Other Data Available: No information provided

information provided Site Visits:

No information provided Field Water-quality:

No information provided No information provided Networks:

Geophysical Logs:

No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquifers:

Local Well Number: S 4271. 1 Site location mapped by: Map coordinate Local Well Number:

USGS SJ3050 Source Agency: Source Map Name:

Aquifer Type: Well Construction Date: Hole Depth:

405743072425702 USGS Site ID:

SUFFOLK Map Scale: County:

105 ft Primary Aquifer: Date Established: Well Depth:

112GLCLU

100.3 ft Altitude Land Surface: Topographic Setting:

.l ft

Hydrologic Unit: Accuracy:

GROUND WATER OTHER THAN SPRING Significant Remark: Depth Data Source: Station Type:

Ground-water Site Type: WELL, FOR SINGLE WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY,

Site Use OBSERVATION

Secondary: Primary:

Tertiary:

Water Use UNUSED

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

No information provided

Hole:

information provided oN. Openings:

DISCHARGE INFORMATION:

No information provided

MISCRELLANEOUS INFORMATION:

No information provided Owner:

No information provided Other Identifier:

Other Data Available: No information provided

No information provided Field Water-quality:

information provided

o Z

Site Visits:

No information provided Geophysical Logs:

information provided o_N Networks:

No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit: No information provided Aquifers:

Local Well Number: S 1215. 1 Site location mapped by: Map coordinate

405743072425901

USGS Site ID:

112GLCLU SUFFOLK

> Date Established: Primary Aquifer:

Map Scale:

County:

Well Depth:

Accuracy:

Hydrologic Unit:

114 ft .1 ft

Source Agency: Source Map Name:

USGS SJ3050 9263 Well Construction Date: Aquifer Type: Hole Depth:

95.0 ft Altitude Land Surface:

Topographic Setting: Depth Data Source: Station Type:

Significant Remark:

GROUND WATER OTHER THAN SPRING

Ground-water Site Type: WELL, FOR SINGLE WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE Water Use Site Use

IRRIGATION

WITHDRAWAL OF WATER

Secondary: Tertiary: Primary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

No information provided

Hole:

information provided ON. Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner: information provided οN Other Identifier:

Other Data Available: No information provided

No information provided Site Visits: No information provided Field Water-quality:

No information provided Geophysical Logs: No information provided Networks:

No information provided

GEOHYDROLOGIC LOGS INFORMATION:

Remarks:

No information provided Geohydrologic Unit:

No information provided Aquifers:

405743072434201

USGS Site ID:

112GLCLU SUFFOLK

> Date Established: Primary Aquifer:

Map Scale: County:

Well Depth:

172 ft .1 ft

Accuracy: Hydrologic Unit:

Local Well Number: S 4048.1 Site location mapped by: Map coordinate

USGS SH3019 9263 Well Construction Date: Source Agency: Source Map Name: Aquifer Type:

105.0 ft Altitude Land Surface: Topographic Setting:

Hole Depth:

GROUND WATER OTHER THAN SPRING Significant Remark: Depth Data Source: Station Type:

Ground-water Site Type:

WELL, FOR SINGLE WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Site Use WITHDRAWAL OF WATER Primary:

Secondary: Tertiary:

Water Use IRRIGATION

Type(s) of Data Collected:

None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

No information provided Hole: No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided

No information provided Other Identifier:

Other Data Available: No information provided

No information provided Site Visits:

No information provided Field Water-quality:

No information provided

Geophysical Logs:

No information provided Networks:

Remarks:

No information provided

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquiters:

Local Well Number: S 1838. i Site location mapped by: Map coordinate Local Well Number:

USGS SJ3030 9269

Source Agency: Source Map Name: Aquifer Type:

Well Construction Date:

Hole Depth:

100.0 ft Altitude Land Surface:

405741072431701 USGS Site ID:

112GLCLU SUFFOLK Map Scale: County:

133 ft Primary Aguifer: Date Established: Well Depth:

1 ft Accuracy: Hydrologic Unit:

Topographic Setting: Depth Data Source:

Station Type: Significant Remark:

GROUND WATER OTHER THAN SPRING

Ground-water Site Type: WELL, FOR SINGLE WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Water Use IRRIGATION

Site Use WITHDRAWAL OF WATER

Secondary: Tertiary:

Primary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

No information provided Hole:

information provided o N Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner:

No information provided Other Identifier:

Other Data Available: No information provided

No information provided Site Visits:

No information provided Field Water-quality: No information provided Geophysical Logs:

No information provided Networks: No information provided Remarks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquifers:

405712072423101

USGS Site ID:

112GLCLU FUFFOLK

Map Scale: County:

130 ft 1 -

Date Established: Well Depth: Primary Aquifer:

Accuracy: Hydrologic Unit:

Local Well Number: S 8025. 1 Site location mapped by: Map coordinate

Source Agency: Source Map Name:

SJ3065 9269

19490930 Aquifer Type: Well Construction Date:

85.0 ft Altitude Land Surface: Hole Depth:

Topographic Setting: Depth Data Source:

GROUND WATER OTHER THAN SPRING Significant Remark: Station Type:

Ground-water Site Type: WELL, FOR SINGLE WELLS OTHER THAN WELLS OF THE COLLECTOR OR RANNEY TYPE

Data Reliability:

DATA HAVE NOT BEEN FIELD CHECKED BY THE REPORTING AGENCY, BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE

Primary:

IRRIGATION Water Use Site Use WITHDRAWAL OF WATER Secondary:

Tertiary:

Type(s) of Data Collected: WATER QUALITY--INTERMITTENT (Active data-collection)

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner:

No information provided Other Identifier:

Other Data Available: No information provided

No information provided Site Visits:

No information provided

Field Water-quality:

No information provided Geophysical Logs:

No information provided Networks:

GEOHYDROLOGIC LOGS INFORMATION:

Remarks:

No information provided

No information provided Geohydrologic Unit:

No information provided Aquifers:

405656072431101

USGS Site ID:

112GLCLU SUFFOLK

> Primary Aquifer: Date Established:

Map Scale: County:

££

Accuracy: Hydrologic Unit:

Well Depth:

Local Well Number: S 73892. 1 Site location mapped by: Map coordinate

SJ3026 9269 nsgs Well Construction Date: Altitude Land Surface: Source Agency: Source Map Name: Aquifer Type: Hole Depth:

GROUND WATER OTHER THAN SPRING Significant Remark: Station Type:

Topographic Setting:

Depth Data Source:

Ground-water Site Type: WELL, FOR SINGLE WELLS OF THE COLLECTOR OR RANNEY TYPE

BUT THE REPORTING AGENCY CONSIDERS THE DATA RELIABLE Data Reliability: DATA HAVE NOT BEEN FIELD CHECKED BY THE REFORTING AGENCY,

Water Use

Site Use TEST

Secondary: Primary:

Tertiary:

Type(s) of Data Collected: None identified

Instruments at Site:

CONSTRUCTION INFORMATION:

No information provided Lift and Major Pump:

No information provided Construction:

No information provided Hole:

No information provided Openings:

DISCHARGE INFORMATION:

No information provided

MISCELLANEOUS INFORMATION:

No information provided Owner:

No information provided Other Identifier:

Other Data Available: No information provided

No information provided Site Visits:

No information provided Field Water-quality:

No information provided Geophysical Logs:

No information provided Remarks:

No information provided

Networks:

GEOHYDROLOGIC LOGS INFORMATION:

No information provided Geohydrologic Unit:

No information provided Aquifers:

Long Island Wells over 45 gal/min: Source: NYS DEC

Located by: LATITUDE/LONGITUDE COURDINATE

No mapped wells were identified

Wells possibly in search area based on owner address information (not mapped):

Uniform Procedures Number: Zip: 11933 1996 Pumpage: 345 Remarks: City: CALVERTON, N.Y. Name: SUFFOLK CEMENT 1995 Pumpage: 206 Purpose: WASH Depth: 74 ft Capacity: 240 gal/min Street: BOX 241 Abandoned: No 1994 Pumpage: 132 Expiration Date: Owner: SUFFOLK CEMENT Well Number: S013709 1993 Pumpage: 253 Permit: 1397 Aquifer: UGL

Uniform Procedures Number: zip: Remarks: Name: BAITING HOLLOW C.C. City: RIVERHEAD N.Y. Depth: 249 ft Purpose: GEN Street: P.O. BOX 464 Capacity: 320 gal/min Abandoned: No Expiration Date: Owner: BAITING HOLLOW C.C. Well Number: S023822 Permit: 2367 Aquifer:

1995 Pumpage: None Reported 1996 Pumpage: None Reported Uniform Procedures Number: Zip: 11933 1996 Pumpage: 974 Remarks: City: CALVERTON, N.Y. Name: SUFFOLK CEMENT 1995 Pumpage: 955 Purpose: IND Depth: 60 ft 1994 Pumpage: None Reported Street: BOX 241 Capacity: 70 gal/min Abandoned: No 1994 Pumpage: 1187 Expiration Date: 1993 Pumpage: None Reported Owner: SUFFOLK CEMENT Well Number: S048469 1993 Pumpage: 263 Permit: 2931 Aquifer: UGL

1996 Pumpage: None Reported Uniform Procedures Number: Remarks: City: RIVERHEAD, N.Y. Name: HOLIDAY INN 1995 Fumpage: None Reported Furpose: DOM Depth: 59 ft 1994 Pumpage: None Reported Capacity: 150 gal/min Street: BOX 883 Abandoned: No Expiration Date: Well Number: S053167 Owner: HOLIDAY INN 1993 Pumpage: 0 Permit: 3008 Aquifer: UGL

1996 Pumpage: None Reported Uniform Procedures Number: Zip: 11901 Remarks: City: RIVERHEAD, NEW YORK Name: RIVERHEAD TERMINAL 1995 Pumpage: 4608 Purpose: FIRE Depth: 0 ft Street: P.O. BOX 111 Capacity: 0 gal/min Abandoned: No 1994 Pumpage: 3859 Expiration Date: CORPORATION Well Number: S053221 1993 Pumpage: 3888 Owner: TOSCO Permit: 3007 Aquifer: UGL

Uniform Procedures Number: 10-88-0002 Zip: 11933 City: CALVERTON, N.Y. Name: WARNER NURSERY Purpose: IRR Expiration Date: 03/08/1998 Street: SOUND AVE Abandoned: No Owner: WARNER, AUSTIN H., JR. Well Number: S090288 Permit: 3630

1996 Pumpage: 7755 Remarks: Name: SCHMITT, PHILIP 1995 Pumpage: 13260 Depth: 130 ft Capacity: 500 gal/min 1994 Pumpage: 9455 Abandoned: No Well Number: S096578 1993 Fumpage: 13762 Aquifer: UGL

1996 Pumpage: 19292 Remarks: 1995 Pumpage: 15857 Depth: 155 ft Capacity: 800 gal/min 1994 Pumpage: None Reported 1993 Pumpage: None Reported Aquifer: UGL

Purpose: IRRIG

Street: BOX 25, ROANOKE AVENUE

Owner: SCHMITT, PHILIP A.

Permit: 3642

Expiration Date: 04/08/1998

Uniform Procedures Number: 10-88-0269

Zip: 11901

City: RIVERHEAD, NEW YORK

Uniform Procedures Number: 10-87-0701 Remarks: *WILL NOT DRILL WELL Zip: 11901 1.996 Pumpage: 0 City: RIVERHEAD, NEW YORK Name: KUJAWSKI AND SONS 1995 Pumpage: None Reported Purpose: IRR Depth: 0 ft Street: 143 SOUND AVENUE Expiration Date: 03/02/1998 Capacity: 0 gal/min Abandoned: Yes 1994 Pumpage: 0 Owner: KUJAWSKI, JOHN Well Number: XXXXXXX 1993 Pumpage: 0 Permit: 3564

Uniform Procedures Number: 10-87-1527 Zip: 11901 City: RIVERHEAD, NEW YORK Name: SANDY POND GOLF Expiration Date: 11/30/1997 Purpose: IRR/G Street: 26 MILBROOK LANE Abandoned: No Owner: SANDY POND GOLF Well Number: 9999999 Permit: 3595

Aquifer: 1993 Pumpage: 0

Capacity: 0 gal/min 1994 Pumpage: 0

Depth: 0 ft 1995 Pumpage: 6133

Remarks: 1996 Pumpage: 4206

There were 866 wells with no coordinate information in Suffolk County.

