Brown AND Caldwell

234 Hudson Avenue
Albany, New York 12210
Tel: 518-472-1988
Fax: 518-472-1986

# Technical Memorandum

**Date:** October 26, 2010

**To:** Henry Wilkie, Environmental Engineer 1, DEC

**From:** Frank Williams, Supervising Geologist

**Copy to:** Jamie Ascher, Engineering Geologist, DEC Region 1

**Prepared for:** F. A. Bartlett Tree Expert Company

**Subject:** Bartlett Tree Company Site #1-30-074

Remediation and Investigation-Derived Waste Disposal

**Project No:** 139990.300

This memorandum and its attachments constitute an application for a "contained in" determination by the DEC regarding wastes generated at the Bartlett Tree Company Site (DEC Site Registry no. 1-30-074).

## Background

The Bartlett Tree Company Site is located at 345 Union Avenue in the Village of Westbury, Town of North Hempstead, Nassau County, New York (the Site). The Site is located in an urban, mixed-use neighborhood of commercial and industrial facilities and residences, and consists of a narrow parcel of land measuring approximately 340 feet in length by 60 feet wide, totaling approximately 0.4 acres (see Attachment A – Site Plan). F. A. Bartlett Tree Expert Company (Bartlett) has utilized the Site since the mid-1950's as a base for tree care operations.

In April 1990, an anonymous caller to the DEC alleged that pesticides and herbicides were periodically placed into an on-site drywell (Drywell 1) in the northern portion of the property, prior to abandonment of the drywell in 1983. Specific pesticides were named, including Malathion, DDT, Sevin, chlordane and lead spray for fruit trees. A preliminary site assessment (PSA) was performed in 1996-1998 by a contractor for the DEC. The PSA identified pesticides in soil samples taken from under Drywell 1 in excess of the TAGM 4046 recommended soil cleanup objectives that were in effect at the time. On the basis of this information the DEC added the Site to its registry of inactive hazardous waste sites (see Attachment B – Class 2 Listing Package), stating that the disposal of the following listed hazardous wastes had been confirmed:

- Dieldrin (P037)
- Endrin (P051)

- alpha-Chlordane (U036)
- 4,4-DDD (U060)
- 4,4-DDT (U061)
- gamma-BHC (Lindane, U129)

Remedial Investigation

In 2007 Bartlett entered into a consent order with the DEC, agreeing to remediate the Site. On behalf of Bartlett, Brown and Caldwell has been conducting a remedial investigation (RI) of the Site. The RI has included the collection of soil and groundwater samples in the vicinity of Drywell 1. One soil boring, SB-10, was advanced through the base of Drywell 1 to a depth of 40 feet. Analytical results for soil samples from boring SB-10 indicate the presence of the following pesticides at concentrations greater than the applicable 6NYCRR Subpart 375-6 Soil Cleanup Objectives (SCOs) for Protection of Public Health – Commercial Use, and Protection of Groundwater:

- 4,4-DDT
- 4,4-DDD
- Aldrin
- Dieldrin
- gamma-BHC (Lindane)

Other pesticides were detected at concentrations less than the applicable SCOs. A summary of all the analytical results for boring SB-10 may be found in Attachment C (Table 4, Supplemental RI Data Summary Report, Brown and Caldwell, August 2010). The original laboratory report for the soil samples is provided in Attachment D. Groundwater data from monitoring wells in the vicinity of Drywell 1 indicate the presence of 4,4-DDT; Dieldrin; Endrin and gamma-BHC at concentrations in excess of the 6NYCRR Part 703 groundwater standards.

Investigation-derived wastes (IDW), including soil cuttings from the SB-10 boring, were placed in 55-gallon drums and are currently stored on site pending waste classification.

Interim Remedial Measure

Based on the soil and groundwater data, BC recommended that Bartlett prepare an Interim Remedial Measure (IRM) Work Plan to address impacted soil under Drywell 1. The DEC concurred with this recommendation by letter dated October 12, 2010. It is anticipated that the IRM will consist of excavation and off-site disposal of impacted soils in an area measuring approximately 20' by 20' and extending to depth of approximately 30'. Due to the small size of the site and available work area, it will not be possible to stockpile excavated soil on site pending waste characterization. Rather, the soil will have to be excavated and loaded directly into vehicles for transportation to a disposal facility. For this reason, we plan on characterizing the IRM waste *in-situ* by advancing soil borings before mobilizing for the soil excavation.

Waste Classification

Bartlett is requesting DEC's approval to classify the drummed IDW and the IRM waste as hazardous or non-hazardous based solely on testing for RCRA characteristics, including the toxicity characteristic by TCLP. Though unlikely, there is a theoretical possibility that some soils

associated with Drywell 1 may exceed the regulatory limits specified in 40 CFR Subpart 261.24. Table 1 (below) lists the toxicity characteristic parameters that were detected in site soils with the maximum total concentrations in SB-10. The table compares the maximum concentration with the TCLP regulatory level multiplied by a factor of 20 to account for the 20-fold dilution in the TCLP method.

**Table 1 – Toxicity Characteristic Parameters Detected in Site Soils**

| EPA Hazardous Waste Number | Contaminant | Regulatory Level (mg/L by TCLP) | Regulatory Level x 20 | Maximum Concentration in SB-10 (mg/kg) |
|---|---|---|---|---|
| D020 | Chlordane | 0.03 | 0.6 | 3.8 |
| D016 | 2,4-D | 10.0 | 200 | ND |
| D012 | Endrin | 0.02 | 0.4 | ND |
| D013 | Lindane | 0.4 | 8 | 9.1 |
| D014 | Methoxychlor | 10.0 | 200 | 93 |
| D017 | 2,4,5-TP | 1.0 | 20 | ND |

ND – not detected

Assuming 100% leaching of the contaminant, some of the soils sampled in SB-10 could exhibit the toxicity characteristic for Chlordane and Lindane. However, pesticides typically have relatively low solubility and strong chemical affinity for soil, making the assumption of 100% leaching highly conservative.

The IRM work plan currently being prepared will specify the sampling density (horizontal and vertical placement of soil samples) for *in-situ* waste characterization in the area of Drywell 1. The waste characterization soil samples will be analyzed by TCLP, Method 1311 for the toxicity characteristic parameters, and will also be analyzed for any other waste characterization parameters required by the prospective disposal facility. Wastes not exceeding the regulatory limits specified in 40 CFR Subpart 261.24 would be disposed of at a Part 360 permitted solid waste disposal facility. Any wastes exceeding the same regulatory limits would be disposed of in a RCRA Subtitle C facility.

