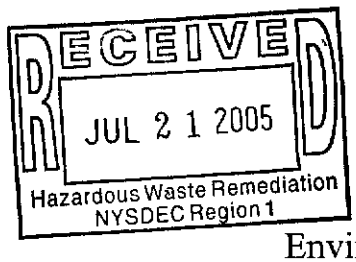
Post-Remediation Final Report

Soil Cap and Groundwater Monitoring Actions

Cornell University

Long Island Horticulture Research & Extension Center

Riverhead, New York



Prepared by:

Environmental Compliance Office

Cornell University, Ithaca NY

Steve Beyers, P.E.

July 2005

July 2005

Section I: Overview

1.1 Introduction and Purpose

This Post-Remedial Final Report documents the remedial work (the "Project") completed at the Long Island Horticulture Research and Extension Center in Riverside, New York. The work is entitled "post-remedial" to differentiate it from the prior Remedial Work Plan (ref 1) generated, approved, and implemented at the site.

The work was done in accordance with the Work Plan (reference 3) entitled "Post Remediation Work Plan, Soil Cap and Groundwater Monitoring Actions", dated June 2004 (as revised June 2005).

This Project site is the subject of a Voluntary Clean-Up Program (VCP) Agreement between Cornell University, representing the Center, and the New York State Department of Environmental Conservation, representing the State's public environmental interest. The review and approval authority for this work is the NYSDEC. While Post-Remediation Work Plans are not specifically indicated as components of the VCP process as described in that Agreement, this Project is an outgrowth of the Remedial Work Plan described therein.

The scope of work completed as part of this Project was as negotiated between the New York Department of Environmental Conservation (NYSDEC), represented by their Region 1, Division of Environmental Remediation Bureau of Hazardous Waste Office (Jamie Ascher, Engineering Geologist 2, Project Manager) and Cornell University, represented by the Cornell's Environmental Compliance office (Steve Beyers, P.E., Project Manager) located in Ithaca New York, Cornell's main campus location. This additional work was requested by the NYSDEC based on their review of the Final Report (ref 2) prepared for the remedial work included in the implemented Work Plan (ref 1).

1.2 Work Completed Prior to this Post-Remedial Action

Initial work including cleaning and removal of a pesticide-contaminated sump, removal of visually-impacted soils, and development and testing of groundwater wells was completed under an Interim Remedial Measure (IRM). This IRM work occurred in 1994.

Following the IRM work, the implemented Work Plan (ref 1) included the following approved scope of work:

1. Collection and analysis of water samples from five wells, four of which existed prior to the work plan approval and one additional well installed and developed as part of the Work Plan scope;

2. Removal and disposal of an overflow drywell (precast structure) and rock drain, as well as contaminated soils beneath the drywell and drain structures, including the following sub-tasks:

- Installation of sheeting and shoring in the two work areas.
- Excavation of pesticide-impacted soils from beneath the Overflow Drywell (to approximately 16' below grade) and from the Rock Drain Area (to approximately 12' below grade).
- Waste characterization sampling and analysis.
- Confirmatory soil sampling at the terminus (bottom and sidewalls) of the excavations to document the level of pesticide residuals that remained in the soil.
- Transportation and disposal of pesticide-impacted media.
- Removal and decontamination of sheeting and shoring.
- Backfilling of the excavated Overflow Drywell and Rock Drain Area.

Removal of impacted soil and structures during the IRM and remedial work eliminated principal areas of contamination at the site and severely reduced the potential of future migration of contaminants from these areas into surrounding soils or groundwater.

1.3 Rationale for Additional Work

The NYSDEC, in discussion with the NYSDOH, requested the additional measures included in the "Post-Remediation Work Plan" (ref 3) to provide further assurances of the protection of the environment and specifically of groundwater below these remedial areas.

The NYSDEC concluded, after discussion with the NYSDOH, that additional actions, consisting of the installation of a "cap" vertically above the impacted area and two more rounds of groundwater sampling, were needed to confirm the lack of impact on water resources. This Final Report documents completion of these additional actions.