Public Supply Wells: Source: NYS DEC

Located by: LATITUDE/LONGITUDE COORDINATE

No mapped wells were identified

Wells with no address or valid coordinate information, in Suffolk County (not mapped):

Abandoned: No	Abandoned: Yes	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No	Abandoned: No							
Owner: SCWA	Owner: RIVERHEAD WATER DIST	Owner: SCMA	Owner: RIVERHEAD WATER DIST	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA	Owner: SCWA								
Well Number: S000075	Well Number: S016256	Well Number: S017241	Well Number: S018762	Well Number: S027070	Well Number: S033922	Well Number: S034894	Well Number: S046235	Well Number: S048194	Well Number: S059941	Well Number: S083096	Number:	Well Number: S089754	Number:	Well Number: S093519	Well Number: S093701	Well Number: S093702	Well Number: S094274	Number:	Well Number: S096352	Number:	Well Number: S098322	Well Number: S098350	Well Number: S098721	Number:	Well Number: S099271	Number:	Well Number: S099960	Number:	Well Number: S100453	Well Number: S100608	Number:	Well Number: S101321	Well Number: S101364	Number:	Well Number: S106977	Well Number: S106978

Well Registration:

Source: NYS DEC

This well is mapped: Located by: ADDRESS

Well Number: S104550

MAP LOCATION INFORMATION

Site location mapped by: MANUAL MAPPING (3)

Mail Address: HORTON AVENUE, RIVERHEAD Revised Zip Code: 11901 Owner: AQUA LONG FISH FARM

Permit Number: Depth: 100 ft

Driller Registration Number: 1765 Purpose: DOMESTIC

Approval Date for Drilling: 05/24/1994 Remarks:

RIVERHEAD

Well Location: HORTON AVENUE AND SOUND AVENUE,

Revised Street: HORTON AVENUE / SOUND AVENUE

ADDRESS CHANGE INFORMATION

These wells are unmapped and may be located in the search area:

Well Number: S102265

Well Location: 3994 SOUND AVENUE, RIVERHEAD

ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE

Revised Zip Code: 11901 Owner: FETHOVICH, J. Permit Number:

Mail Address: BOX 131, JAMESPORT Driller Registration Number: 241

Purpose: DOMESTIC

Approval Date for Drilling: 01/29/1993

Remarks:

Well Location: SOUND SHORE ROAD, RIVERHEAD

Revised Street: NO CHANGE Owner: MONTAG, MARTIN Revised Zip Code: 11901

ADDRESS CHANGE INFORMATION

Well Number: S102651

Depth:

Permit Number: Depth:

Driller Registration Number: 241 Purpose: DOMESTIC

Mail Address: P.O. BOX 572, UPTON

Approval Date for Drilling: 05/13/1993

Remarks:

Approval Date for Drilling: 08/06/1993

Remarks:

Well Location: 171 SOUND AVENUE, RIVERHEAD

ELM ROAD, CALVERTON Well Location: PINEHURST DRIVE AND

> Revised Street: PINEHURST DRIVE / ELM ROAD Revised Zip Code: 11933

ADDRESS CHANGE INFORMATION

Well Number: S103175

Owner: EAST ISLE Permit Number:

Mail Address: 278 JAMAICA AVENUE, MEDFORD Driller Registration Number: 241 Purpose: DOMESTIC Depth:

Well Number: S103881

ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE

Owner: ENTENMANN, ROBERT Revised Zip Code: 11901 Permit Number: Depth:

ADDRESS CHANGE INFORMATION

Well Number: S103996

Mail Address: 171 SOUND AVENUE, RIVERHEAD Driller Registration Number: 1457

Approval Date for Drilling: 11/22/1993

Remarks:

Purpose: DOMESTIC

RIVERHEAD Well Location: 1921 ROANOKE AVENUE,

Street: No CHANGE Revised Zip Code: 11901 Revised

Owner: MUMA, EDITH Permit Number: Depth: 80 ft

Mail Address: 547 EAST MAIN STREET, RIVERHEAD Driller Registration Number: 10 Purpose: DOMESTIC

Street: OSBOURNE AVENUE / HORTONS AVENUE ADDRESS CHANGE INFORMATION Revised Zip Code: 11901 Revised

Well Number: S104104

Mail Address: P.O. BOX 1010, Driller Registration Number: Purpose: DOMESTIC Owner: DOUBRAVE, DERRICK Permit Number: Depth: 105 ft Well Location: 171 SOUND AVENUE,

Well Number: S104142

ADDRESS CHANGE INFORMATION Street: NO CHANGE Zip Code: 11901 Revised Revised

Driller Registration Number: 1457 Purpose: DOMESTIC Owner: ENTENMANN, ROBERT Permit Number: 90 ft

ADDRESS CHANGE INFORMATION Street: NO CHANGE Well Number: S104712 Revised

Depth:

Revised Zip Code: 11933 Permit Number:

Mail Address: P.O. BOX 610, CALVERTON Driller Registration Number: 1556 Purpose: MONITOR Owner: WATERWAYS AT BAY POINTE Depth: 27 ft

Well Number: S105242

ADDRESS CHANGE INFORMATION Street: NO CHANGE Owner: HELLERMAN, GLENN Revised Zip Code: 11933 Revised

Permit Number: Depth: 240 ft

ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE Well Number: S105439T

DISTRICT Owner: RIVERHEAD WATER Permit Number: WSA9065 Revised Zip Code: 11901

500 ft Depth:

ADDRESS CHANGE INFORMATION Street: NO CHANGE Revised Zip Code: 11901 Well Number: S106757 Revised

Permit Number Owner: GORE

Approval Date for Drilling: 01/07/1994 Remarks:

Well Location: OSBOURNE AVENUE AND HORTONS AVENUE, RIVERHEAD

Approval Date for Drilling: 02/25/1994 Remarks: AQUEBOGUE

RIVERHEAD

RIVERHEAD Mail Address: 171 SOUND AVENUE,

Approval Date for Drilling: 03/17/1994 Remarks:

Well Location: WATERWAYS STP, CALVEFTON

Well Location: FARM LAND, CALVERTON

Approval Date for Drilling: 06/16/1994 Remarks:

Mail Address: 2250 SIGSBEE ROAD, MATTITUCK Driller Registration Number: 10 Purpose: DOMESTIC

Approval Date for Drilling: 09/01/1994

Remarks: *CANCELLED

Location: WELL 7-3, RIVERHEAD We11

RIVERHEAD Mail Address: 11035 PULASKI STREET,

Approval Date for Drilling: 09/22/1994 Remarks: Driller Registration Number: 1299 Purpose: TEST

93 OLD WESTHAMPTON ROAD, RIVERHEAD Well Location: Mail Address: 93 OLD WESTHAMPTON ROAD, RIVERHEAD

Approval Date for Drilling: 06/01/1995 Driller Registration Number: 1674

Remarks: Purpose: DOMESTIC Depth: 50 ft

ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE Revised Zip Code: 11933 Well Number: S106816 Owner: GUMBS, C. Permit Number:

Well Number: S108348

50 ft

Depth:

Owner: RIVERHEAD WATER DISTRICT ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE Revised Zip Code: 11901

Permit Number: WSA9370 300 ft Depth:

ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE Revised Zip Code: 11933 Owner: WA'TSON, KAREN Well Number: S108499

Permit Number:

Depth: 50 ft

Owner: MANZI CONSTRUCTION ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE Revised Zip Code: 11933 Well Number: S109507

Permit Number: Depth: 100 ft

ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE Revised Zip Code: 11901 Well Number: S109584

Owner: LEBANON CHEMICAL CORPORATION Permit Number: Depth: 80 ft

ADDRESS CHANGE INFORMATION Revised Street: NO CHANGE Well Number: S110325

Revised Zip Code: 11901 Owner: HUNG SUN CHUL Number: Permit

Purpose: IRRIGATION Depth: 63 ft

Well Location: 314 STARR BOULEVARD, CALVERTON

Mail Address: 314 STARR BOULEVARD, CALVERTON Driller Registration Number: 241 Purpose: DOMESTIC

Remarks:

Approval Date for Drilling: 06/08/1995

Well Location: WELL #1, RIVERHEAD

Mail Address: 200 HOWELL AVENUE, RIVERHEAD

Approval Date for Urilling: 03/26/1996 Remarks: *REPLACESORIG.WELL#1 Driller Registration Number: 5
Purpose: PUBLIC SUPPLY

Well Location: 280 PARKWAY DRIVE, CALVERTON

Mail Address: 280 PARKWAY DRIVE, CALVERTON Driller Registration Number: 241

Approval Date for Drilling: 04/15/1996

Remarks:

Purpose: DOMESTIC

Well Location: STARR BOULEVARD, CALVERTON

ROCKY POINT Mail Address: 586 ROUTE 25A,

Driller Registration Number: 241 Purpose: DOMESTIC

Approval Date for Drilling: 10/23/1996 Remarks:

Well Location: 4756 SOUND AVENUE, RIVERHEAD

RIVERHEAD Mail Address: 4756 SOUND AVENUE,

Approval Date for Drilling: 11/01/1996 Remarks: Driller Registration Number: 10 Purpose: DOMESTIC

Well Location: HORTON AVENUE, RIVERHEAD

Approval Date for Drilling: 04/28/1997 Mail Address: 61 EVERGREEN AVENUE, EAST MORICHES Driller Registration Number: 1389

Remarks:

These wells are unmapped and may be located in the search area:

UNKNOMN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOMN UNKNOWN UNKNOMN UNKNOWN UNKNOMN Zip Code: UZip Code: U Zip Code: Revised RED CREEK CIRCLE, RED CREEK RIDGE 50 FEET NORTH OF S-28767 LOT #12, OAK ISLAND PARKLAND STP STRATMORE STP STRATMORE STP STRATMORE STP PARKLAND STP PARKLAND STP KNOBHILL STP KNOBHILL STP WELL #7-1 WELL 7-3 Location: Well Well Well Well We11 Well Well Well Well Well Well Well S103447T S104353 S104529 S104530 S104531 S104532 S104533 S104534 \$104535 \$104536 \$105439 8034272 S107781 Number: Well Well

Suffolk County Water Authority Wells:

Located by: STATE PLANE COORDINATE

None Identified

Suffolk County Water Authority Wells with MTBE contamination:

None Identified

Sample Freedom of Information Request Letters

Freedom of Information Officer U. S. Environmental Protection Agency 290 Broadway New York, New York 10007-1866

Greetings:

Under the provision of the Freedom of Information Act, 5 U. S. C. 552, I am requesting access to certain information available from your agency. I would like to receive information regarding the known or potential environmental and public health hazards posed by the toxic waste dump/wastewater discharge/chemical storage facility/solid waste site/air discharge/petroleum storage facility/toxic spill located at _____. The permit/identification number of the facility/site is ____. Specifically, I would like to obtain:

- A summary of any record of decision regarding the investigation or clean up of the site;
- Notification of the lead agency that is primarily responsible for investigating and cleaning up the site;
- Notification of any legal action involving the site;
- Detailed site reports, monitoring data, regulatory non-compliance notices, documents or studies regarding any pollution problems at this site, and how I may obtain copies of them or review them in person.

If there are any fees imposed for searching or copying the materials I have requested, please inform me of that fact <u>before</u> filling this request.

I would appreciate your handling this request as quickly as possible. However, if you do not grant it within 10 working days, as the law stipulates, I will deem it denied.

Thank you for your attention. I await your reply.

Records Access Officer
New York State
Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233

Greetings:

I am writing pursuant to the New York Freedom of Information Law (Article 6, Public Officers Law) to request access to certain information available from your agency. I would like to receive information regarding the known or potential environmental and public health hazards posed by the toxic waste dump/wastewater discharge/chemical storage facility/solid waste site/air discharge/petroleum storage facility/toxic spill located at _____ The permit/identification number of the facility/site is ____. Specifically, I would like to obtain:

- A summary of any record of decision regarding the investigation or clean up of the site;
- Notification of the lead agency that is primarily responsible for investigating and cleaning up the site;
- Notification of any legal action involving the site;
- Detailed site reports, monitoring data, regulatory non-compliance notices, documents or studies regarding any pollution problems at this site, and how I may obtain copies of them or review them in person.

If there are any fees imposed for searching or copying the materials I have requested, please inform me of that fact <u>before</u> filling this request.

I would appreciate it if you would process this request as quickly as possible. As I am sure you know, Section 89 (3) of the Freedom of Information law requires that you make the information I have requested available or furnish a written denial within five business days. If you do choose to deny access, I would like to know specifically what is being denied and the legal basis, under section 87(2), for such a denial.

Thank you for your attention. I await your reply.

Freedom of Information request denials can be appealed. If your New York Freedom of Information Law appeal is denied, please contact: The Committee on Open Government, 162 Washington, Avenue, Albany, NY 12231

APPENDIX D NYSDEC WELL COMPLETION REPORTS

URIGINAL TO COMMISSION

Well No. Jana

CONTROL COMMISSION RECEIVED

County......Mt. Hallie..... W.S.A. 3410 State of New York LOG Department of Conservation Ground Surf., El.....ft. above a Division of Water Power and Control COMPLETION REPORT- LONG ISLAND WELL Top of Well Owner 102 von Park Beach Co. Inc. Address 316 Sound ave., htverhead, L.I., h.Y. Sand Location of well Re-ves Park, Biverhead, L. I. 12' from top of pipe. Clay and CASINGS: Diameter 6 in in in in in. stones Length ft. ft. ft. 31. Sealing Casings removed Clean Cook WW Red Brass 10 of slot 10 8 Overall #20slot. sand and Diameter 5-3/4 in in in in in. gravel Length.....ft.ft.ft. 1341 Pumping Test: Date 7/19/58 Test or permanent pump? Perm. Fine muddy Maximum Discharge 88 gallons per minute sand Static level prior to test.......116....ft......6...........in, below top of casing Level during Max. Pumping. 120 ft 6 in below top of casing 141' Maximum Drawdown 4. ft. Clean Approx. time of return to normal level after cessation At bnce course of pumping hours minutes sand an gravel. PUMP INSTALLED: TypelbmersibleMake Red Jacket Model No.500C4-12E 152 Motive power Elec. Make Franklin H.P. 5 Capacity......g.p.m. against)ft. of discharge head Medium course sand li gravel. SUCTION LINE DROP LINE: Diameter _____in. Length 132 ft. ft. 1641 Use of water Public Work started 6/12/58. Completed 7/19/58....... Date 7/26/58 DrillerLoseph J. Kreiger, Inc. Note: Show log of well—materials encountered, with depth below gwater POWER AND surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of injuly 3 0 1958 verest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports-pp. 5-7.

,	SKETCH	OF LOCAT	ION			
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Locate wel	l with respect to a distance from (t least two st corner and fr	treets or roa cont of lot.	ds, sh	nowing	
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ORIGINAL—TO COMMISSION

County Jafata !!

P BESEN

11514364

State of New York Department of Conservation Division of Water Resources Well No 2/6/42

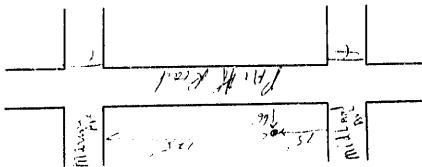
Ground Surf., El......ft. above $\overline{\Lambda}$ft. COMPLETION REPORT-LONG ISLAND WELL Top of Well Formerly Reever Pack Brack to Owner Joseph J Kreiger inc Address 261 W. MAIR ST RIVERhead Location of well Regres Park Beach CASINGS: Diameter in in in in. Length......ft.ft.ft. Sealing Casings removed Screens: Make Cock WW Openings # 20 Diameter 5 3/4 in in in in in. Length ft. ft. ft. Pumping Test: Date 4/1 /66 Test or permanent pump? Line of Maximum Discharge / 2.0 gallons per minute Maximum Drawdown 62 ft. Approx. time of return to normal level after cessation of pumping at one hours minutes Type Su P. Make Rad JACK & Model No. 1506 F4

Motive power Electro Make Franklin H.P. 15 PUMP INSTALLED: SUGTION LINE: Drop L: ": APR 14 1966 **RECEIVED** bal 11966 Completed april Driller... License No.. Note: Show log of well-materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports--pp. 5-7.