ATTACHMENT A

## Site Plan

N

A'

A

B

B'

VILLAGE OF WESTBURY
PARKING LOT

Building

Chain link Fence

Grate=104.28
Storm MH

SB-11
MW-1D
MW-1S

Concrete Curb

Wood Fence

Edge of Pavement

0.2'

0.4'

SB-12
SB-7
FORMER
OPEN
SHED

TEST PIT 1
MACADAM PATCH
TP-1

SB-4
SB-3
SB-10
SB-5
MW-4

DRYWELL 1

SB-1

MW-2D
MW-2S
MW-3

MASONRY
WAREHOUSE

SB-6
FORMER
PESTICIDE
STORAGE
LOCKER

MW-5

SB-9
FORMER
GARAGE

SB-2

Remains of Foundation

LOT 786
LOT 787
LOT 792
LOT 207
LOT 206

Paved
Parking
Lot

DRYWELL 3

TEST PIT 2
MACADAM PATCH

SB-8
TP-2

Enclosed
Pesticide
Storage
Area

Drain & Lower
Entrance
(Under Landing)

Gate

2 Story
Frame
Building

CASTLE INDUSTRIES, INC.

Paved
Driveway

No. 345
No. 349

4.9'

WV
SCO
Gas
Box

ALL SEASONS TAXI

Concrete Curb
Drop Curb
Concrete Sidewalk

UNION AVENUE

Sanitary MH
Rim=98.22

0 15 30
Feet

CROSS SECTION
MONITORING WELL
SOIL BORING
DRYWELL
TEST PIT
PAVEMENT EDGE
103 GROUND SURFACE ELEVATION (FT., NGVD)
PROPERTY LINE
FORMER STUCTURE LOCATION
(APPROXIMATE, DEMOLISHED JULY 2008)

FIGURE 2

SITE PLAN

BARTLETT TREE COMPANY SITE
WESTBURY, NEW YORK

DATE
April 2010

PROJECT NUMBER
138944

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:\GIS\Bartlett_Tree\2010_Data-Summary_Report\Site_Plan_050610.mxd

ATTACHMENT B

# Class 2 Listing Package

130074

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control

ADDITIONS/CHANGES TO REGISTRY: SUMMARY OF APPROVALS

SITE NAME: BARTLETT TREE COMPANY DEC I.D. NUMBER 130074

Current Classification _____ Volunteer Yes ____ No ✓
Sign (7) below

Activity: ☑ Add as Class 2 ☐ Reclassify to ____ ☐ Delist Categor ____ ☐ Modify ____

Approvals:

| | | | | | |
|---|---|---|---|---|---|
| 1. Regional Hazardous Waste Engineer | Yes | ✓ | No | | |
| 2. BEEI of NYSDOH | Yes | ✓ | No | | |
| 3. DEE | Yes | ✓ | No | | |
| 4. _____ Remediation Action Bureau Director [Class 2] | Yes | ✓ | No | | |
| 5. BHSC - Investigation Section | Yes | ✓ | No | | |
| 6. BHSC - O&M Section [Class 4] | Yes | n/a | No | | |
| 7. BPM - Brownfield & Voluntary Cleanup Section | Cwabonick for GCostopoulos | | | Date 1/27/00 | |
| 8. Site Control Section | Robert P Martin | | | Date 2/10/00 | |
| 9. Director | [signature] | | | Date 3/13/00 | |

Completion Checklist for Registry Sites

| | | Completed By: Initials | Date |
|---|---|---|---|
| OWNER NOTIFICATION LETTER? | ✓ | | 3/23/00 |
| ADJACENT PROPERTY OWNER NOTIFICATION LETTER? | ✓ | | 4/7/00 |
| ENB/LEGAL NOTICE SENT? (For Deletion Only) | | | |
| COMMENTS SUMMARIZED/PLACE IN REPOSITORY? | | | |
| FINAL NOTIFICATION SENT TO OWNER? (For Deletion Only) | | | |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

# SITE INVESTIGATION INFORMATION

| 1. SITE NAME | 2. SITE NUMBER | 3. TOWN/CITY/VILLAGE | 4. COUNTY |
|---|---|---|---|
| Bartlett Tree Company | 130074 | Westbury | Nassau |

| 5. REGION | 6. CLASSIFICATION |
|---|---|
| 1 | CURRENT P PROPOSED 2 MODIFY |

**7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)**

a. Quadrangle Hicksville

b. Site Latitude _40_° _45_' _13_" Site Longitude _73_° _35_' _13_"

c. Tax Map Numbers Section 10, Block 228, Lot Nos. 206, 786

d. Site Street Address 345 Union Avenue, Westbury NY 11590

**8. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations)**

The Bartlett Tree Company is located on a narrow elongated property in Westbury, Nassau County. It consists of the original parcel of property (Lot 206), active and used by the company since the mid 1950s, plus a small strip of land running the length of the original property (Lot 786) on the west side purchased in the mid 1990s. There are three buildings on the site. The main building, a two-story brick and masonry structure, located at the south end of the site along Union Avenue is the office. Midway along the eastern side of the property are two adjoining buildings: a garage where the large equipment is stored and to the north, a shed where the pesticides are stores. The shed is fireproof and has a concrete floor. At the north end of the property is a one-sided open shed where the large mechanical equipment is stored. In 1990, the Region 1 office received an anonymous phone call reporting that pesticides were dumped into a dry well at the site. Specific pesticides and herbicides were named, including Malathion, DDT, Sevin, chlordane and lead spray for fruits. It was reported that from the mid 1950s until 1983 between 200 and 300 gallons of spray were periodically dumped into the dry well. The dry well was then allegedly filled with empty 5-gallon metal pesticide containers, covered with a metal manhole cover and paved over with asphalt. Previously, in 1987, representatives from Bartlett Tree Expert Company visited this site to investigate a 1987 report of an abandoned "cistern" that held empty pesticide containers. They found that the cistern was partially filled with water which they sampled and two pesticide containers (empty, crushed 5-gallon metal pails of Sevin). The herbicide diazinon was detected in the sample of standing water taken at a concentration of 0.61 ppm. Based on these results, the company determined that "the residue levels detected did not represent a level that could be considered harmful to human health or the environment." After their inspection, they had the dry well backfilled with sand. They then submitted a letter report to Nassau County Department of Health describing the inspection and closure of the dry well including a copy of the analytical results. A PSA was performed in 1996 which revealed that eight different pesticides were found beneath the dry well at levels that exceed the NYSDEC Class GA Groundwater Standards. Several chlorinated solvents (DCE, TCE, PCE) were found both upgradient and downgradient of the site suggesting an off-site source.

a. Area __0.4__ acres b. EPA ID Number _NY0001408749_____

c. Completed ( )Phase I ( )Phase II (X) PSA ( )RI/FS ( )PA/SI ( )Other

**9. HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers)**

EPA Hazardous Waste Number: Hazardous Waste

| | | |
|---|---|---|
| P037: Dieldrin | P051: Endrin | U036: alpha-Chlordane |
| U060: 4,4-DDD | U061: 4,4-DDT | U129: gamma-BHC [Lindane] |