Section II: Documentation of Work Completed

2.1 Work Completed and Documented in this Final Report

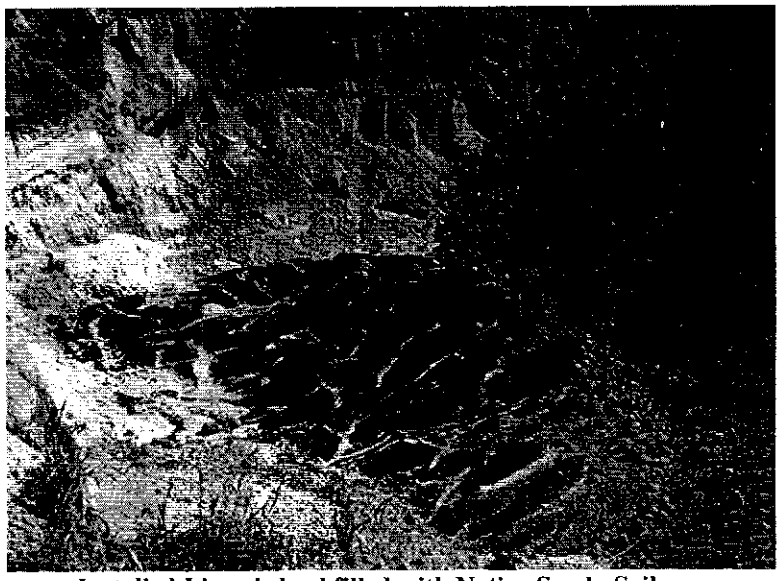
The following additional work was completed at the site:

- An impervious cap was installed over the former overflow drywell/sump area. This cap, installed in September and October 2004, included a 20 mil polyethylene liner measuring 15' by 15' installed 6' below finish grade, so as to avoid surface activities. The liner was centered directly over the previous 8' diameter drywell, installed so as to prevent direct (vertically downward) water filtration through the area in which the soils were previously removed. The liner was also installed with a slight pitch from a center high point to slightly lower edges to encourage the material to "drain" outward. Because the previous remedial work included removal of contaminated soils down to a depth of 12-16 feet, the impervious cap was constructed in an area of "clean"

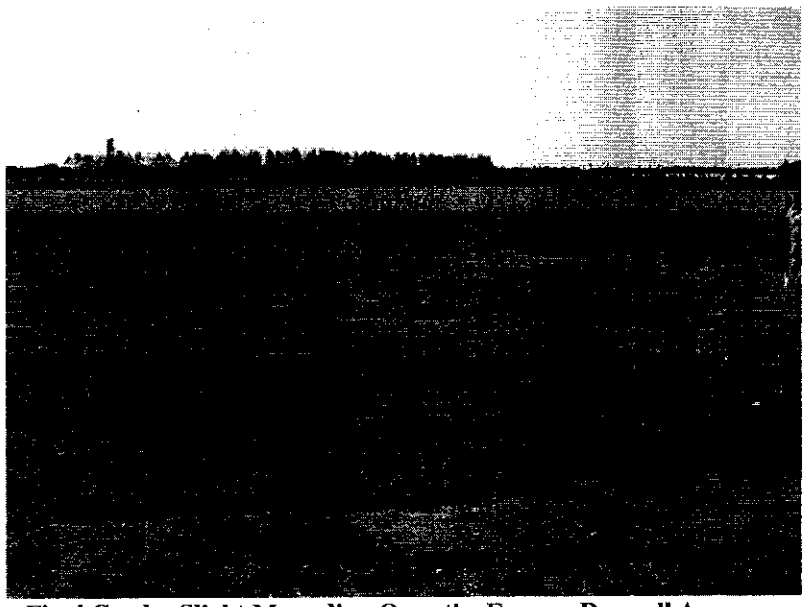
imported soils and therefore did not subject workers to chemical risks from past contaminants removed during that prior work.

Excavation Beings Over Former Drywell Area

- The "capped" area was backfilled with local material mounded slightly so as not to encourage excessive surface water intrusion into the area above the liner.



Installed Liner is backfilled with Native Sandy Soil



Final Grade: Slight Mounding Over the Former Drywell Area

- Two additional rounds of groundwater sampling, conducted at approximately 6-month intervals, were completed by the environmental consulting firm H2M using the sampling protocol developed by that firm and approved during the implemented Remedial Work Plan. This sampling program utilized the same wells and sampled contituents as the sampling completed as part of the original Work Plan scope.

  Both of these sampling rounds produced the same results: *none of the tested compounds were identified at levels at or above their respective method detection limits.* Copies of the testing results are included as Appendix A.

- A deed restriction for the site, describing the specific contaminants and contaminant locations, is being prepared to avoid inadvertent development in these areas (at these depths). Conditions of the deed restriction are based on the template specified in the VCA, with appropriate site-specific language as negotiated between a NYSDEC attorney and Cornell's legal staff to ensure that the terms of the restriction of this land, owned by New York State, are appropriate.