SKETCH OF LOCATION

a e



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

_	_
	-
-	_
•	

Well Number 5-104550

COMPLETION REPORT—LONG ISLAND WELL

OWNER .		*LOG
agua Lang Fish Farm	Ground Surfac	:е
HOTTON avenue Rivernead IN 11961	el. <u>35</u>	ft. above s
LOCATION OF WELL		ft.
50 me		
DEPTH OF WELL BELOW SURFACE DEPTH TO GROUNDWATER FROM SURFACE	TOP	OF WELL
105		
CASINGS		
DIAMETER 10. In. In. In.	$A \cdots A$	0.5
LENGTH		1.
	DVC 1	lour
SEALING CASINGS REMOVED	pipel	
SCREENS	-	!
MAKE OPENINGS, A	1	
Johnson # 18 516+		/, 1
DIAMETER		5-3
4 in. in. In. in.	-	(yra)
LENGTH 4 tt. tt. tt.		5a n
DEPTH TO TOP FROM TOP OF CASING	7	clai
10		Triu
PUMPING TEST	- '	
DATE TEST OR PERMANENT PUMP?		
DURATION OF TEST MAXIMUM DISCHARGE	1	30 -
days 2 hours 35 gailons per min.		5ar
STATIC LEVEL PRIOR TO TEST in. below top of casing in. below top of casing		1000
MAXIMUM DRAWDOWN Approximate time of return to normal level after cessation of pumpin	0	910
5 ft. hours 3 min.		
PUMP INSTALLED TYPE MAKE MODEL NUMBER MODEL NUMBER	-	ĺ
SUPPERSIDIC CUITS MODEL NUMBER 168 2010		
MOTIVE POWER MAKE / H.P.	1	
electric frunklin 2		80
CAPACITY Z C g.p.m. against Z C C ft. of discharge head		
NUMBER OF BOM S OR STACES	-	100
12. 300 ft. of total head		+1
DROP LINE SUCTION LINE		50
DIAMETER DIAMETER in.		
LENGTH	-	
€5 n. n.		4"x 4"
METHOD OF DRILLING USE OF WATER		Sva
rotary cable tool other		Screen
WORK STARTED COMPLETED		JUILLI
DATE DRILLER REGISTRATION NO.		
6-21-94 Brian Schieicher 1765		
	.	pv
 NOTE: Show log of well materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe 		× /11

SKETCH OF LOCATION

Z S	[] awell	
Sound	citon avenue	
showing distance from	espect to at least two st corner and front of lot. Show North Point WHICH THE PROJECT I	
Nassau County: Hempstead	North Hempstead	Oyster Bay
Suffolk County: Babylon Huntington Shelter Island Southold	☐ Brookhaven ☐ Islip ☐ Smithtown	☐ East Hampton ☐ Riverhead ☐ Southampton

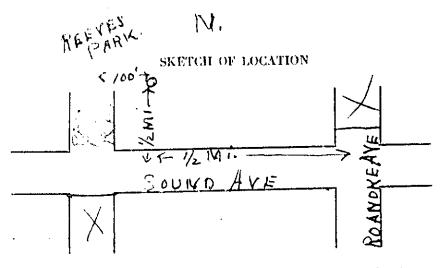
County Suffolk

State of New York

(W.S.A.#1409)No.S.2010 (on preliminary report)

Department of Conservation

	Division of Water Power and Control	(ou thenumers	1490717
LOG Ground Surf	COMPLETION REPORT-LONG ISLAND WELLS	C.t.J FOG	
Ground Such	and the second s		-n9
Sand &	El. ft.		
gravel with	Owner Edward C. Griffin & Son, Inc.		
lumps of clay	Address Port Jefferson, N.Y. N.W.cor.		_
731	N.W.COr.	Woonlawn	<u>n.</u>
Fine	Location of well Reeves Park, Riverhead, N.Y. and Hil		•
sand 83'	Depth fe	et	
Coarse	Depth to water: First 104,06 ft.; Final		
gravel &	Depth to water: First		
stones	Casinos:		
Fine Sand	Diameter 6ininini		
with streaks	Length 152 ft. ft. ft.	t I	
o lay	Screens: Type Slotted Brass, Bailed in	-	- +
	Screens: Type Stotted Brass, Balled III Diameter 6 — in. — in. — in. Length 10 ft. ft. Depth to top 152	n. Sali	uily
į	Length 10 ft	it. 6/2/11-	10 PPM
	Depth to top	it. 117773	•
	Fumping Test: Date		•
Water	Duretion of Test	1 1	
level	Maximum Discharge gallons per minu	te	
104-00-	Static Level Prior to Test feet inch	63	
	Level during Max. Pumping fcet inch	es	
	Maximum Drawdown feet incl	ies	
112'	Approx, time of return to normal level after cessation		
Clay &	of pumping hours minu	es	
118'	Sottom of Column Pump Installed:		
C≆##2n ⊱ ქ	Type Deep Well Turbine	. !	
Coarse 3	Motive namer Electric		
Sand & Gravel	Capacity 40 g.p.	m.	
126'			
Hard sandy	Drop Line: 3in.	in.	
formation with clay	Diameterin. Length 110 ft.	ft.	
145'	Public Supply		1
Clean sand	water Public Supply	•	
for a well,162	Work started June 6, 1940 Completed June 21, 1940		
rail	July 27, 1940 Driller John Timmer		
piecs	License No. 16		+
Take off &'		STATE OF N	1
for sit.	NOTE: Show log of well-materials encountered, with depths below gro	արագենը KIPOV ina	WER AND
000	surface, water-bearing beds, casings, screens, pump, additional pump tests and other matters of interest.	AUG 8	1940
)	NTROI (SHIM
	See Instructions as to Well Drillers' Licenses and Reports-pp.	RECEI	VED
!	N_		<u> </u>



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

Alonole Content (Salinity) in parta per million 1948 - 22 ppm - 7/29/48 1949 - 20 ppm - 9/19/49 1950 - 18 ppm - 7/13/50

ORIGINAL—TO COMMISSION

County......

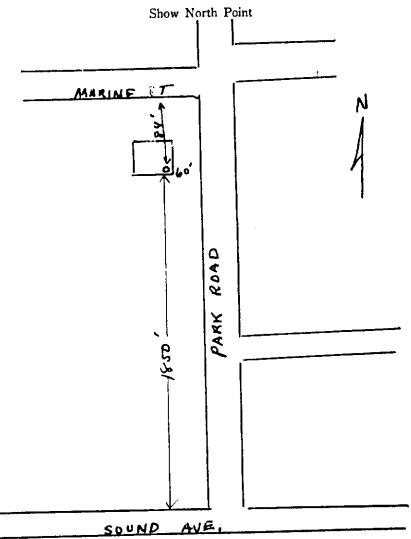
State of New York

Well No. 3-12150 (on preliminary report)

LOG

	Department of Conservation	LOG
	Division of Water Power and Control	., Elft. above se
	COMPLETION REPORT—LONG ISLAND WELL	n ft.
		op of Well
-		
	Owner Rowyed rank benah bo. Inc.	l sond
	Address CROAD AV. OREONLAND, hele in Italian	Sand
	Location of welfleeves Fark Beach, Tiverhead, L. I.	11
— MOT4:	Depth of well below surface	Red clay
All measurement start from top	Depth to ground water from surface	13
~ ეf მ" დiდe @'	Casings:	
pelow ground.	Diameter	Stones
	Length 151 15" ftftft.	16
	Sealing	123
	Casings removed	Clay
, <u></u>	-	ith
	Screens: Make Took Red Brass Openings 16 Slot	gravel
	Diameter 5-3/4 in in in in ft	mixed 26
181 °	Length 15 of \$1.2 ft. ft. ft. ft. ft. Depth to top from top of casing 14912" ft.	120
	Depth to top from top of casing	Sani
	Pumping Test: Date Une 30, 1954. Test or permanent pump? Perm.	2
	Duration of Test days 4 hours	ravel
	Maximum Discharge	133
	Chasis level prior to test 111 ft	
	Level during Max Pumping 11.7 ft	Clay
	Maximum Drawdown	
	Approx. time of return to normal level after cessation At Once	135
	of pumpinghoursminutes	Fine
	Type 10D33	muddy
	Pump Installed: Shortypaible MakeClaton- ark (Rada) Model No. 810	sand
	Motive power less tric Make H.P. 3	
	Capacityg.p.m. against \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	150
	No. bowls or stages. 10 226 ft. of total head	Sand and
	No. bowls or stages	Gravel
	Drop Line: Suction Line:	Clean.
	Diameter 2 in.	
~~ ₁₁	Length	168 18"
	Use of water Public snauly	
	Work started	
- Au	Date	.c.
	10 1 3 1816 t	AND TANKS TO THE TOTAL TO THE TANKS THE T
-	More: Show log of well—materials encountered, with depth below ground surface,	HOWER ALL
	water bearing beds and water levels in each, casings, screens, pump	-1 10
	additional pumping tests and other matters of interest. Describe repair job.	1750
•••	Can Instructions a Well Drillers Licenses and Reports—pp. 471	
	the first care with	10AA655.30

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.



APPENDIX E DRILLING AND WELL COMPLETION LOGS: MW-4

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.



32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934

(631) 874-2112 FAX (631) 874-4547

DRILLER'S LOGS

Cornell Research Lab Riverhead, NY

July 2002

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC. DRILLER'S LOGS

MW-#4 page: 1 of 1

DATE: July 8, 2002

SITE: Cornell Research Lab

Riverhead, NY

DEPTH DRILLED: 92 feet

CASING INSTALLED: 75 feet PVC

CASING DIAMETER: 4

inches

DRILLING METHOD: Hollow Stem Auger 6 5/8

CONSULTANT: H2M Group

Melville, New York

DEPTH TO WATER: 80

80 feet

SCREEN INSTALLED: 15

15 feet PVC

SLOT SIZE:

0.010 inches

WELL GROUTED:

No

ומ	RILLEF	t :	ı	C. Pedersen		HELPER:	J. Palmer
		EPI	H. TO	Recovery	BLOWS / 6 INCHES	SAN	MPLE DESCRIPTION
		ft	5 ft	Hand		Brown sand/lo	pamy, medium to fine, 5% gravel
	5	ft	25 ft	Auger Cuttings		Light tan sand	d, coarse to medium, 20% gravel
	25	ft	50 ft	Auger Cuttings			nd, coarse to medium, 5% gravel
	50	ft	75 ft	Auger Cuttings			ite sand, coarse to medium, 5% gravel
	75	ft	92 ft	Auger Cuttings		Light tan/wh	nite sand, coarse to medium, 5% gravel, wet

NE NO. MW-4	ter Env. Servi	INSTALLATION DATE: 7/8/02 PE LOCATION: Ar per April WAYDROGEOLOGIST: CJF	·/ 2002 VVOYK 1/AN
		DRILLING METHOD	HSA_
	-	PAOLOCK G NUMBER	N/A
ROUND ELEVATION		PROTECTIVE CASING	OIAMETER (I.D.) LENGTH
		THICKNESS OF SURFACE SEAL/CONCRETE	Apmx. 36"
4	4	INDICATE ALL SCALE SHOWING DEPTH THICKNESS AND TYPE WATERIAL OF MANUFACTURE AND	PVC 4"
! !		INSIDE DIAMETER OF RISER PAPE	bentonite gnut (comen
	<u> </u>	TYPE OF SUBSURFACE SEAL/GROUT OEPTH OF BOTTOM OF RISER	75'
		TYPE OF POINT OR SCREEN (PIPE SIZE FELESCOPING) AND MANUFACTURE	Schelle 40 PV
		SCREEN CAGE OR SIZE OF OPENINGS	0.010" PVE 4"
!		MATERIAL OF MANUFACTURE AND DIAMETER OF WELLPOINT/SCREEN	
		TYPE OF BACKFUL	Marie No.2 Well
		DEPTH OF BOTTOM OF SCREEN	90'

APPENDIX F CHAIN OF CUSTUDY FORMS

Š. HZM LABS, INC.

EXTERNAL CHAIN OF CUSTODY

5563

575 Broad Hollow Rd, Melville, NY 11747-5076

 COC record present & complete upon sample receipt: Y or N Properly preserved: Y or N
 Samples returned to lab ____ Hrs from collection. 1. Shipped or Hand Delivered Airbill# REMARKS 2. Unbroken on outer package: Y or N Project Contact: 2. Ambient or chilled 3. Received in good condition: Y or N 1. Present on outer package: Y or N Phone Number H2M SDG NO: LABORATORY USE ONLY COC Tape was: LAB I.D. NO Discrepancies Between COC Record? Y or N Sample Labels and NOTES: Explain: CN Metal ANALYSIS REQUESTED Time Time Time Date Date 4-67 ьсв Ased ORGANIC ANB AOV CLIENT Confainers N Describtion Received by: (Signature) Received by: (Signature) Total No. of Received by: (Signature) Received by: (Signature) Sample Container Salar Sa - 3 fr Sha Con 00 Time Time Time Time FIELD I.D. 11 12.4.24 Tel: (516) 694-3040 Fax: (516) 420-8436 Date Date Date Date Section Const SAMPLERS: (signature)/Client PROJECT NAME/NUMBER MATRIX 1.12 TURNAROUND TIME: Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) マングです DELIVERABLES: TIME \$4.5° DATÉ' 1 1

HZM LABS, INC.