**10. ANALYTICAL DATA AVAILABLE**

a. ( )Air (X)Groundwater ( )Surface Water (X)Sediment (X)Soil ( )Waste ( )Leachate ( )EPTox ( )TCLP

b. Contravention of Standards or Guidance Values

Contravention of Groundwater Standards @ DW-1

| | | |
|---|---|---|
| Dieldrin [ 0.11 ug/l (37'); 0.59 ug/l (62')] | Endrin [ 0.077 ug/l (37'); 0.098 ug/l (62')] | alpha-Chlordane [ 0.11 ug/l (62')] |
| 4,4-DDD [ 1.7 ug/l (37'); 6.0 ug/l (62')] | 4,4-DDT [19.0 ug/l (37'); 1.9 ug/l (62')] | gamma-BHC (Lindane) [ 0.63 ug/l (37'); 3.2 ug/l (62')] |

Standard: Diedrin; Endrin; 4,4-DDD; 4,4-DDT; gamma-BHC (Lindane) is ND (not detectable)
alpha-Chlordane is 0.1 ug/l

**11. CONCLUSION**

***The disposal of hazardous waste as defined by 6NYCRR Part 371 at this site has been confirmed based on the results of the environmental sampling. Soil samples collected in dry well DW-1 found gamma-BHC (Lindane), Dieldrin, 4,4-DDE, 4,4-DDD, and alpha-chlordane which may be the source of hazardous waste contamination found in the groundwater of monitoring well DW-1.***

**12. SITE DATA**

a. Nearest Surface Water: Distance __6800__ft. Direction __S_____ Classification __C(T)_____

b. Nearest Groundwater: Depth __37__ ft. Flow Direction __SW_____ (X)Sole Source ( )Primary ( )Principal

c. Nearest Water Supply: Distance __2030___ft. Direction __NW_____ Active (X)Yes ( )No

d. Nearest Building: Distance __250__ft. Direction __SW_____ Use __residence_____

| | | | | | |
|---|---|---|---|---|---|
| e. In State Economic Development Zone? | ( )Y | (X)N | i. Controlled Site Access? | ( )Y | (X)N |
| f. Crops or livestock on site? | ( )Y | (X)N | j. Exposed hazardous waste? | ( )Y | (X)N |
| g. Documented fish or wildlife mortality? | ( )Y | (X)N | k. HRS Score __--__ | | |
| h. Impact on special status fish or wildlife resource? | ( )Y | (X)N | l. For Class 2: Priority Category 2 | | |

| 13. SITE OWNER'S NAME | 14. ADDRESS | 15. TELEPHONE |
|---|---|---|
| F. A. Bartlett Tree Expert Company | P.O.Box 3067<br>Stamford CT 06905 | (203) 323-1131 |

| 16. PREPARER | 17. APPROVED |
|---|---|
| Mark P. Mateunas 8/21/97 | 3/13/00 |
| Signature Date | Signature Date |
| Mark P. Mateunas, P.E., Env. Eng. 2, EIS, BHSC | Earl H. Barcomb, Director, BHSC, DER |
| Name, Title, Organization | Name, Title, Organization |

DOH STATE OF NEW YORK
DEPARTMENT OF HEALTH
Flanigan Square, 547 River Street, Troy, New York 12180-2216

Antonia C. Novello, M.D., M.P.H.
*Commissioner*

Dennis P. Whalen
*Executive Deputy Commissioner*

January 5, 2000

Mr. Robert L. Marino, Chief
Bureau of Hazardous Site Control
Division of Environmental Remediation
NYS Dept. of Environmental Conservation
50 Wolf Road, Room 252
Albany, New York 12233-7010

JAN 12 2000

RE: Registry Site Classification Decision
Bartlett Tree (DOH #130074)
Westbury, Nassau County

Dear Mr. Marino:

My staff have reviewed the Registry Site Classification Decision package for the Bartlett Tree site in Westbury, Nassau County, New York.

The disposal of pesticides in a dry well at this site has resulted in significant contamination of subsurface soil. DDT and DDD have been detected in soil at concentrations up to 11,000 mg/kg and 680 mg/kg, respectively. Xylene and naphthalenes have been also been detected in soil, with concentrations ranging up to 440 and 334 mg/kg, respectively. Groundwater in the vicinity of the dry well is contaminated with pesticides and xylene. A public water supply well is present approximately one-half of a mile downgradient from the site. Additional environmental sampling is needed to determine the extent of soil and groundwater contamination at this site and to evaluate appropriate remedial options.

With this information, I support listing the site as a Class 2 site. The signed Site Investigation Information form is enclosed. Please notify the water suppliers on the enclosed list of this addition to the registry.

If you have any questions, please call Mr. Steve Bates of my staff at (518) 458-6305.

Sincerely,

G. Anders Carlson, Ph.D.
Director
Bureau of Environmental Exposure Investigation

Enclosures
cc: Dr. Kim
Mr. Bates/Mr. Gilday
Mr. C. Hodgman (NCDOH)
Mr. E. Barcomb (NYSDEC)
Mr. W. Parish (NYSDEC - Reg 1)
H:\WILLIAM\BARTLETL.WPD

1/13/95

# CLASSIFICATION WORKSHEET

Site: Bartlett Tree Company County: Nassau Region: 1

1. Hazardous waste disposed? [X] Y (to 2) [ ] N (Stop) [ ] U (Stop)
2. Consequential amount of hazardous waste? [X] Y (to 3) [ ] N (Stop) [ ] U (Stop)
3. Part 375-1.4(a)(1) applies? [ ] N (to 4) [ ] U (to 4)
   [X] Y (as checked below; Class 2; to 5)

- [ ] a. endangered or threatened species
- [ ] b. streams, wetlands or coastal zone
- [ ] c. bioaccumulation
- [ ] d. fish, shellfish, crustacea or wildlife
- [ ] e. fire, spill, explosion or toxic reaction
- [X] f. proximity to people or water supplies

4. Part 375-1.4(a)(2) applies? [ ] N (Cl 3; Stop) [ ] U (Cl 2a; Stop)
   [ ] Y (Class 2; to 5) _____

5. Factors considered in making this determination: The groundwater is contaminated with the following pesticides: Dieldrin; Endrin; alpha-Chlordane; 4,4-DDD; 4,4-DDT; and gamma-BHC (Lindane), all hazardous wastes as defined by 6NYCRR Part 371. The site is located in the central portion of Nassau County where groundwater flow has a strong downward component. This could impact deeper portions of Long Island's groundwater resources, which is a sole source aquifer.