- Cornell University will provide an annual certification, prepared and submitted by a professional engineer or environmental professional acceptable to the Department, certifying that the institutional controls and engineering controls put in place, pursuant to the executed voluntary cleanup agreement, are still in place, have not been altered and are still effective. Cornell intends to continue providing an annual certification until the NYSDEC notifies Cornell in writing that this certification is no longer needed.

- Cornell University will submit, for NYSDEC approval, a soil management plan should it be necessary to perform excavation activities at this location at a depth

beneath previous remedial activities (below about 12' from ground surface in this area). The plan will include, but not be limited to, the nature and extent of the excavation activities, an estimate of the volume of soil to be excavated, soil characterization and, where applicable, disposal/reuse in accordance with NYSDEC regulations. Note, however, that Cornell has no plans to excavate in this area at such depth anytime in the future.

Section III: Health and Safety

The work of the post-remediation was unlike past remedial work at the site. In that project, neither workers nor the public came into contact with hazardous or toxic substances, since all excavation occurred at depths in which formerly impacted soils were replaced with clean soils. Water sampling also did not require any unusual health and safety precautions, as groundwater sampling continued to reveal no measurable levels of contaminants (past measurements revealed only minor traces of such contaminants). The work was completed without any reportable injuries or accidents.

Section IV: Reporting and VCA Close-Out

4.1 Final Report

This Final Report documents the work performed. By submission of this Report, the Engineer hereby asserts that all work has been completed in accordance with the approved Post-Remedial Work Plan. No future work is recommended.

4.2 VCA Close-Out

Cornell University understands that there will be no further requirements for sampling or analysis associated with this Voluntary Clean-Up Agreement (VCA). We understand that upon review of these results by the NYSDEC, Cornell will receive from the NYSDEC the site release documentation referenced in the VCA.

SECTION VI: References

The following referenced documents were referenced in this Report:

1. *Groundwater Investigation and Soil Remediation Work Plan*, prepared for Cornell by Holzmacher, McLendon, & Murrell, P.C., April 2002 ("Remedial Work Plan")
2. *Groundwater Investigation and Soil Remediation Summary Report*, prepared for Cornell by Holzmacher, McLendon, & Murrell, P.C., January 2003 ("Final Report").
3. *Post-Remediation Work Plan: Soil Cap and Groundwater Monitoring Actions*, Cornell University, June 2004 (revised June 2005).

APPENDIX A
Groundwater Monitoring Results

The eight pages that follow provide groundwater monitoring results at four wells which were constructed and developed during prior phases of work at the Long Island Horticulture Research and Extension site. The monitoring wells were sampled on January 11, 2005 and June 17, 2005, respectively. All samples results indicate no pesticides were identified above the respective method detection limits in any of the sampled wells.

H2M LABS, INC.

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

LABORATORY RESULTS

Cornell L.I. H.R.I.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : 0501249-001A

Client ID. : MW-1

Sample Information...
Type : Waste Water

Origin:

Collected 1/11/2005 10:20:00 AM
Received 1/11/2005 2:50:00 PM
Collected By : VG
Copy : C. Flynn
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
beta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
delta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
Heptachlor	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
Aldrin	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
Dieldrin	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
Endrin	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	01/19/2005 7:22 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	01/19/2005 7:22 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 7:22 PM
Toxaphene	< 5.0		1	µg/L	SW8081	01/19/2005 7:22 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor

Joann M. Flavin
Laboratory Manager

Date Reported : 1/20/2005

H2M LABS, INC.

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

LABORATORY RESULTS

Cornell L.I. H.R.L.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : **0501249-002A**

Client ID. : MW-2

Sample Information...
Type : Waste Water

Origin:

Collected 1/11/2005 10:45:00 AM
Received 1/11/2005 2:50:00 PM
Collected By : VG
Copy : C. Flynn
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
beta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
delta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
Heptachlor	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
Aldrin	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
Dieldrin	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
Endrin	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	01/19/2005 7:54 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	01/19/2005 7:54 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 7:54 PM
Toxaphene	< 5.0		1	µg/L	SW8081	01/19/2005 7:54 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor

Joann M. Slavin
Laboratory Manager

Date Reported : 1/20/2005

H2M LABS, INC.

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

LABORATORY RESULTS

Cornell L.I. H.R.L.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : 0501249-003A

Client ID. : MW-3

Sample Information...
Type : Waste Water

Origin:

Collected 1/11/2005 11:30:00 AM
Received 1/11/2005 2:50:00 PM
Collected By : VG
Copy : C. Flynn
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
beta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
delta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
Heptachlor	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
Aldrin	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
Dieldrin	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
Endrin	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	01/19/2005 8:27 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	01/19/2005 8:27 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 8:27 PM
Toxaphene	< 5.0		1	µg/L	SW8081	01/19/2005 8:27 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Joann M. Slavin

Laboratory Manager

Date Reported : 1/20/2005

H2M LABS, INC.