EXTERNAL CHAIN OF CUSTODY

5748

№

H2M SDG NO:

575 Broad Hollow Rd, Melville, NY 11747-5076

Tel· (516) 694-3040 Fax: (516) 420-8436	CLIENT:					H2M SDG NO:	
PROJECT NAMENUMBER SAMPLERS: (signettire)/Glient DELIVERABLES:	Sample Container Description	Host viete alde glets	Hoz jar (cha)		NOTES:	Proje	Project Contact: Phone Number: メールがり
TURNAROUND TIME:	ANALY ORGANIC	ANALYSIS REQUESTED	ESTED	INORG.			
DATE TIME MATRIX FIELD I.D.	ا ا			Metal	LAB I.D. NO	. NO.	REMARKS:
Cas the Mount downers in	3	N	-			**	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Made The Cost Last Lower with the har							Color Cast
7402 mil 311 Park from accounting him	N					1	346 J T80.
Jan Market							
Relinquished by. (Signature) Date Time Received by. (Signature)	nature)	Date	96	Discrepa	LABORA Discrepancies Between	LABORATORY USE ONLY Setween Samples were: 1 Shinned or Hand Delivered	Delivered Airbill#
Relinquished by: (Signature) Date Time Received by: (Signature)	nature)	Date	Time	Sample L COC Rec	Sample Labels and COC Record? Yor N	2. Ambient or chilled 3. Received in good condition: Y or N 4. Property preserved: Y or N	7
Relinquished by: (Signature) Date Time Received by: (Signature)	nature)	Date	Time	Lypidali		5. Samples returned to lab Hrs frr. COC Tape was: 1. Present on outer package: Y or N	ab Hrs from collection.
Relinquished by (Signature) Date Time Received by (Signature)	nature)	Date	Time			Unbroken on outer package: Y or N COC record present & complete upon Y or N	 Unbroken on outer package: Y or N COC record present & complete upon sample receipt: Y or N

COC record present & complete upon sample receipt: Y or N Hrs from collection. REMARKS: 2. Unbroken on outer package: Y or N 1382/大 Project Contact: Shipped or Hand Delivered 2. Ambient or chilled Received in good condition: Y or N Phone Number: 1. Present on outer package: Y or N asul/st XI 4. Properly preserved: Yor N. Adula (TO lother Samples returned to lab _ HZM SDG NO: DUR reguired LABORATORY USE ONLY 14 SW 876, - RIPBIAN LAB I.D. NO. Discrepancies Between COC Record? Y or N Sample Labels and Explain: CN Metai ANALYSIS REQUESTED Time Time Time Date Date Date ORGANIC S ANDOR 5762 N N AN8 AOV **CLIENT:** Š. Containers Description N N Received by: (Signature) Total No. of Received by: (Signature) Received by: (Signature Sample Container A. C. C. PROJECT NAME/NUMBER: (6151) TILL CARENDAN TAN HZM LABS, INC. Time Тіте 575 Broad Hollow Rd, Melville, NY 11747-5076 Time Mari FIELD I.D. Tel: (516) 694-3040 Fax: (516) 420-8436 Date Date Date CORN 9501 グーダー アンバル 1-101-1 SAMPLERS: (signature)/Olient MATRIX E V É Š Relinquished by: (Signature) URNAROUND TIME Relinquished by: (Signature) Relinquished by: (Signature) TIME

EXTERNAL CHAIN OF CUSTODY

VOCTABOOA - VOCA VINE 111::1

H2M ABS, INC. 575 Broad Hollow Rd, Melville, NY 11747-5076

EXTERNAL CHAIN OF CUSTODY

5328

<u>%</u>

575 Broad Hollow Rd, Melville, NY 11747-5076	CI IENT.				H2M SDG NO:	Ö.
Tel: (516) 694-3040 Fax: (516) 420-8430	OCIENI.	1	1 1 2 1 1	MOTEO.	0	Droject Contact
PROJECT NAME/NUMBER					•	of contracts
		;			* , *****	せい
		0			14	Phone Number:
	le Co	**************************************	<u>.</u>	-		110011
SAMPLERS: (signature)/Client						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	:S	.)				
	4				35	<u> </u>
					POS TO	ν
	sten	ANALYSIS REQUESTED	ESTED			The Market of the second
TURNAROUND HME:	ORGANIC	SI SI		INORG.	, X	
TIME MATERIAL FIELD ID		Pest Pod		Metal CA LAB I.D. NO	NO.	REMARKS:
TIME MAINTING		7				
	9					
	, and the second					te eri
,		3,7				
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	- mary	-				
The state of the s						
		Ų				
Relinquished by: (Signature)	Received by. (Signature)	Date	Time	LABOR	LABORATORY USE ONLY	L.Y.
				Discrepancies Between	Samples were: 1 Shipped or Hand Delivered	and Delivered Airbill#
a) Date Time	(Sign	Date	Time	Sample Labels and COC Record? Y or N	Ambient or chilled Received in good condition. Y or N	condition: Y or N
100000000000000000000000000000000000000		9	/ lagi	Explain:	4 Properly preserved: Y or N	id: YorN
Relinquished by: (Signature) Date I ime Received	Keceived by: (Signature)		<u> </u>		S. Samples returned to lad this ind	package: Y or N
Retinquished by: (Signature) Date Time Received	Received by: (Signature)	Date	Time		2. Unbroken an oute 3. COC record press	Unbroken on outer package. Y or N COC record present & complete upon sample receipt:
					5	

9350 FIZM LABS, INC. 575 Broad Hollow Rd, Melville, NY 11747-5076

EXTERNAL CHAIN OF CUSTODY

5/3 Broad Hollow No., melyllie, Mr. 1777 Tel: (546) 604,3040 Fax: (516) 420-8436	120-8436	3		CLIENT	Ë						H2M SDG NO:	NO:
GOO GOT NAME AN IMPED							1		-	NOTES:		Project Contact:
PROJECT NAME/NUMBER			Town the other	ontainer escription	· · · · · · · · · · · · · · · · · · ·		-liter gles					Phone Number:
SAMPLERS: (signature)/Client				d 📥		J.			· · · · · · · · · · · · · · · · · · ·	Age of the second		
EIVERABLES:	` .			o. of ners	_	NALYSI	ANALYSIS REQUESTED	ESTED	-			
TURNAROUND TIME:				V lstα istnoΩ	ORGANIC	S			INORG.	3,		
NATE NATED		FIELD LD.		→	AOV	Pest Pest			Wetal CN	LAB I.D. NO	, NO.	REMARKS:
	<u>i</u>	100		N	<u> </u>	_	14					the state of the
					-							
											1	
							- 6		-			
Relinquished by: (Signature)	Date	Time Rec	Time Received by: (Signature	ature)			ם מת	<u> </u>	i	LABOR	LABORATORY USE ONLY Samples were	INLY
			Bootstar (Signature	(ature)			Date	Time	Sample	Discrepancies between Sample Labels and	1. Shipped or	or Hand Delivered Airbill#
Relinquished by: (Signature)	Oate	9 = =	reiven by .						COCR	COC Record? Yor N	 Amolem or chilled Received in good condition: Properly preserved: Y or N 	 Amorem of crimes Received in good condition: Y or N Property preserved: Y or N
Relinquished by: (Signature)	Date	Time Rec	Received by: (Signature)	alure)			Date	Time	E Xpidill.		5. Samples returned to lab	5. Samples returned to lab Hrs from collection. COC Tape was: 1. Present on outer package: Y or N
Relinquished by (Signature)	Date	Time Re	Received by: (Signature)	nature)			Date	Time			2. Unbroken on o 3. COC record pr Y or N	 Unbroken on outer package: Y or N COC record present & complete upon sample receipt: Y or N
		3			7.37		1					
!				Ĺ	` `	VOC 1410 1 1717	FIATI C	F		ā	IK COBY .	PINIK COPY - I ARORATORY

APPENDIX G GROUNDWATER SAMPLING RECORD SHEETS

1	GROUNDWATER	SAMPLING RECORD SHEET
SITE:	Comeli CIHLEC	DATE: 7/17/12 TIME: 3:35 pm
JOB#:	CORN 9501	SAMPLERS: CJF/KWW
SAMP	LE LOCATION: MW-1	MEASURING PT: Apol river
DEPTI	H TO WATER: 79.6	FT. WELL DEPTH: 92 FT.
STATI	C WATER LEVEL: /2	.4 FT. STATIC VOLUME: 209 GALS
MIN.	VOLUME TO BE REMO)VED: Z4.27 GALS.
	JATION TECHNIQUE:	
		BLADDER PUMP BAILER
DEPTI	H TO PUMP INTAKE: /	WA FT.
	RATE: 5.0	GPM +/- GALS. PER LINEAR FT.
TIME	PUMPED: 20	MINS. 2 INCH x .163
TOTA	_ VOLUME PURGED: /	/00 GALS. 4 INCH x .653 X
SAMP	LING ANALYSIS: 7	The perticited by Method 8081
PID	Ar Menitoring very	VHV: At / New brekenind concertion
FIELD	PARAMETERS:	
	76.4/15.7 TEMP: 15.2/15	7/ 0 C CONDUCTIVITY: 233/283/28/28/U!
	pH: MM	TURBIDITY: - NT
NOTE	S: Silt- free	after 5.0 geller ranged.
J	Art pump: 7:10 pm	
~	bot pump: 3:10 pm	
		CIONATUDE.
<u> </u>		SIGNATURE / COF

GROUNDW	ATER SAM	PLING	RECORD	SHEET	
SITE: Cornell LIA	1lec	DA	TE: 7/17/02	TIME: 2:	20 рт
JOB#: COKN 9501		SAMPLEF	RS: CJF/,	lww	
SAMPLE LOCATION	: MW-2	Ì	MEASURING I	PT: by of	rista
DEPTH TO WATER:	79.7 F	<u>T.</u>	WELL DEPTH:	92	FT.
STATIC WATER LEV	/EL: /2,3 F	T. :	STATIC VOLU	IME: 8.03	GAL
MIN. VOLUME TO E	BE REMOVED:	24.10	GALS.		
EVACUATION TECH	NIQUE: SI	JBM. PU	MP & C	ENT. PUMP	
	Bi	LADDER	PUMP B	AILER	
DEPTH TO PUMP I	NTAKE: NA F	Т.			
FLOW RATE: J.O	G	PM +/-	GALS. PER	LINEAR F	Т
TIME PUMPED: 2	70 M	INS.	2 INCH ×	.163	
TOTAL VOLUME PL	RGED: 100 G	ALS.	4 INCH x	.653×	
SAMPLING ANALYS	IS: Tel pe	heiles 1	y Methol	8081.	
Plo for Muitare	erutts: 14/	near le	eksned as	rombation.	
					
FIELD PARAMETERS	5:				/
TEM	2. 14.6/18.7/ 2: 14.6/12.4/13	·	CONDUCTIV	ITY: 267/26	4 l
<u> </u>	H: NM		TURBIDITY:		NT
NOTES: Silf- #		urix. 5.0.	Jellar rom.	rd.	
stat prop. 1:55	рм				
end prop. 2:15	•				_
	_	`!^\!	IDE.		//
	S	SIGNATL	IKING	CQ.Z	_//

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GROUNDWAT	ER SAMPLING RECORD SHEET
SITE: Cornell LIHREC	DATE: 7/17/02 TIME: MW-3
JOB#: CORN 9501	SAMPLERS: CJF/KWW
SAMPLE LOCATION: /	MEASURING PT: Top of rism
DEPTH TO WATER: 7	7.7 FT. WELL DEPTH: 92 FT.
STATIC WATER LEVEL:	18.7 FT. STATIC VOLUME: 12.21 GAL
MIN. VOLUME TO BE I	REMOVED: 76.63 GALS.
EVACUATION TECHNIQ	UE: SUBM. PUMP Z CENT. PUMP
	BLADDER PUMP BAILER
DEPTH TO PUMP INTA	KE: MA FT.
FLOW RATE: Approx. /L	O GPM GALS. PER LINEAR FT. M
	MINS. 2 INCH x .163
	ED: Approx. 120 GALS. 4 INCH x .653 X
	TCL perticites by Methol 8081.
Plb Air Ministery result	4: At/ near backenind convertations.
FIELD PARAMETERS:	
TEMP: 25	1/25/20 C CONDUCTIVITY: 267/237/249 L
pH: /	
	after apprix. 5 pullar remod.
Pun stat: 11:58 as	ue .
Pump stort: 11:58 as	su 1
	
	SIGNATURE TO LOS. THE

GROUNDWATER	SAMPLING RECORD SHEET
SITE: Comeli LIHKEC	DATE: 7/17/02 TIME: 1:28pm
JOB#: CORN 9501	SAMPLERS: CJF/RWW
SAMPLE LOCATION: Aw-	-4 MEASURING PT: Top of rise
	FT. WELL DEPTH: 92 FT.
	7.75 FT. STATIC VOLUME: 8.75 GAL
MIN. VOLUME TO BE REM	OVED: 24.98 GALS.
EVACUATION TECHNIQUE:	SUBM. PUMP CENT. PUMP
	BLADDER PUMP D BAILER D
DEPTH TO PUMP INTAKE:	N/A FT.
FLOW RATE: 10.0 CAPPINE	e) GPM GALS. PER LINEAR FT. A
TIME PUMPED: 9	MINS. 2 INCH x .163
	% GALS.+- 4 INCH x .653 ➤
SAMPLING ANALYSIS:	TCL perticides by Method 8081.
PID Air Minitaring results:	At or near Lock private concentrations throwser
manitoring yearsh	
FIELD PARAMETERS:	
TEMP: 25/25/2	Spec CONDUCTIVITY: 1174/127/12/12/12
pH: NM	TURBIDITY: - N
NOTES: Silf- free	after youx. 5 pallow varived.
Shut yuap: 1:05 pm	, , , , , , , , , , , , , , , , , , ,
and pump: 1:14 pm	
• •	CIONATUDE
	SIGNATURE / 15F

GROUNDWATER S	SAMPLING RECORD SHEET
SITE: Cornell LIHREC	DATE: 7/17/02 TIME: 5:15pm
JOB#: CORN 9501	SAMPLERS: CJF/PWW
SAMPLE LOCATION: Irrigation L	Well 5-73265 MEASURING PT: top of riser
	illeFT. WELL DEPTH: 154 FT.
STATIC WATER LEVEL: -	FT. STATIC VOLUME: — GALS
MIN. VOLUME TO BE REMO	VED: — GALS.
EVACUATION TECHNIQUE:	SUBM. PUMP CENT. PUMP
	BLADDER PUMP BAILER
DEPTH TO PUMP INTAKE:	FT.
FLOW RATE:	GPM GALS. PER LINEAR FT.
TIME PUMPED:	MINS. 2 INCH x .163
TOTAL VOLUME PURGED:	
SAMPLING ANALYSIS: 70	"L perticides by Method 8081.
FIELD PARAMETERS:	
TEMP:	OC CONDUCTIVITY:
pH:	TURBIDITY: NT
	e pump. Well head not morrible.
	in sample collection valve on
pump. Pump in use a	thing of sample collection.
	SIGNATURE!
H2MGROUP ENGINE	SIGNATURE: SCIENTISTS · SURVEYORS

GROUNDWATER SAMPLING RECORD SHEET	
SITE: Cornell CIHREC DATE: 10/11/02 TIME: 12:00)	'pu
JOB#: COKN 9501 SAMPLERS: CTF/RWW	
SAMPLE LOCATION: MW-/ MEASURING PT: Top of no	سدي
DEPTH TO WATER: 79.93 pin FT. WELL DEPTH: 94.7 FT.	
STATIC WATER LEVEL: 1437 FT. STATIC VOLUME: 934 GA	\LS
MIN. VOLUME TO BE REMOVED: 28.15 GALS.	
EVACUATION TECHNIQUE: SUBM. PUMP 🛎 CENT. PUMP 🛚	<u> </u>
BLADDER PUMP BAILER	<u> </u>
DEPTH TO PUMP INTAKE: MA FT.	
FLOW RATE: /O GPM +/- GALS. PER LINEAR FT	_
TIME PUMPED: 6 MINS. 2 INCH x .163	
TOTAL VOLUME PURGED: 60 GALS. +/- 4 INCH x .653 ×	
SAMPLING ANALYSIS: Tel pertiader Ly 5m-846 Method	<u></u>
BOBI	
FIELD PARAMETERS:	
TEMP: /z,7 °C CONDUCTIVITY: 270	us
	UTV
NOTES: Afr = 79.85' After purple	
NYSTEC Calleded split simple.	
	