SUMMARY

| | | | |
|---|---|---|---|
| Consequential Hazardous Waste | [X] Yes | [ ] No | [ ] Unknown |
| Significant Threat | [X] Yes | [ ] No | [ ] Unknown |

Proposed Classification: 2 Site Number: 130075

Date: July 6, 1999

Preparer: Mark P. Mateunas, P.E.
Title: Environmental Engineer 2

Mark P. Mateunas

11/17/94

NEW YORK STATE DEPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH
INACTIVE HAZARDOUS WASTE DISPOSAL SITE PRIORITY RANKING WORK

SITE I.D. _130075__ SITE NAME _Bartlett Tree Company_____

° **Priority I** - Sites for which remediation should supersede all other Class 2 sites. Priority I can be assigned if any one of the following questions can be answered affirmatively.

a) Has a public or private water supply which is currently in use been contaminated or threatened?..... [ ]
b) Has human exposure to contaminants (or the potential for exposure) been identified which represents a significant health risk as determined by DOH?..... [ ]
c) Has bioaccumulation of site contaminants in flora or fauna resulted in a health advisory?..... [ ]
d) Are site contaminants present at levels that are acutely toxic to fish or wildlife or that have caused documented fish or more wildlife mortality?..... [ ]

[ ] (1)

[If 1 or more boxes are checked, check this box]

° **Priority II** - Important Sites. Priority II will be assigned if any of the following questions can be answered affirmatively.

a) Has a Class A or AA surface water body or a principal aquifer been contaminated or threatened without affecting an existing water supply?..... [X]
b) Has bioaccumulation of site contaminants in flora or fauna resulted in actionable levels (but not a health advisory)?.... [ ]
c) Are contaminants at levels chronically toxic to fish/wildlife?..... [ ]
d) Have endangered, threatened or rare species, significant habitats, designated coastal zone or regulated wetlands been impacted by releases from the site?..... [ ]

[ ] (2)

[If 1 or more boxes are checked, check this box]

° **Priority III** - will be assigned unless one or more of the site prioritization criteria, specified above, apply to a site. After remedial needs for Priority I and II sites have been accommodated, remediation of sites under this category can be considered. If priority III, check box 3. [ ] (3)

Enter the number of the priority box checked 1, 2, or 3 here..... [2] (4)
This is the site's priority rank.

**FACTORS**

**IJC Factor** - If the site has been identified by the International Joint Commission (IJC) as a component in a remedial action plan, subtract (1) from the value in box 4 and enter the result in box 5..... [ ] (5)

| | Yes | No |
|---|---|---|
| **EDZ Factor** - If the site is within a New York State designated Economic Development Zone (EDZ) should this fact cause the site priority to be raised?.. | [ ] | [X] |
| **Community Support Factor** - If the site has been targeted for local government-supported development by a developer willing to sign a consent order with DEC finance investigation and remediation should this fact cause the site priority to be raised?..... | [ ] | [X] |

If either "yes" box is checked, subtract 1 from the value in box 4 and enter the result into box 6. If "no" is checked, the value in box 6 equals box 4 (or box 5 if applicable). If both IJC and EDZ/Community Support factors apply, only 1 (not 2) will be subtracted form the value in box 4. The resultant value in box 6 will never be less than 1..... [2] (6)

| | Yes | No |
|---|---|---|
| **IRM NOTE:** Should this site be considered a candidate for an Interim Remedial Measure (IRM) as defined by 6NYCRR Part 375-1.3n?..... | [ ] | [X] |

**If "yes", please explain why:** _____

Preparer Mark P. Mateunas, P.E. Mark P. Mateunas Date July 6, 1999

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

## Inactive Hazardous Waste Disposal Report

| | | | | | |
|---|---|---|---|---|---|
| **Site Name:** | **Bartlett Tree Company** | | | **Site Code:** | **130074** |
| Class Code: | **2** | Region: **1** | County: **Nassau** | EPA Id: | **NY0001408749** |
| Address: | **345 Union Avenue** | | City: **Westbury** | Zip: | **11590** |
| Latitude: | **40 45' 13"** | Longitude: | **73 35' 13"** | | |
| Site Type: | **Structure** | | Estimated Size: **0.4** Acres | | |

Site Owner / Operator Information:

| | | | |
|---|---|---|---|
| Current Owner(s) Name: | **F. A. Bartlett Tree Experts** | | |
| Current Owner(s) Address: | **P.O. Box 3067** | **Stamford** | **CT 06905** |
| Owner(s) during disposal: | **F.A. Bartlett Tree Expert Co.** | | |
| Operator(s) during disposal: | **Bartlett Tree Co.** | | |
| Stated Operator(s) Address: | **345 Union Ave.** | **Westbury** | **NY 11590** |

Hazardous Waste Disposal Period: From **1950's** To **1983**

**Site Description:**
The Bartlett Tree Company consists of the original parcel of property (Lot 206), active and used by the company since the mid 1950s, plus a small strip of land running the length of the original property (Lot 786) on the west side purchased in the mid 1990s. The main building, a two-story brick and masonry structure, located at the south end of the site is the office. Midway along the eastern side of the property are two adjoining buildings: a garage where large equipment is stored and to the north, a fireproof shed with concrete floor where the pesticides are stored. At the north end of the property is a one-sided open shed where large mechanical equipment is stored. In 1990, the Region 1 office received an anonymous phone call reporting that pesticides were dumped into a dry well at the site. Specific pesticides and herbicides were named, including Malathion, DDT, Sevin, chlordane and lead spray for fruits. It was reported that from the mid 1950s until 1983 between 200 and 300 gallons of spray were periodically dumped into the dry well. The dry well was then allegedly filled with empty 5-gallon metal pesticide containers, covered with a metal manhole cover and paved over with asphalt. Previously, in 1987, representatives from Bartlett Tree Expert Company visited this site to investigate a 1987 report of an abandoned "cistern" that held empty pesticide containers. They found that the cistern was partially filled with water which they sampled and two pesticide containers (empty, crushed 5-gallon metal pails of Sevin). The herbicide diazinon was detected in the sample of standing water taken at a concentration of 0.61 ppm. Based on these results, the company determined that "the residue levels detected did not represent a level that could be considered harmful to human health or the environment." After their inspection, they had the dry well backfilled with sand. A PSA was performed in 1996 which revealed that eight different pesticides were found beneath the dry well at levels that exceed the NYSDEC Class GA Groundwater Standards. Several chlorinated solvents (DCE, TCE, PCE) were found both upgradient and downgradient of the site suggesting an off-site source.