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

LABORATORY RESULTS

Cornell L.I. H.R.L.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : 0501249-004A

Client ID. : MW-4

Sample Information...
Type : Waste Water

Origin:

Collected 1/11/2005 1:30:00 PM
Received 1/11/2005 2:50:00 PM
Collected By : VG
Copy : C. Flynn
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
beta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
delta-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
Heptachlor	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
Aldrin	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
Dieldrin	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
Endrin	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	01/19/2005 8:59 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	01/19/2005 8:59 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	01/19/2005 8:59 PM
Toxaphene	< 5.0		1	µg/L	SW8081	01/19/2005 8:59 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Joann M. Slavin

Laboratory Manager

Date Reported : 1/20/2005

H2M LABS, INC.

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

LABORATORY RESULTS

Cornell L.I. H.R.L.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : **0506577-001A**

Sample Information...
Type : Groundwater

Origin:

Client ID. : MW-3

Collected 6/17/2005 8:40:00 AM
Received 6/17/2005 12:40:00 PM
Collected By : VG03
Copy : **Original**
CC ; CJF

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
beta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
delta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
Heptachlor	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
Aldrin	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
Dieldrin	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
Endrin	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	06/25/2005 2:37 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	06/25/2005 2:37 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 2:37 PM
Toxaphene	< 5.0		1	µg/L	SW8081	06/25/2005 2:37 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Joann M. Slavin

Laboratory Manager

Date Reported : 7/7/2005

H2M LABS, INC.

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

LABORATORY RESULTS

Cornell L.I. H.R.L.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : **0506577-002A**

Client ID. : MW-4

Sample Information...
Type : Groundwater

Origin:

Collected 6/17/2005 9:30:00 AM
Received 6/17/2005 12:40:00 PM
Collected By : VG03

Copy : Original

CC ; CJF

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
beta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
delta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
Heptachlor	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
Aldrin	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
Dieldrin	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
Endrin	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	06/25/2005 3:06 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	06/25/2005 3:06 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 3:06 PM
Toxaphene	< 5.0		1	µg/L	SW8081	06/25/2005 3:06 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Joann M. Slavin

Laboratory Manager

Date Reported : 7/7/2005

H2M LABS, INC.

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

LABORATORY RESULTS

Cornell L.I. H.R.L.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : **0506577-003A**

Sample Information...
Type : Groundwater

Origin:

Client ID. : MW-1

Collected 6/17/2005 10:20:00 AM
Received 6/17/2005 12:40:00 PM
Collected By : VG03

Copy : Original

CC ; CJF

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
beta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
delta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
Heptachlor	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
Aldrin	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
Dieldrin	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
Endrin	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	06/25/2005 3:35 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	06/25/2005 3:35 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 3:35 PM
Toxaphene	< 5.0		1	µg/L	SW8081	06/25/2005 3:35 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Joann M. Slavin

Laboratory Manager

Date Reported : 7/7/2005

H2M LABS, INC.

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

LABORATORY RESULTS

Comell L.I. H.R.L.
39 Sound Ave.
Riverhead, NY 11901
Attn To :

Lab No. : **0506577-004A**

Sample Information...
Type : Groundwater

Origin:

Client ID. : MW-2

Collected 6/17/2005 11:10:00 AM
Received 6/17/2005 12:40:00 PM
Collected By : VG03
Copy : Original
CC ; CJF

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
alpha-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
beta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
delta-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
gamma-BHC	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
Heptachlor	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
Aldrin	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
Heptachlor epoxide	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
Endosulfan I	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
Dieldrin	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
4,4'-DDE	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
Endrin	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
Endosulfan II	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
4,4'-DDD	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
Endosulfan sulfate	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
4,4'-DDT	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
Methoxychlor	< 0.50		1	µg/L	SW8081	06/25/2005 4:03 PM
Endrin ketone	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
Endrin aldehyde	< 0.10		1	µg/L	SW8081	06/25/2005 4:03 PM
alpha-chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
gamma-Chlordane	< 0.050		1	µg/L	SW8081	06/25/2005 4:03 PM
Toxaphene	< 5.0		1	µg/L	SW8081	06/25/2005 4:03 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Joann M. Slavin

Laboratory Manager

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