SIGNATURE:	
ENGINEERS · ARCHITECTS · PLANNERS · SCIENTISTS · SURVEYORS IDITOWA, N.J. TOTOWA, N.J.	

GROUN	DWATER	SAMPLIN	G RECORD	SHEET	
SITE: Cornel	I LIHREC		DATE: 10/15/02	TIME: /	11:35,
			LERS: CTF/A		
SAMPLE LOCA	ΠΟΝ: MW-	<i>Z</i>	MEASURING	PT: Top of	ואין א
DEPTH TO WA	TER: 80.02	FT.	WELL DEPTH	: 93.78	FT.
STATIC WATER	LEVEL: /ステ	6 FT.	STATIC VOLU	JME: 8.72	GA
MIN. VOLUME	TO BE REMC	VED: 40.	& GALS.		
EVACUATION T	ECHNIQUE:	SUBM.	PUMP Z	ENT. PUM	Р [
		BLADD	R PUMP 🗌 B	BAILER	
DEPTH TO PU	MP INTAKE: /	<u> </u>			
FLOW RATE:	10	GPM +/-	GALS. PEF	R LINEAR	FT.
TIME PUMPED:	-	MINS.	2 INCH x	.163	
TOTAL VOLUME	E PURGED: 4	O GALS.	4 INCH x	.653 🔀	
SAMPLING ANA	ALYSIS: 76	l perti	it by su	v- 946,	
Method	8081				
			·		
FIELD PARAME					··
PID: atlucar Lacksonad	TEMP: //.;	9 °C	CONDUCTIV	TTY:	260
Lacksond	pH: 6.15	-	TURBIDITY:	-	<u> </u>
NOTES: /h =	79.67' afte	i pumpins	J. Aschor		
of NYSA	DECharte ul	beet opti	f - sample.		<u> </u>
		SIGNI	TURE:	1/2 2/	//
H2MG			CTS · PLANAGES · SCS	FINITISTS - 41 mb/s	/CJ/

CORN 9501 OCATION: 1/4 OWATER: 7/2 ATER LEVEL: JME TO BE I	w-3 2.49 (più 19.2 REMOVE	SAMP FT. FT. D: アス	STAT	CSF /R SURING DEPTH TIC VOLU	PT: 79 : 92.	69 F	Сел - Т.
OCATION: 1/4 WATER: 7/2 ATER LEVEL: JME TO BE I	w-3 2.49 (più 19.2 REMOVE	SAMP FT. FT. D: アス	PLERS: MEAS WELL STAT	CSF /R SURING DEPTH TIC VOLU	PT: 79 : 92.	69 F	Сел - Т.
O WATER: 70 ATER LEVEL: JME TO BE I	w-3 2.49 (più 19.2 REMOVE)FT. FT. D: <i>アス</i>	MEAS WELL STAT	SURING DEPTH TC VOLU S.	PT: <i>Ty</i> : <i>92.6</i> JME: /	69 F 12.55 (т.
ATER LEVEL: JME TO BE I	/9.2 REMOVE	FT. D: <i>プス</i>	STAT	ΠC VOLU	JME: /	(2.55)	
JME TO BE I	REMOVE	D: 37.	6 GAL	S.			GALS
ON TECHNIQ							
	UE:	SUBM.	PUMP				
OUMD INTA			,		CENT. F	PUMP_	
TOURD INTA		BLADDI	ER PUM	P D E	BAILER		
J FUNIT IN IA	KE: MA	FT.					
TE: 10 +	·/-	GPM	G,	ALS. PE	R LINE	AR FT.	NA
IPED: 8		MINS.	2	INCH x	.163		
						×	•

TEMP:	//.5- () C	CO	NDUCTIV	/ITY: 5	205	u
pH:	6.15	5° V.	TUI	RBIDITY:		•	NΤ
MS/MSD	Willecteo	1 at	Hir u	ve11.			
NYSOEC on	site	h i	altect.	sylit -	Traple		
1tw= 73.48	after	- pon	pine			- 2	
		·		. 4/2		- ~/1	1
	MPED: 8 DLUME PURG G ANALYSIS: ANALYSIS: ANALYSIS: ANALYSIS: ANALYSIS: ANALYSIS: PH: ANALYSIS: ANALYSIS: ANALYSIS: ANALYSIS: PH: ANALYSIS: ANALYSIS:	APED: 8 DLUME PURGED: 80 G ANALYSIS: TCC That 8081 RAMETERS: PH: 6.15 MS/MSD Allected NYSDEC on site Jhw= 73.48' after	MPED: 8 MINS. DLUME PURGED: 80 GALS. G ANALYSIS: TCL pers ethat 8081 RAMETERS: TEMP: 11.5 OC pH: 6.15 s.v. MS/MSD allected at NYSDEC on site to SIGNA SIGNA	MPED: 8 MINS. 2 DLUME PURGED: 80 GALS. 4 G ANALYSIS: TEL perfector AMETERS: TEMP: //.5 O C CO PH: 6.15 S.V. TUI MS/MSDEC on site to initect Jtw= 73.48 after pumping SIGNATURE	MPED: 8 MINS. 2 INCH X DLUME PURGED: 80 GALS. 4 INCH X G ANALYSIS: TEL perfector by Albert 8081 RAMETERS: DH: 6.15 S.U. TURBIDITY: MS/MSD allected at this well. NYSDEC on site to allect split - SIGNATURE:	MPED: 8 MINS. 2 INCH x .163 DLUME PURGED: 80 GALS. 4 INCH x .653 = GANALYSIS: TEL pertailer by SW-8 ether 8081 RAMETERS: TEMP: 11.5 ° C CONDUCTIVITY: 3 ph: 6.15 s.v. TURBIDITY: — MS/MID allected at this well. NYSOEC on site to inject sylit - ringle 1 the 73.48 after propring	DLUME PURGED: 80 GALS. 4 INCH x .653 × G ANALYSIS: TEL pertailer by SW-846, ethod 8081 RAMETERS: TEMP: 11.5 OC CONDUCTIVITY: POS pH: 6.15 s.v. TURBIDITY: — MS/MSD Wilested at this well. NYSDEC on site to milest split - rangle Itw= 73.48 after pumpine SIGNATURE:

GROUNDWATER SAMPL	ING RECORD SHEET
SITE: Cornell LIHREC	DATE: 10/18/12 TIME: 10:45
JOB#: CORN 9501 SA	MPLERS: CTF/FUN
SAMPLE LOCATION: MW-4	MEASURING PT: Top of riv
DEPTH TO WATER: 7968 (Pri) FT.	WELL DEPTH: 94.23 FT.
STATIC WATER LEVEL: 15.05 FT.	STATIC VOLUME: 9.82 GA
MIN. VOLUME TO BE REMOVED: Z	7.48 GALS.
EVACUATION TECHNIQUE: SUBI	M. PUMP 🗵 CENT. PUMP [
BLAI	DDER PUMP D BAILER
DEPTH TO PUMP INTAKE: NA FT.	
FLOW RATE: 10.0 +1- GPM	GALS. PER LINEAR FT.
TIME PUMPED: 5 MINS	S. 2 INCH x .163
TOTAL VOLUME PURGED: 50 GAL	S. 4 INCH x .653 ×
SAMPLING ANALYSIS: TZZ /	exheider by sw-got
Method 8081	
FIELD PARAMETERS:	
hr manchine: TEMP: 11.7 °C	CONDUCTIVITY: 179
FIR = at loan by pH: 5.27 NU.	TURBIDITY: - 1
NOTES: NYSDEC Collected split	Le souple.
Stw= 79.67' after gamping	
SIG	NATURE:
	CHITECTS · PLANNERS · SCIENTISTS · SURVEYORS

GROUNDWATER S	SAMPLING RECORD SHEET
SITE: Cornell LINERE	DATE: 10/2/02 TIME: 10:25
JOB#: CORN 9501	SAMPLERS: CTF
SAMPLE LOCATION: Irrisation	Well S- TOOLS MEASURING PT: N/A
DEPTH TO WATER: N/A	FT. WELL DEPTH: WY FT.
STATIC WATER LEVEL: -	FT. STATIC VOLUME: - GA
MIN. VOLUME TO BE REMO	VED: — GALS.
EVACUATION TECHNIQUE:	— SUBM. PUMP 🔲 CENT. PUMP 🛚
	BLADDER PUMP BAILER
DEPTH TO PUMP INTAKE:	— FT.
FLOW RATE:	GALS. PER LINEAR FT.
<u> </u>	MINS. ≠/- 2 INCH x .163
	GALS. 4 INCH x .653
SAMPLING ANALYSIS: 7	TCL Perticles by SN-846, Method
9081	
FIELD PARAMETERS:	
TEMP: N/4	OC CONDUCTIVITY: MA
рН: <i>М</i> Ч	TURBIDITY: MM N
NOTES: Lin-shaff to	where proup. Wellheid not receive
Well out at service a	it time of 10/11/12 vite vivit;
allect MW-1 Hand M	ru-4 suples. As you NYSDEC F. Wants on.
/ .	W-4 suples. As per NYSDEC F. blanks me
well.	SIGNATURE:

APPENDIX H GROUNDWATER DATA SUMMARY SHEETS

EPA SAMPLE NO.	
MW-1	

Lab Name: H2M LABS, INC.	Contract:
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Lab Code: 10478 Case No.: CORN SAS No.: SDG No.: CORN001

Matrix: (soil/water) WATER Lab Sample ID: 0207555-002A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A17187 RAW

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) CONT Date Extracted: 07/18/02

Concentrated Extract Volume (uL) Date Analyzed: 07/20/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) \underline{N} pH: Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND 319-84-6 alpha-BHC 319-85-7 beta-BHC 319-86-8 delta-BHC 58-89-9 gamma-BHC	(μg/L or μg/Kg) UG/L 0.050 0.050	<u>Q</u>
319-85-7 beta-BHC 319-86-8 delta-BHC	0.050	
319-86-8 delta-BHC	0.050	
30100 20100		U
gamma-BHC	0.050	
2.5	0.050	- U
riepiacinoi	0.050	U
3 404411	0.050	- 0
- Passidor Cooxide	0.050	
Zindostinai i	0.050	U U
- Total III	0.10	U
T,T DDL	0.10	U
Chain	0.10	<u>U</u>
137dostriali II	0.10	<u> </u>
3. DOB	0.10	U U
Endostriali suriale	0.10	Ü
1,7 1001	0.10	
72 - 43 - 5 Methoxychlor	0.50	U
53494-70-5 Endrin ketone	0.10	<u> </u>
7421-93-4 Endrin aldehyde	0.10	U
5103-71-9 alpha-chlordane	0.050	U
5103-74-2 gamma-Chiordane	0.050	U
8001-35-2 Toxaphene	5.0	<u> </u>

EPA SAMPLE NO.	
MW-2	

Lab Name:	H2M LABS, INC.	Contract:	

Lab Code: 10478 Case No.: CORN SAS No.: SDG No.: CORN001

Matrix: (soil/water) WATER Lab Sample ID: 0207555-003A

Sample wt/vol: 1000 (g/mL) <u>ML</u> Lab File ID: <u>A17188 RAW</u>

% Moisture: Decanted: (Y/N) <u>N</u> Date Received: 07/17/02

Extraction: (Type) CONT Date Extracted: 07/18/02

Concentrated Extract Volume: 10000 (ul.) Date Analyzed: 07/20/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) \underline{N} pH: ____ Sulfur Cleanup: (Y/N) \underline{N}