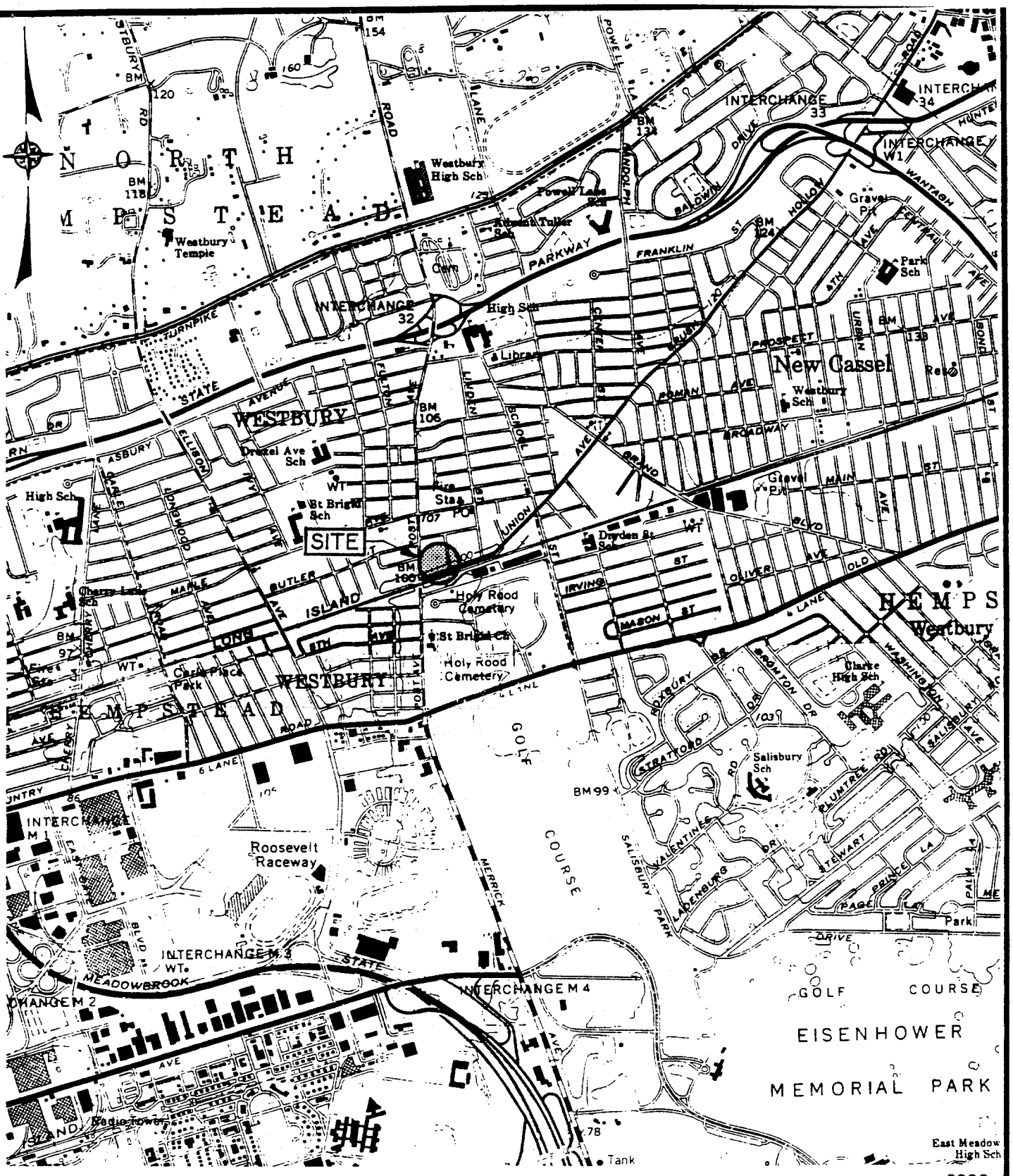
| **Confirmed Hazardous Waste Disposal:** | **Quantity:** |
|---|---|
| Deldrin | unknown |
| Endrin | unknown |
| Alpha-Chlordane | unknown |
| 4,4-DDD | unknown |
| 4,4-DDT | unknown |
| Gamma - BHC (Lindane) | unknown |

Analytical Data Available for: **Groundwater Soil Sediment**
Applicable Standards Exceeded in: **Groundwater**
*Geotechnical Information:*
Soil/Rock Type: **glacially deposited sand, gravel, little silt**
Depth to Groundwater: **37 ft.**

Legal Action: Type: Status:
Remedial Action: Nature of action:

**Assessment of Environmental Problems:**
Groundwater samples taken from the shallow aquifer at dry well DW-1, were found to be contaminated with pesticides that exceed NYSDEC Class GA groundwater standards. Soil samples taken from under DW-1 were found to be contaminated with the same pesticides as found in the groundwater. This site lies over a sole-source aquifer.