319-84-6 alpha-BHC 0.050 U	CAS NO		(μg/L or μg/Kg) UG/L	
319-85-7 beta-BHC 0.050 U 319-86-8 delta-BHC 0.050 U 58-89-9 gamma-BHC 0.050 U 76-44-8 Heptachlor 0.050 U 309-00-2 Aldrin 0.050 U 1024-57-3 Heptachlor epoxide 0.050 U 959-98-8 Endosulfan I 0.050 U 60-57-1 Dieldrin 0.10 U 72-55-9 4,4-DDE 0.10 U 33213-65-9 Endosulfan II 0.10 U 72-54-8 4,4-DDD 0.10 U 1031-07-8 Endosulfan sulfate 0.10 U 50-29-3 4,4-DDT 0.08 PJ 72-43-5 Endrin ketone 0.50 U 53494-70-5 Endrin ketone 0.50 U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U		mpita-DITC		
319-86-8 delta-BHC		10000 2110		
58-89-9 gamma-BHC 0.050 U 76-44-8 Heptachlor 0.050 U 309-00-2 Aldrin 0.050 U 1024-57-3 Heptachlor epoxide 0.050 U 959-98-8 Endosulfan I 0.050 U 60-57-1 Dieldrin 0.10 U 72-55-9 4,4'-DDE 0.10 U 33213-65-9 Endosulfan II 0.10 U 72-54-8 4,4'-DDD 0.10 U 1031-07-8 Endosulfan sulfate 0.10 U 50-29-3 4,4'-DDT 0.08 PJ 72-43-5 Methoxychlor 0.50 U 53494-70-5 Endrin ketone 0.10 U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U	319-86-8	delta-BHC		
76-44-8 Heptachlor 0.050 U 309-00-2 Aldrin 0.050 U 1024-57-3 Heptachlor epoxide 0.050 U 959-98-8 Endosulfan I 0.050 U 60-57-1 Dieldrin 0.10 U 72-55-9 4,4'-DDE 0.10 U 72-20-8 Endrin 0.10 U 33213-65-9 Endosulfan II 0.10 U 72-54-8 4,4'-DDD 0.10 U 1031-07-8 Endosulfan sulfate 0.10 U 50-29-3 4,4'-DDT 0.08 PJ 72-43-5 Methoxychlor 0.50 U 53494-70-5 Endrin ketone 0j U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U	58-89-9	gamma-BHC		
309-00-2 Aldrin	76-44-8	Heptachlor		
1024-57-3 Heptachlor epoxide	309-00-2	Aldrin		
959-98-8 Endosulfan I 0.050 U	1024-57-3	Heptachlor epoxide		
Comparison of the comparison	959-98-8			υ
72-55-9 4,4'-DDE 0.10 U 72-20-8 Endrin 0.10 U 33213-65-9 Endosulfan II 0.10 U 72-54-8 4,4'-DDD 0.10 U 1031-07-8 Endosulfan sulfate 0.10 U 50-29-3 4,4'-DDT 0.08 PJ 72-43-5 Methoxychlor 0.50 U 53494-70-5 Endrin ketone 0) U 7421-93-4 Endrin aldehyde 9.10 U 5103-71-9 alpha-chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U	60-57-1			U
72-20-8 Endrin 0.10 U 33213-65-9 Endosulfan II 0.10 U 72-54-8 4,4'-DDD 0.10 U 1031-07-8 Endosulfan sulfate 0.10 U 50-29-3 4,4'-DDT 0.08 PJ 72-43-5 Methoxychlor 0.50 U 53494-70-5 Endrin ketone 0.10 U 7421-93-4 Endrin aldehyde 0.10 U 5103-71-9 alpha-chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U	72-55-9			U
33213-65-9 Endosulfan	72-20-8			U
72-54-8 4.4'-DDD 0.10 U 1031-07-8 Endosulfan sulfate 0.10 U 50-29-3 4.4'-DDT 0.08 PJ 72-43-5 Methoxychlor 0.50 U 53494-70-5 Endrin ketone 0.10 U 7421-93-4 Endrin aldehyde 0.10 U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U			Commence of the commence of th	U
1031-07-8 Endosulfan sulfate 0.10 U	72-54-8			U
50-29-3 4,4-DDT 0.08 PJ 72-43-5 Methoxychlor 0.50 U 53494-70-5 Endrin ketone 0.10 U 7421-93-4 Endrin aldehyde 0.10 U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U				U
72-43-5 Methoxychlor 0.08 PJ 53494-70-5 Endrin ketone 0.50 U 7421-93-4 Endrin aldehyde 0.10 U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U			0.10	U
53494-70-5 Endrin ketone 0.50 U 7421-93-4 Endrin aldehyde 0.20 U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U			0.08	РJ
7421-93-4 Endrin aldehyde 0.15 U 5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U			V	U
5103-71-9 alpha-chlordane 0.050 U 5103-74-2 gamma-Chlordane 0.050 U 8001-35-2 Toxaphene 0.050 U			0	U
5103-74-2 gamma-Chlordane 0.050 U 8001-3F 2 Toxaphene 0.050 U			9.10	U
8001-3F 2 Toxaphene			0.050	U
			0.050	U
		Toxaphene	5.0	U

EPA	SAMPLE	NO.
MW-	3	

rao Mame:	H2M LABS, INC.	Contract:
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 Lab Code.
 10478
 Case No.:
 CORN
 SAS No.:
 SDG No.:
 CORN001

Matrix: (soil/water) WATER Lab Sample ID: 0207555-004A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A17189 RAW

% Moisture: Decanted: (Y/N) No Date Received: 07/17/02

Extraction: (Type) CONT Date Extracted: 07/18/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/20/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) \underline{N} pH: ___ Sulfur Cleanup: (Y/N) \underline{N}

CAS NO	D. COMPOUND	OBLIGHT TO MENT OF THE PROPERTY OF THE PROPERT) ,
319-84-6		(μg/L or μg/Kg) UG/L	Q
319-85-7		0.050	
319-86-8	John Dire	0.050	
58-89-9	detta-DITC	0.050	
	Permin-DITC	0.050	U
76-44-8	Trepatettion	0.050	<u> </u>
309-00-2	Marai	0.050	U
1024-57-3	Heptachlor epoxide		U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	υ
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.08	J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	9.10	U
50-29-3	4,4'-DDT	0.10	- '.
72-43-5		0.39	
53494-70-5	Methoxychlor	0.50	U
7421-93-4	Endrin ketone	0.10	U
5103-71-9	Endrin aldehyde	0.10	<u> </u>
5103-74-2	alpha-chlordane	0.050	U
8001-35-2	gamma-Chlordane	0.050	
	Toxaphene	5.0	U
	··		U

EPA SAMPLE	NO.
MW-4	

Lab Name: H2M LABS, INC.	Contract:	
Lab Code: 10478 Case No.: CORN	SAS No.:	SDG No.: CORN001
Matrix: (soil/water) <u>WATER</u>	Lab Sample 1D:	0207555-005A
Sample wt/vol: 1000 (g/mL) ML	Lab File ID:	<u> A17192.RAW</u>
% Moisture. Decanted: (Y/N)	N Date Received:	07/17/02
Extraction: (Type) <u>CONT</u>	Date Extracted:	07/18/02
Concentrated Extract Volume: 10000 (uL)	Date Analyzed:	07/20/02
Injection Volume: <u>0.5</u> (uL)	Dilution Factor:	1.00

pH: ____

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:

Sulfur Cleanup: (Y/N) N

0.0316	CONCENTRATION		S:
CAS NO	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	<u>``</u>
319-85-7	beta-BHC	0.050	L
319-86-8	delta-BHC	0.050	- U
58-89-9	gamma-BHC	0.050	n n
76-44-8	Heptachlor	0.050	IJ
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U U
959-98-8	Endosulfan I	0.050	
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	<u>U</u>
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD		U
1031-07-8	Endosulfan sulfate	0.10	UU
50-29-3	4,4'-DDT	0.11	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.50	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.10	U
5103-74-2		0.050	U
8001-35-2	gamma-Chlordane	0.050	Ü
33-2	Toxaphene	5.0	

EPA SAMPLE NO.

IRRIGATION WELL

Lab Name: H2M LABS, INC. Contract:

 Lab Code:
 10478
 Case No.:
 CORN
 SAS No.:
 SDG No.:
 CORN001

Matrix: (soil/water) WATER Lab Sample ID: 0207555-001A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: <u>A17186 RAW</u>

% Moisture. Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) CONT Date Extracted: 07/18/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/20/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CARNO	~ ~		•
CAS NO.	COMPOUND	(μg/L or μg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	~
319-85-7	beta-BHC	0.050	<u>U</u>
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	<u>U</u>
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	<u>U</u>
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	7.00	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	UU
72-54-8	4,4'-DDD	0.10	UU
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.49	
	Methoxychlor	0.10	U
		0.50	U
	Endrin ketone	0.10	U
	Endrin aldehyde	0.10	U
	alpha-chlordane	0.050	U
0.00	gamma-Chlordane	C.050	U
0001-35-2	Toxaphene	5.0	U

EPA SAMPLE NO.	
MW-I	

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: CORN SAS No.: SDG No.: CORN002

Matrix: (soil/water) WATER Lab Sample ID: 0210504-001A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H17141.RAW

% Moisture: Decanted: (Y/N) N Date Received: 10/16/02

Extraction: (Type) CONT Date Extracted: 10/17/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/22/02

Injection Volume: 0.5 (nL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) \underline{N} pH: ___ Sulfur Cleanup: (Y/N) N

0.0		COMCENTRATION ONLY	(15):
CAS NO	COMPOUND	(μg/L or μg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	_υ.
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin		U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.50	U
7421-93-4		0.10	U
5103-71-9	Endrin aldehyde	0.10	U
5103-74-2	alpha-chlordane	0.050	U
	gamma-Chlordane	0.050	U
0001-01-2	Toxaphene	5.0	U

EPA	SAMPLE NO.
MW-	2

Lab Name:	H2M LABS, INC.	Contract:
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 Lab Code:
 10478
 Case No.:
 CORN
 SAS No.:
 SDG No.:
 CORN002

Matrix: (soil/water) WATER Lab Sample ID: 0210504-002A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: <u>H17142 RAW</u>

% Moisture: Decanted: (Y/N) N Date Received: 10/16/02

Extraction: (Type) CONT Date Extracted: 10/17/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/22/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) \underline{N} pH: ____ Sulfur Cleanup: (Y/N) \underline{N}

CACNO	001 001 -		Э.
CAS NO		(μg/L or μg/Kg) <u>UG/L</u>	Q
319-84-6		0.050	<u> </u>
319-85-7	B110	0.050	
319-86-8	delta-BHC	0.050	Ū
58-89-9	gamma-BHC		U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	Ū
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9		0.10	Ū
72-54-8	Endosulfan []	0.10	U
1031-07-9	4,4'-DDD	0.10	Ū
	Endosulfan sulfate	0.10	<u>U</u>
50-29-3	4,4'-DDT	0.06	J
72-43-5	Methoxychlor	0.50	
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.10	U
5103-74-2	gamma-Chlordane		U
8001-35-2	Toxaphene	0.050	U.
		<u>5.0</u>	Ü

EPA SAMPLE NO.	
MW-3	

Lab Name:	H2M LABS, INC.	Contract:
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Matrix: (soil/water) WATER Lab Sample ID: 0210504-003A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H17143.RAW

% Moisture: Decanted: (Y/N) N Date Received: 10/16/02

Extraction: (Type) CONT Date Extracted: 10/17/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/22/02

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) \underline{N} pH: ___ Sulfur Cleanup: (Y/N) N

CACNO	CONCENTRATION UNITS:	
CAS NO. COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
319-84-6 alpha-BHC	0.050	ſ····· ŏ -
319-85-7 beta-BHC	0.050	
319-86-8 delta-BHC	0.050	U
58-89-9 gamma-BHC	0.050	<u>U</u>
76-44-8 Heptachlor	0.050	U
309-00-2 Aldrin	0.050	U
1024-57-3 Heptachlor epoxide	0.050	Ü
959-98-8 Endosulfan I	0.050	U
60-57-1 Dieldrin		U
72-55-9 4,4'-DDE	0.10	U
72-20-8 Endrin	0.06	J
33213-65-9 Endosulfan II	0.10	U
72-54-8 4,4'-DDD	0.10	Ū
1031-07-8 Endosulfan sulfate	0.10	U
50-29-3 4,4'-DDT	0.10	Ü
	0.30	P
TATEGROAYCHIOL	0.50	U
End in Retone	0.10	IJ
	0.10	U
	0.050	U
0.000	0.050	Ū
8001-35-2 Toxaphene	5.0	U

EPA SAMPLE NO.	
MW-4	

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: CORN SAS No.: SDG No.: CORN002

Matrix: (soil/water) WATER Lab Sample ID: 0210504-004A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H17146.RAW

% Moisture: Decanted: (Y/N) N Date Received: 10/16/02

Extraction: (Type) CONT Date Extracted: 10/17/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/22/02

Injectic.. Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) \underline{N} pH: Sulfur Cleanup: (Y/N) N

CAS NO		(μg/L or μg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	
319-85-7	beta-BHC	0.050	
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor		Ū
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.10	U
72-20-8		0.10	U
	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	Ū
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.11	
50-29-3	4,4'-DDT	0.10	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone		U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.10	U
5103-74-2	gamma-Chlordane	0.050	υ
3001-35-2	Toxaphene	0.050	U
- — !	Toxapiiciie	5.0	Ū

EPA SAMPLE NO.
IRRWELL

Lab Name: <u>HZM LABS, INC.</u>		Contract:	
Lab Code: 10478 Case N	o.: <u>CORN</u>	SAS No.:	SDG No.: CORN003
Matrix: (soil/water) <u>WATER</u>		Lab Sample ID:	0210928-001A
Sample wt/vol: 1000 (g.	mL) ML	Lab File ID:	H17932.RAW
% Moisture:	Decanted: (Y/N)	N Date Received:	10/29/02
Extraction: (Type)	CONT	Date Extracted:	11/05/02
Concentrated Extract Volume:	<u>10000</u> (uL)	Date Analyzed:	11/14/02
Injection Volume: 0.5	(uL)	Dilution Factor	1.00

pH:

GPC Cleanup: (Y/N)

CONCENTRATION UNITS:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0,050	U
319-85-7	beta-BHC	0.050	IJ
319-86-8	delta-BHC	0,050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	17
309-00-2	Aldrin	0.050	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	ŢŢ
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	Ū
72-20-8	Endrin	0.10	U U
33213-65-9	Endosulfan II	0,07	J
72-54-8	4,4'-DDD	0.10	[]
1031-07-8	Endosulfan sulfate	0.92	<u>v</u>
50-29-3	4,4'-DDT	0,10	ΤΪ
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	
5103-71-9	alpha-chlordane	0.050	II
5103-74-2	gamma-Chlordane	0.050	Ü
8001-35-2	Toxaphene	5.0	U

APPENDIX I END-POINT SOIL SAMPLE LAB REPORTS

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOHID#10478

7/8/02 11:30:00 AM

LABORATORY RESULTS

Lab No. : 0207208-001A

Sample Information...

Type: Soil

Origin:

Riverhead, NY 11901

Collected

Attn To:

Cornell L.I. H.R.L.

39 Sound Ave.

Client ID.

: OVERFLOW DRYWELL

EXCAVATION BASE ENDPOINT SAMPLE

Received 7/8/02 5:51:00 PM Collected By: CJF03 Copies To : CJF

•	Parameter(s)	<u>Results</u>	<u>Units</u>	Method Number	<u>Analyzed</u>
	alpha-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	beta-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
•	deita-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	gamma-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Heptachlor	380	μg/Kg-dry	SW8081	7/12/02 12:05:00 PM
)	Aldrin	9.8	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Heptachlor epoxide	< 1.7	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Endosulfan I	85000	μg/Kg-dry	SW8081	7/12/02 1:53:00 PM
	Dieldrin	18	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
,	4,4'-DDE	280	μg/Kg-dry	SW8081	7/12/02 12:05:00 PM
	Endrin	< 3.3	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Endosulfan II	37000	µg/Kg-dry	SW8081	7/12/02 1:53:00 PM
ı	4,4´-DDD	< 3.3	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Endosulfan sulfate	700	μg/Kg-dry	SW8081	7/12/02 12:05:00 PM
	4,4´-DDT	8.0	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Methoxychlor	100	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Endrin ketone	4.8	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Endrin aldehyde	10	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	alpha-Chlordane	< 1.7	μg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	gamma-Chlordane	1100	μg/Kg-dry	SW8081	7/12/02 12:05:00 PM
	Toxaphene	< 170	µg/Kg-dry	SW8081	7/11/02 7:31:00 PM
	Percent Moisture	1.3	wt%	D2216	7/10/02 7:00:00 AM
	Total Organic Carbon	153	mg/Kg-dry	LLOYD KAHN	7/17/02 10:47:00 AM

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

Date Reported:

7/19/02

Joann M. Slavin

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH (D#10478

LABORATORY RESULTS

Lab No. : 0207208-002A

Sample Information...

Type: Soil

Origin:

39 Sound Ave. Riverhead, NY 11901

Cornell L.I. H.R.L.

Attn To:

Collected 7/8/02 1:30:00 PM Received 7/8/02 5:51:00 PM

Collected By: CJF03 Copies To: CJF Client ID. : OVERFLOW DRYWELL

EXCAVATION BASE ENDPOINT SAMPLE

Parameter(s)	<u>Results</u>	<u>Units</u>	Method Number	<u>Analyzed</u>
alpha-BHC	< 1.8	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
beta-BHC	< 1.8	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
delta-BHC	< 1.8	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
gamma-BHC	< 1.8	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
Heptachlor	26	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
Aldrin	< 1.8	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
Heptachlor epoxide	< 1.8	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
Endosulfan I	30000	μg/Kg-dry	SW8081	7/12/02 3:41:00 Pf
Dieldrin	3.7	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
4,4´-DDE	96	μg/Kg-dry	SW8081	7/11/02 8:43:00 PI
Endrin	4.1	μg/Kg-dry	SW8081	7/11/02 8:43:00 PI
Endosulfan II	15000	μg/Kg-dry	SW8081	7/12/02 3:41:00 PM
4,4´-DDD	< 3.4	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
Endosulfan sulfate	97	μg/Kg-dry	SW8081	7/11/02 8:43:00 Pf
4,4*-DDT	4.7	µg/Kg-dry	SW8081	7/11/02 8:43:00 PI
Methoxychlor	18	µg/Kg-dry	SW8081	7/11/02 8:43:00 Pt
Endrin ketone	< 3.4	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
Endrin aldehyde	< 3.4	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
alpha-Chlordane	< 1.8	μg/Kg-dry	SW8081	7/11/02 8:43:00 PM
gamma-Chlordane	20	μg/Kg-dry	SW8081	7/11/02 8:43:00 Př
Toxaphene	< 180	μg/Kg-dry	SW8081	7/11/02 8:43:00 Pf
Percent Moisture	3.5	wt%	D2216	7/10/02 7:10:00 AM
Total Organic Carbon	224	mg/Kg-dry	LLOYD KAHN	7/17/02 10:51:00 A

Qualifiers

E - Value above quantitation range

D - Results for Dilution

Date Reported:

7/19/02

Joann M. Slavin

L H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID#10478

LABORATORY RESULTS

Lab No.: 0207208-003A

Sample Information...

Type: Soil

Origin:

Riverhead, NY 11901 Attn To:

Client ID.

: OVERFLOW DRYWELL

SIDEWELL ENDPOINT SAMPLE (EAST)

Collected 7/8/02 3:30:00 PM Received 7/8/02 5:51:00 PM

Collected By: CJF03 Copies To: CJF

Cornell L.I. H.R.L.

39 Sound Ave.

Parameter(s)	Results	<u>Units</u>	Method Number	<u>Analyzed</u>
alpha-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
beta-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
delta-BHC	< 1.7	µg/Kg-dry	SW8081	7/11/02 5:07:00 PM
gamma-BHC	< 1.7	µg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Heptachlor	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Aldrin	< 1.7	µg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Heptachlor epoxide	< 1.7	µg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Endosulfan I	34	μg/Kg-dry	SW8081	7/15/02 12:03:00 PM
Dieldrin	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
4,4*-DDE	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Endrin	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Endosulfan II	30	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
4,4*-DDD	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Endosulfan sulfate	6.3	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
4,4´-DDT	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Methoxychlor	< 17	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Endrin ketone	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Endrin aldehyde	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
alpha-Chiordane	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
gamma-Chlordane	4.0	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Toxaphene	< 170	μg/Kg-dry	SW8081	7/11/02 5:07:00 PM
Percent Moisture	1.6	wt%	D2216	7/10/02 7:15:00 AM
Total Organic Carbon	112	mg/Kg-dry	LLOYD KAHN	7/17/02 10:58:00 AN

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

Date Reported:

7/19/02

Joann M. Slavin

_ H2M LABS, INC.

575 Broad Hollow Road, Metville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID#10478

LABORATORY RESULTS

Lab No.: 0207208-004A

Sample Information...

Type: Soil

Origin:

Cornell L.I. H.R.L. 39 Sound Ave.

Riverhead, NY 11901

Attn To:

Client ID.

: OVERFLOW DRYWELL

SIDEWELL ENDPOINT SAMPLE (WEST)

Collected 7/8/02 3:30:00 PM Received 7/8/02 5:51:00 PM

Collected By: CJF03
Copies To : CJF

Parameter(s)	Results	<u>Units</u>	Method Number	Analyzed
aipha-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
beta-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
delta-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
gamma-BHC	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Heptachlor	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Aldrin	< 1.7	μg.:Kg-dry	SW8081	7/11/02 5:43:00 PM
Heptachlor epoxide	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Endosulfan I	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Dieldrin	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
4,4'-DDE	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Endrin	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Endosulfan II	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
4,4´-DDD	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Endosulfan sulfate	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
4,4´-DDT	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Methoxychlor	< 17	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Endrin ketone	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Endrin aldehyde	< 3.4	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
alpha-Chlordane	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
gamma-Chlordane	< 1.7	μg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Toxaphene	< 170	µg/Kg-dry	SW8081	7/11/02 5:43:00 PM
Percent Moisture	1.7	wt%	D2216	7/10/02 7:20:00 AM
Total Organic Carbon	159	mg/Kg-dry	LLOYD KAHN	7/17/02 11:02:00 AM
	alpha-BHC beta-BHC delta-BHC gamma-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4.4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Endrin ketone Endrin aldehyde alpha-Chlordane gamma-Chlordane Toxaphene Percent Moisture	alpha-BHC < 1.7	alpha-BHC < 1.7	alpha-BHC

Qualifiers:

E - Value above quantitation range

D - Results for Dilution

Date Reported:

7/19/02

Joann M. Slavin

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Lab No. : 0207258-002A

Sample Information...

Type: Soil

Origin:

Cornell L.I. H.R.L. 39 Sound Ave.

Riverhead, NY 11901

Attn To:

Client ID. : ROCK DRAIN EXCAVATION EAST

Collected 7/9/02 2:00:00 PM Received 7/9/02 5:00:00 PM

Collected By: CJF03 Copies To : CJF

Parameter(s)	<u>Results</u>	<u>Units</u>	Method Number	Analyzed
alpha-BHC	< 1.8	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
beta-BHC	< 1.8	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
delta-BHC	5.2	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
gamma-BHC	< 1.8	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Heptachlor	2.2	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Aldrin	< 1.8	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Heptachlor epoxide	< 1.8	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Endosulfan I	63	μg/Kg-dry	SW8081	7/15/02 8:33:00 PM
Dieldrin	< 3.4	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
4,4'-DDE	< 3.4	μg/Kg-dry	SW8081	7/15/02 7:57:00 PN
Endrin	< 3.4	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Endosulfan II	35	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
4,4'-DDD	< 3.4	μg/Kg-dry	SW8081	7/15/02 7:57:00 PN
Endosulfan sulfate	15	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
4,4´-DDT	< 3.4	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Methoxychlor	< 18	μg/Kg-dry	SW8081	7/15/02 7:57:00 PN
Endrin ketone	< 3.4	μg/Kg-dry	SW8081	7/15/02 7:57:00 PN
Endrin aldehyde	< 3.4	μg/Kg-dry	SW8081	7/15/02 7:57:00 PN
alpha-Chlordane	< 1.8	μg/Kg-dry	SW8081	7/15/02 7:57:00 PN
gamma-Chlordane	< 1.8	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Toxaphene	< 180	μg/Kg-dry	SW8081	7/15/02 7:57:00 PM
Percent Moisture	3.1	wt%	D2216	7/10/02 7:25:00 AM
Total Organic Carbon	103	mg/Kg-dry	LLOYD KAHN	7/17/02 11:04:00 A

Qualifiers: E - Value above quantitation range

D - Results for Dilution

Date Reported: 7/19/02 Joann M. Slavin

- H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747 (631) 694-3040. FAX: (631) 420-8436 NYSDOH ID#10478

LABORATORY RESULTS

: ROCK DRAIN EXCAVATION WEST

Lab No. : 0207258-003A

Sample Information...

Type: Soil

Origin:

Cornell L.I. H.R.L. 39 Sound Ave.

Riverhead, NY 11901 Attn To :

Client ID.

Collected 7/9/02 2:05:00 PM Received 7/9/02 5:00:00 PM

Collected By: CJF03 Copies To : CJF

Parameter(s)	Results	<u>Units</u>	Method Number	<u>Analyzed</u>
alpha-BHC	< 1.8	µg/Kg-dry	SW8081	7/15/02 9:09:00 PM
beta-BHC	< 1.8	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
delta-BHC	2.2	μg/Kg-dry	S\V8081	7/15/02 9:09:00 PM
gamma-BHC	< 1.8	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Heptachlor	2.2	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Aldrin	< 1.8	μg/Kg-dry	SW8081	7/15/02 9:09:00 PN
Heptachlor epoxide	< 1.8	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Endosulfan I	16	μg/Kg-dry	SW8081	7/15/02 9:09:00 PN
Dieldrin	< 3.4	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
4,4'-DDE	< 3.4	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Endrin	< 3.4	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Endosulfan II	9.3	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
4,4'-DDD	< 3.4	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Endosulfan sulfate	3.6	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
4,4 -DDT	< 3.4	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Methoxychlor	< 18	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Endrin ketone	< 3.4	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Endrin aldehyde	< 3.4	μg/Kg-dry	SW8081	7/15/02 9:09:00 PN
alpha-Chlordane	< 1.8	μg/Kg-dry	SW8081	7/15/02 9:09:00 PN
gamma-Chlordane	< 1.8	μg/Kg-dry	SW8081	7/15/02 9:09:00 PM
Toxaphene	< 180	μg/Kg-dry	SW8081	7/15/02 9:09:00 PN
Percent Moisture	3.8	wt%	D2216	7/10/02 7:30:00 AM
Total Organic Carbon	188	mg/Kg-dry	LLOYD KAHN	7/17/02 11:06:00 A

Qualifiers: E - Value above quantitation range

D - Results for Dilution

Date Reported:

7/19/02

Joann M. Slavin

APPENDIX J WASTE DISPOSAL DOCUMENTATION

material in account.

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	3.	Generator's Name and Mailing Address	**************************************	, , , ,	A. SI	ate Manifest Doc)Br
		CORRELL UNIVERSITY, L.I.	H.R.E.C.			<u>11 825</u>	<u> 3679</u>	
$\ \ $		3059 SOUND AVENUE, RIVER		. / · ·-	B. St	116.64negeors 24.70.34 5	ロフィット	_ /
		Generator's Phone (631) 727-3595 Transporter 1 Company Name	BAN DOR PA TO Numb)		ate Transporter's		11
11	1	ALL STATE POWER TAC	MP44 6345424	G		snaporter's Phor		- E
11	7.	Transporter 2 Company Name	8. US EPA ID Numb	ber		ate Transporter		
			10 504 5			ansporter's Phor	10	
$\ \cdot \ $	9.	Designated Facility Name and Site Address WAYNE DISPOSAL (EQ)	10. US EPA ID Numb	ber	G. \$1	ate Facility's IO		
$\ \ $	1	49350 H-I 94 SERVICE DR.	_		H. Fa	icility's Phone		
		BELLEVILLE, MI 48111	MID BY50906	33	}	600-553	-548g.	
	11	. US DOT Description (including Proper Shipping Name, Hi HM ID NUMBER).	ezard Class, and	12. Cont	Type	13. Total Quantity	14. I. Wi Unit No Wt/Vol	
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	15.	. Spacial Handling Instructions and Additional Information	BOX#	100-2	<u>o</u> .	, b ,		
	15.		ERGRACY 4 800-			, b ,	F	i
		24 HODE EN	ERCRECT # 800-	969-34	75			
		24 HODE EN GENERATOR'S CERTIFICATION: I hereby deciare that the contents of Decked, marked, and labeled, and are in all magnetic in proper condi- if I am a large quantity generator. I certify that I have a progra-	ERGRECT # 800- of this consignment are fully and tion for transport by highway aco m in place to reduce the volum	# 969 ~ 34 Bocurately designed ing to appear	75 cable ir	ternational and nat stergenerated to t	ional governme he degree I ha	antre ve d
		QENERATOR'S CERTIFICATION: I hereby declare that the contents of packed, marked, and labelled, and are in all impacts in proper condition in a large quantity generator. I certify that I have a program to be economically practicable and that I have salected the proper present and future threat to human health and the shvironmen	FEGRECY 4 800- of this consignment are fully and tion for transport by highway acc m in place to reduce the volun curicable method of treatment, to OR; if I am a small quantity	accurately descording to applied and toxicity generator, if	75 cable ir of wa	sternational and not ste generated to to currently evalidable	ional governme he degree I ha to me which	ntri ve d mini
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Form Approved. DMB No. 2050 0009 print or type. information in the shaded areas is not required by Federal law. Marulest 5 2. Page 1 1, Generator's US EPA ID No. UNIFORM HAZARDOUS NYO 0 30747799 **WASTE MANIFEST** Generator's Name and Mailing Address A. State Manifest Document Number MI 8253685 ITHREC RESPONSI US EPA 10 Number C. State Transporter's ID# / Transporter 1 Company Name D. Transporter's Phone 73 A 11 S TATE DUER VA Transporter 2 Company Name VAU034572124 US EPA ID Number E. State Transporter's ID F. Transporter's Phone ¥ 9. Designated Facility Name and Site Address
Whyne Dr 2003-11 (CO)
77353 N. I 74 327/CE Dr.
Bully 116 MT 48111 In Site # Election G. State Facility's (3) H. Facility's Phone 572-5489 M11)045050633 11. US DOT Description (including Proper Shipping Name, Hazard Class, and 10 NUMBER). 12. Containers Total Unit ۲ Тура Quantity X RO HABARDOUS WASTE SOLID NOS 9, NA 3077 ENDOSULFAN F ETT 15.690 001 KM ö と 402 P2 95 1400-292-4706 đ. MICHIGAN ĸ K. Handling Codes J. Additional Descriptions for Materials Listed Above BOX 122-ALERTING SYSTEM, APPRIL# 071902 WAB 15. Special Handling Instructions and Additional Information EMERGENCY 24 Half First Je Ky # 800 967 3478

16. GENERATOR'S CERTIFICATION: I heraby declare that the contents of this conalignment are fully and accurately desprised above by proper shipping name and are crassified. GENERAL ONLY CENTRIFICATIONS: I nearby declare that the contents of this consignant are full and and extend in the contents of this consignant are full and and the contents of the contents of this packed, making and albeing and are in all respects to proper on ordinar for transport by highway according to applicable international potential and national government transport by highway according to applicable international government to the content of th POLLUTION Date Printed/Typed Name

MIC Map Flyna A5 Mark LK Suntextox

7. Transporter 1 Acknowledgement of Receipt of Materials Signature Signatura Month Day YUNT MUGT BE REPONTED TO - 1 Date Month Day 19. Discrepancy Indication Space 20, Facility Owner of Operator: Certification pl receipt of hazardous materials Date Printed/Typed Name- , , EPA Forin 8700-22 (Rev. 9/88) TSDF COPY

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	3. Ge	enerator's Name and Mailing Address	14 15 (20.	., 1413	مهدري	A.	State Manifest	Document	
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Receipt ID: 1109389

Manifest: MI8253682

MUST BE REPORTED TO THE MICHIAAN POLLITION EMERGENCY ALERTING BYSTEM, IN MICHIGAN AT 1-490-252-4706 OR OUT OF STATE AT S17-373-7840 AND THE NATIONAL RESPONSE 1-400-484-862 34 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9,88)

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

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Pregained under authority of Part 131 and Part 121 of Act 451, 1994, as amended.