**Assessment of Health Problems:**




Source: USGS SEA CLIFF, N.Y.; HICKSVILLE, N.Y.; FREEPORT, N.Y.; AND LYNBROOK, N.Y. QUADRANGLES

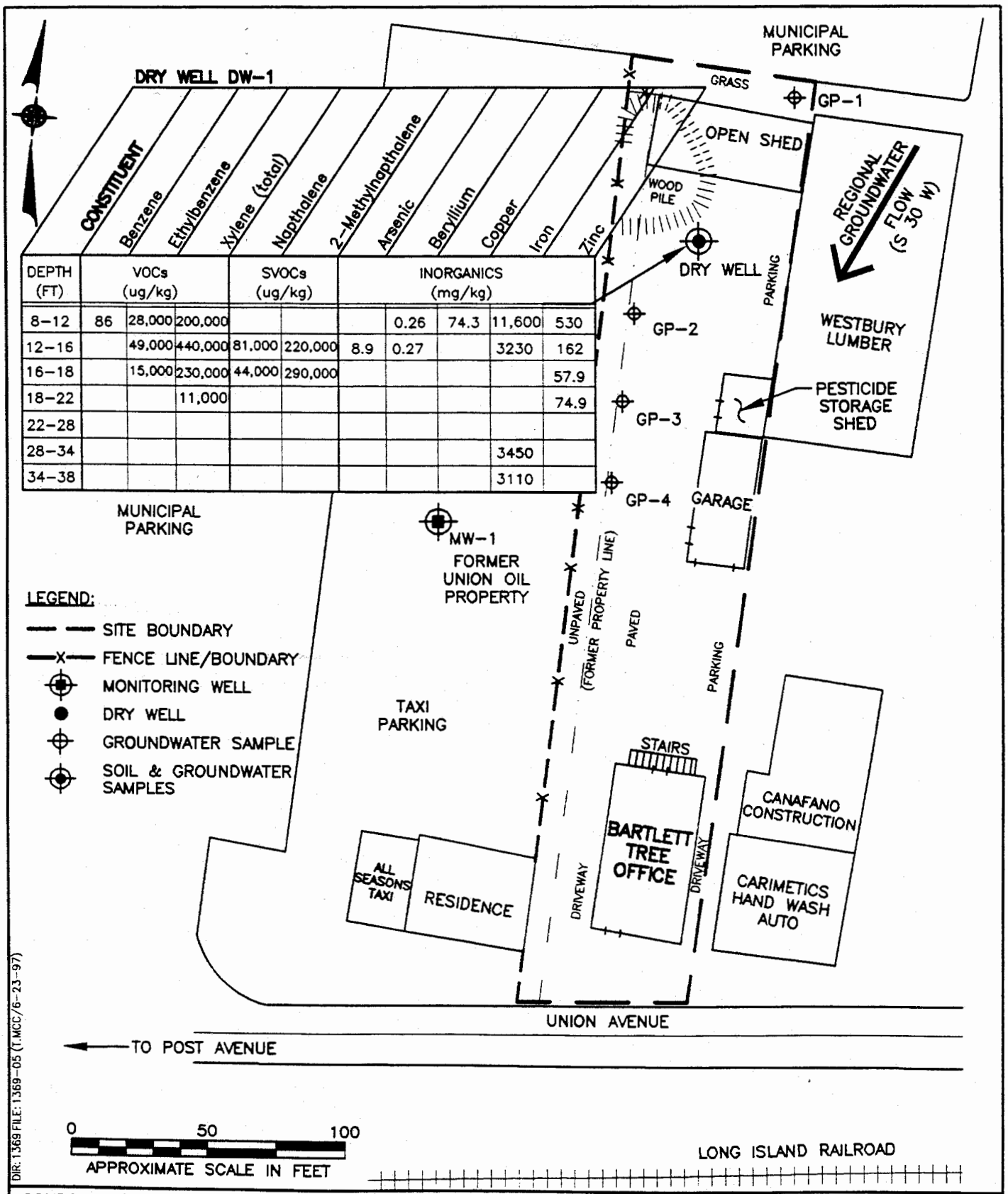
BARTLETT TREE CO.
345 UNION AVENUE
WESTBURY, NEW YORK

N 40° 45' 13"
W 73° 35' 13"

# SITE LOCATION MAP

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 1




DIR: 1369 FILE: 1369-05 (T.MCC/6-23-97)

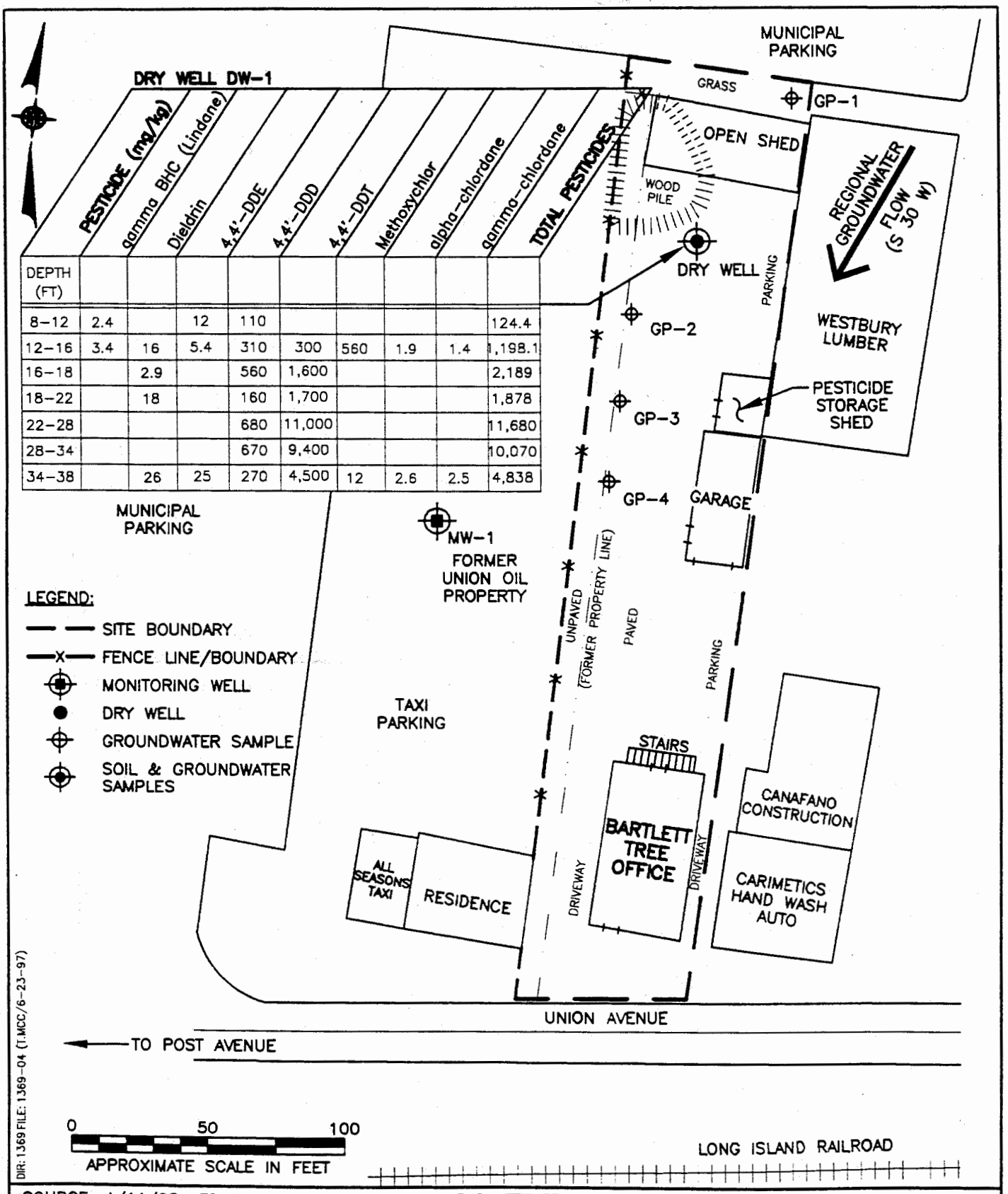
SOURCE: 4/11/95 AERIAL PHOTOGRAPH; FIELD OBSERVATIONS

BARTLETT TREE CO.
WESTBURY, NEW YORK

Dvirka and Bartilucci Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

**PRELIMINARY SITE ASSESSMENT**
**SOIL SAMPLING RESULTS – VOLATILE, SEMIVOLATILE AND INORGANIC CONSTITUENTS EXCEEDANCES OF SOIL CLEANUP OBJECTIVES**

FIGURE 4




| PESTICIDE (mg/kg) / DEPTH (FT) | gamma BHC (Lindane) | Dieldrin | 4,4'-DDE | 4,4'-DDD | 4,4'-DDT | Methoxychlor | alpha-chlordane | gamma-chlordane | TOTAL PESTICIDES |
|---|---|---|---|---|---|---|---|---|---|
| 8–12 | 2.4 | | 12 | 110 | | | | | 124.4 |
| 12–16 | 3.4 | 16 | 5.4 | 310 | 300 | 560 | 1.9 | 1.4 | 1,198.1 |
| 16–18 | | 2.9 | | 560 | 1,600 | | | | 2,189 |
| 18–22 | | 18 | | 160 | 1,700 | | | | 1,878 |
| 22–28 | | | | 680 | 11,000 | | | | 11,680 |
| 28–34 | | | | 670 | 9,400 | | | | 10,070 |
| 34–38 | | 26 | 25 | 270 | 4,500 | 12 | 2.6 | 2.5 | 4,838 |

DIR: 1369 FILE: 1369-04 (T.MCC/6-23-97)

SOURCE: 4/11/95 AERIAL PHOTOGRAPH; FIELD OBSERVATIONS

BARTLETT TREE CO.
WESTBURY, NEW YORK

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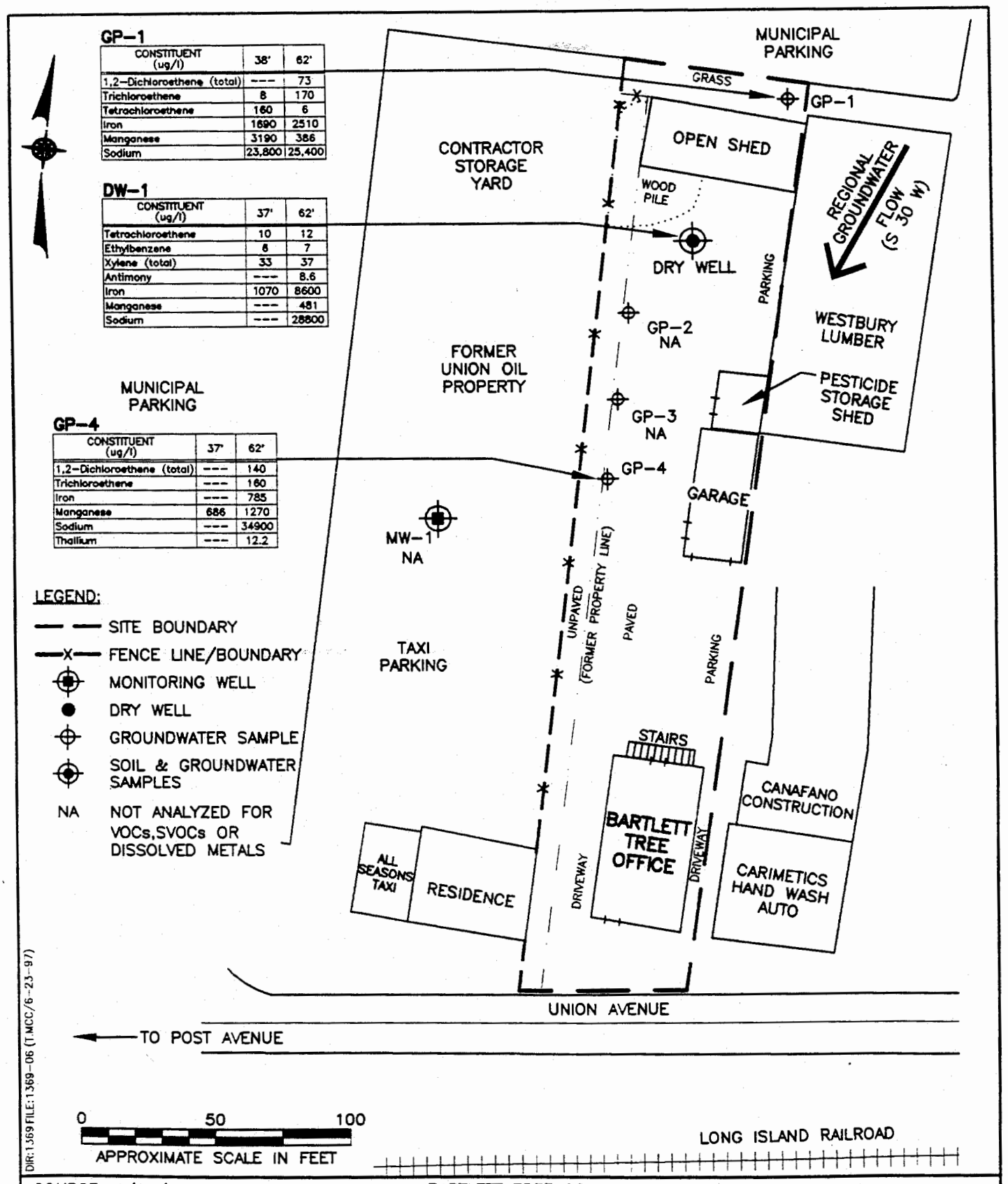
# PRELIMINARY SITE ASSESSMENT
# SOIL SAMPLING RESULTS – PESTICIDES
# EXCEEDANCES OF SOIL CLEANUP OBJECTIVES