Fallors to file may subject you lactionial and/or civil population under Sections 324,11131 or 324,12118 MCL.

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Required under stanority of Part 111 and Part 121 of Act 451, 1994, as attended. Fature to the may subject you to cheminal andier civil penalties under Sections 324,11151 or 324,12115 MCL

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Receipt ID: 1109305

Manifest: Ml8253684

all spills bust be reported to the bighdan polution emergency alerting system, in inchigan at 1400-delyms or dut of state at 117373-7440 and the national reponse center at 1400-1244802 as hours per day.

EPA Form 8700-22 (Rev. 9/88)

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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lease print or type.			Form Approved. Di	AB Na. 2050-0839				
WASTE MANIFEST V/0		mant No.	of is no	ation in the shaded areas t required by Federal				
3. Generator's Name and Meiling Address CORBELL UNIVERSITY, L.I 3059 SOUND AVENUE, RIVE 4. Generator's Phone (631) 727-359:	. M.R.E.C. RHEAD, RY 11901 S	В.	State Manifest Do MI 8253 State Generator's State Transponer	3684				
5. Transporter 3 Company Name 3								
ALL STATE POWER VAC	144 D.	Transporter's Pho	10 733 - 8W-0210					
7. Transporter 2 Company Name	B. US EPA ID Numbe		State Transporter					
	1	F.	Transporter e Pho	na				
9. Designated Facility Name and Site Address	10. US EPA ID Numba	r G	. State Facility's ID					
WAYNE DISPOSAL (HQ) A 49350 M-I 94 SERVICE DR.	Wallett Frankling		. Facility's Phone	1,				
BELLEVILLE, HI 48111	MID WECGOE33		800-53	2-5-489				
11, US DOT Cescription (including Proper Shipping Nation 10 NUMBER).		12. Contains	rs 13. Total	I4. L. Waste Unit No. We/Vol				
RQ HAZABDOUS WASTE SOI 9, WA 3077 ENDOSULPAN I				1.1.5				
		00 10	400018					
b.								
c.								
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d.								
APPROVAL 071902 WAB 15. Special Handling Instructions and Additional Inform 24 HOUR R		•••)-ZD	b				
16. GENERATOR'S CERTEICATION. I hereby declare that the contents of this consignment are fully and accurately described above by proper snipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international not maintain all government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined by the accordinately practicable and that I have selected the practicable mothod of treatment, storage, or disposal currently available to me which minimizes that present and future threat to human health and the environment. Oil: If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can efford. Date Printed/, yped Name Signature Signature								
19k 400 1 thun As 45cl ton 2010	age to	1/1-1	'	COSISION				
17. Transporter 1Acknowledgement of Receipt of Mat		7		Date				
DRAJ. TY ATTHEWS		Tall	PIL	OZPADK Wouth Day Year				
18. Transporter 2 Acknowledgement of Receipt of Mat				Date				
Printed/Typed Name	Signature			Month Day Your				
19. Discrepancy Indication Space								
		·						
20. Facility Owner or Operator: Certification of receipt	of Mazardous materials covered by t	his manifest a	xcept as noted in					
Item 19	<i>I</i> (*)	Л	/	Date				
	∠ ! \							

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MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1400-212-1106 OR OUT OF STATE AT SIT-373-7469 AND THE MATIONAL 1400-224-4706 OR OUT OF STATE AT SIT-373-7469 AND THE MATIONAL

EPA Form 8700-22 (Rev. 8/28) .

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Required under authority of Part 121 and Part 121 of Act 451, 1994, as amended.

Faturing the may subject you to chart at end/or civil penalties under Sections 224,11151 or 324,12116 MCL

À		UNIFORM HAZARDOUS 1. Generator's US E		anifest iment No.	2. Page 1		on in the sheded areas required by Federal		
		WASTE MANIFEST N40 0007	47799		of #	ievy.			
	3.	Generator's Name and Mailing Address CORNELL UNIVERSITY, L.I. H.R.E		A. State Manifest Document Number MI 8253680					
		3059 SOURD AVENUE, RIVERHEAD,		MI 825368U B. State Generator's ID-0					
	4.	Generator's Phone (631) 727-3595		101W-0345921-0H					
İ		Transporter 1 Company Name 8.		C. State Transporter's					
		LL STATE POWER VAC	/7	D. Transporter's Phone 2 27 C/F 0/2					
Ì	7.	Transporter 3 Company Name 8.		E. State Transporter's ID 300 FC 400					
	_	SAME	F. Transporter's Phone						
	9,	Designated Facility Name and Site Address 10. HATE DISPOSAL (EQ)	G. State Facility's IO						
		49350 H-I 94 SERVICE DE.	1	H. Facility's Phone					
	l	BELLEVILLE, HI 48111	3	800552.5489					
	11,	US DOT Description lincluding Proper Shipping Name, Hezard (12. Conta	eneni:	13.	14. i. Waste		
		HM ID NUMBER).		No.			Init No.		
	a. ¥	RQ HAZARDOUS WASTE SOILD W.O.	3.		!				
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	J.	Additional Descriptions for Materials Listed Above	BOX	-50	4-Z-C)	K. Handling Codes		
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		APPROVAL 071902 WAR					2		
			•				4		
∐	15.	Special Handling Instructions and Additional Information							
1		24 HOUR THERGENC	v # 800-965-	3478		10 100	<u>.</u>		
		<u> </u>							
H	16.	GENERATOR'S CERTIFICATION: Thereby declars that the contents of this or packed, marked, and labeled, and are in all respects in proper condition for	onsignment are fully and according to the second by highway second by highway second to the second s	urately desc ing to appli	yd eygda bedin Giffanselni side:	proper shippii nel and dation	ng name and are classified. all government regulations.		
-		If I am a large quantity generator, I certify that I have a program in pito be economically practicable and that I have selected the practicable	iscs to raduce the volume .	and (outly	of weste gen	erated to the	degrae I have determined		
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FROM : ALLIEDWASTE

FAX NO. : 516 8689844

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PAGE 08/08

WAYNE DISPOSAL, INC. EQ-The Environmental Quality Company

48350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ALLIED WASTE SERVICES, INC.

Receipt ID: 1109349

2163 MERRICK AVENUE MERRICK, NY 11588

EQ Account #: 1448

Manifest: Mi6263682

Shipper:

HALLSTATE Dam: 08/01/2002 Time in: 234 PM

Time Out: 3:25 PM

Lines Approved/Service Generater

NHCS

Wests Cods Bill Unit Gross NYDOOD747788 CORNELL UNIVERSITY

Quantily

01 071902WAB

TONS

78,060 42,600

Tere

35,460 17,730

Persetuai Cara Surcharge

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all Kebility not caused by the gross negligence or willful misconduct.

DELIVERED BY

NO SALVADING ON PREMISES Page 1 of 1

EASTERN ENV SOLS.

PAGE 07

FROM : ALLIEDUASTE

88:15 B8:15

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FAX NO. 516 9689844

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PAGE 87/88

WAYNE DISPOSAL, INC **EQ-The Environmental Quality Company**

49290 North I-84 Service Drive, Belleville, Michigan 48111

Repeipt

ALLIED WASTE SERVICES, INC.

2169 MERRICK AVENUE MERRICK, NY 11686

Receipt 10: 1109382 EQ Account & TABL

Manifest: MIE253680

Shipper.

Houler: ALL STATE Data: 08/01/2002 Time le: 7:18 AM Time Out: 8:10 AM

Lines Approval/Service Generates

01 071902WAB

Waste Gody Bill Unit Gross TRIE NYODOO74778 CORNELL UNIVERSITY

79,080

42,620

Net

37,450

Quantity

18,730

NHCS TONS Perpetusi Care Surcharge

if understand and acknowledge that only into an EQ environmental protection facility is permitted only at my own risk. I, both pursonally and on behalf of my amployer, release EQ-the Environmental Quality Company from any and all lability

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EASTERN ENV SOLS.

PAGE

FROM : ALL IEDWASTE

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Aug. 02 2002 12:19PM F3

WAYNE DISPOSAL, INC EQ-The Environmental Quality Company 48360 North 1-84 Service Drive, Belleville, Michigan 48111

Receipt

ALLIED WASTE SERVICES, INC.

2183 MERRICK AVENUE MERRICK, NY 11586

Receipt ID: 1108365

EQ Account & 1449

Manifest MI8253885

Shipper.

Quantity

Hader: ALL STATE Date: 07/31/2002 Time In: 7:44 AM Time Out: 8:50 AM

Line# Approval/Bervice Charterstor

Winter Code Bill Unit Gross Tare 01 071802WAB NY0000747799 CORNELL UNIVERSITY TON8

74,020 43,540 31,380 15.890

Perpetual Cure Surcharge

I understand and acknowledge that entry into an EQ environmental profession facility is permitted only at my own risk.), both poreonally and on behalf of my employer, release EQ-ine Environmental Quality Company from any and all liability not caused by his prose negligiones or willful misconduct.

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NO SALVAGING ON PRIDMES Page 7 of 1

FROM : PLLIEDURSTE

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Aug. 02 2002 12:18PM P2

PAGE 05/09

WAYNE DISPOSAL, INC EQ-The Environmental Quality Company 49350 North I-34 Service Drive, Belleville, Michigan 48111

Receipt

ALLIED WASTE SERVICES, INC

2163 MERRICK AVENUE MERRICK, NY 11588 Receipt #0: 1109354 EQ Account#: 1449

Manifest: MI8253879

Shipper:

Houser: ALL STATE Data: 07/30/2002 Time in: 7:50 AM Time Out: 9:16 AM

Lines Approval/Service Generator

Winds Code Bill Unit Group Tare Net Quantity

01 071902WAB NY0000747799 CORNELL UNIVERSITY

NHCS TONS 77,000 39,880 37,120 18.560

Perpetual Care Surcharge

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk.

I, both personally and on behalf of my employer, release EQ-the Environmental Quality Company from any and all subdity not caused by its gross negligence or want introduct.

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PORT 1 of 1

FROM : ALLJEDWASTE

88/82/2002 88:15

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Aug. 02 2002 12:20PM PS

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PAGE 83/69

WAYNE DISPOSAL, INC EQ-The Environmental Quality Company

48386 North I-84 Barvice Drive, Belleville, Michigan 48111

Receipt

ALLIED WASTE BERVICES, INC

2163 MERRICK AVENUE MERRICK, NY 11586

Name of the 1000005

EQ Account 9: 1448

Manifest M8263684

Shipper:

Hauler: ALL STATE Dam: 07/25/2002 There in: 8:36 AM

Tierre Out: 9:33 AM

Linual Approval/Service Generator

NHC3

01 071902WAB

Waste Code RM Unit Gross

TON8

18005925329

Tare NY0000747789 COMMELLUNIVERSITY 79,060 41,240

Quantity

37,820 18 B10

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I understand and acknowledge that entry into an EQ emironmental protection facility is permitted only at my own risk. I, both personally and on bahalf of my employer, release EO-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful meconduct.

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Aug. 02 2002 12:19PM P4 PAGE 84/86

WAYNE DISPOSAL, INC EQ-The Environmental Quality Company 48350 North 1-94 Service Drive, Belleville, Michigan 48111

Receipt

ALLIED WASTE SERVICES, INC.

2183 MERRICK AVENUE MERRICK, NY 15588

Receipt ID: 1109351

EQ Account #: 1449 Marifest MI82536B1

Bhisper:

Hauter: ALL STATE Date: 07/30/2002 Time In: 7:07 AM Tione Out: 8:30 AM

Lines Approval/Service Constator

Waste Code Bill Unit Gross 01 071902WAB

Quantity

NY0000747799 CORNELL UNIVERSITY YONS NHCB 77,520

40,980 36,540 18,270

Perpetual Care Surcharge

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NO SALVAGING ON PREMISES Page 1 of 1

I understand and solonomedge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EO-the Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

FROM : ALL EDURATE

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FAX NO. : 516 8689844

Aug, 02 2002 12.21PM P6 PAGE 01/08

WAYNE DISPOSAL, INC EQ-The Environmental Quality Company

48380 North I-94 Service Orive, Belleville, Michigan 48111

Receipt

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVENUE MERRICK, NY 11566

Neceipt ID; 1109300

EQ Account #: 1449

Manifest ME253663

Shipper:

Hauler: ALL STATE Date: 07/26/2002 Time In: 7:06 AM Time Out 8:28 AM

Line# Approval/Service Generator

01 071902WAB

Waste Code Bill Unit Gross NY0000747799 CORNE LUNIVERSITY

Tare Net

Quantity

NHCS TONS 77,960 41,120 26,840 18.420

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I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk.), both personally and on behalf of my employer, referee EQ-the Environmental Quelity Company from any and all field-lifty not caused by its gross nepligence or willful misconduct.

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