FIGURE 3




SOURCE: 4/11/95 AERIAL PHOTOGRAPH; FIELD OBSERVATIONS

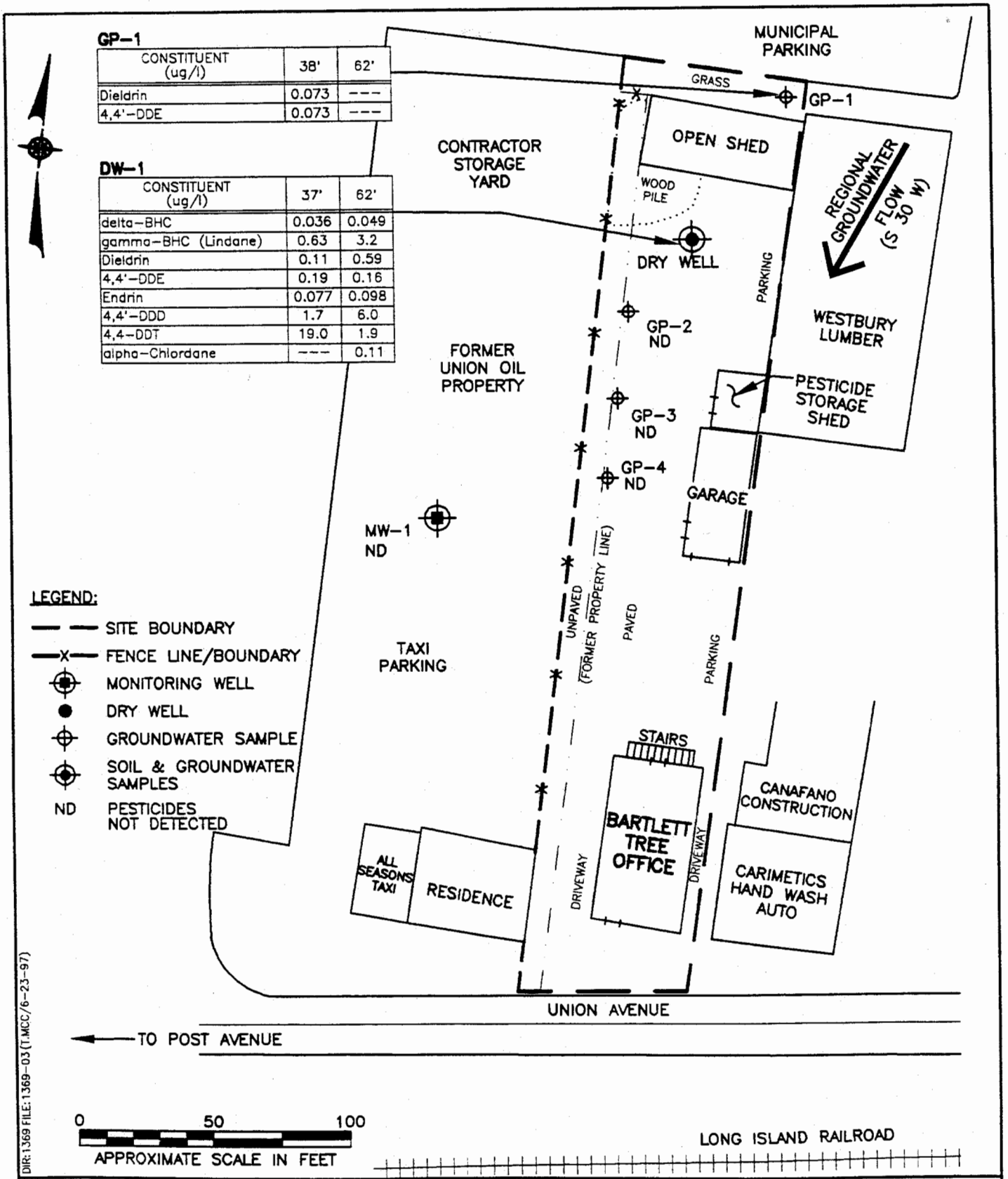
BARTLETT TREE CO.
WESTBURY, NEW YORK

## PRELIMINARY SITE ASSESSMENT

## GROUNDWATER SAMPLING RESULTS–VOLATILE, SEMIVOLATILE AND INORGANIC CONSTITUENTS EXCEEDANCES OF GROUNDWATER STANDARDS

Dvirka and Bartilucci Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 6




DIR:1369 FILE:1369-03(T.MCC/6-23-97)

SOURCE: 4/11/95 AERIAL PHOTOGRAPH; FIELD OBSERVATIONS

BARTLETT TREE CO.
WESTBURY, NEW YORK

# PRELIMINARY SITE ASSESSMENT
# GROUNDWATER SAMPLING RESULTS-PESTICIDES
# EXCEEDANCES OF GROUNDWATER STANDARDS

Dvirka and Bartilucci Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 5

**From:** Sue Bolesky
**To:** Desnoyers, Dale; Devine, Edward; Gomez, Karen; Parish, Walter; Vanhoesen, Jim
**Date:** 1/20/00 1:21PM
**Subject:** Proposed Class 2 Listing: Bartlett Tree Company

The Bartlett Tree Company Site, located at 345 Union Avenue, in Westbury, NY, Nassau County is proposed to be listed on the Registry of IHWDS as a Class 2 site. The Brownfields/Voluntary Cleanup Section must sign off on all listing packages indicating whether there are any voluntary cleanup agreements, Brownfields agreements, MGP agreements, or any VC or BF negotiations under way.

We have no information in our files on this site. Please notify me within 3 days if you are aware of any information which would warrant this site to not be listed on the Registry at this time. Tks Sue

A. Sylvester

**New York State Department of Environmental Conservation**
**Division of Environmental Remediation**
**Bureau of Hazardous Site Control, Room 252**
50 Wolf Road, Albany, New York 12233-7010
**Phone:** (518) 457-8807 • **FAX:** (518) 457-8989
**Website:** www.dec.state.ny.us

John P. Cahill
Commissioner

MAR 23 2000

**CERTIFIED MAIL**
**RETURN RECEIPT REQUESTED**

F.A. Bartlett Tree Experts
P.O. Box 3067
Stamford, CT 06905

Dear Sir/Madam:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), copy enclosed, the New York State Department of Environmental Conservation (Department) must maintain a registry of all inactive disposal sites suspected or known to contain hazardous wastes. The ECL also mandates that this Department notify, by certified mail, the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites.

Our records indicate that you represent the owner or part owner of the site listed below. Therefore, this letter constitutes notification of the inclusion of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

DEC Site No.: 130074
Site Name: Bartlett Tree Company
Site Address: 345 Union Avenue, Westbury, NY 11590
Site Classification: 2

Enclosed is a copy of the Department's Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry and Annual Report together with an explanation of the site classifications. The Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition. Such petition may be addressed to:

Mr. John P. Cahill
Commissioner
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-1010

For additional information, please contact me at (518) 457-0747.

Sincerely,

Robert L. Marino
Chief
Site Control Section
Bureau of Hazardous Site Control
Division of Environmental Remediation

Enclosures

bcc: w/o Enc.
E. Barcomb
R. Marino
J. Swartwout
A. Sylvester

w/Enc. (Copy of Site Report form only)
A. Grant
A. Carlson, NYSDOH
S. Ervolina
K. Murphy, R/1
W. Parish, R/1
J. Pavacic, R/1
B. Smith, NCHD

AS/srh

A. Sylvester

**New York State Department of Environmental Conservation**
**Division of Environmental Remediation**
**Bureau of Hazardous Site Control, Room 252**
50 Wolf Road, Albany, New York 12233-7010
**Phone:** (518) 457-8807 • **FAX:** (518) 457-8989
**Website:** www.dec.state.ny.us

John P. Cahill
Commissioner

APR - 7 2000

This letter was sent to the people on the attached list.

Dear :

The Department of Environmental Conservation (DEC) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at 345 Union Avenue in the Town of North Hempstead and County of Nassau and designated as Tax Map Numbers 10-228-206 and 10-228-786 was recently added as a Class 2 in the Registry. The name and site I.D. number of this property as listed in the Registry is Bartlett Tree Company, Site #130074.

The Classification Code 2 means that the site poses a significant threat to the public health or environment -- action required.

We are sending this letter to you and others who own property near the site listed above, as well as the county and town clerks and municipal water purveyors when applicable. We are notifying you about these activities at this site because we believe it is important to keep you informed.

**If you currently are renting or leasing your property to someone else, please share this information with them. If you no longer own the property to which this letter was sent, please provide this information to the new owner and provide this office with the name and address of the new owner so that we can correct our records.**

The reason for this recent classification decision is as follows:

- The disposal of hazardous waste as defined by 6NYCRR Part 371 at this site has been confirmed based on the results of the environmental sampling. Soil samples collected in dry well DW-1 found pesticides which may be the source of hazardous waste contamination found in the groundwater of monitoring well DW-1.

Although this is a sole source aquifer, all municipal water supplies routinely monitor the quality of the water they purvey to ensure only water which meets New York State Drinking Water Standards enters the municipal water supply.

If you have questions, need additional information, or have information which you believe would be useful to us, please call the Department of Environmental Conservation's toll-free number: **1(800)342-9296.** The Department of Health maintains a Health Liaison Program (HeLP) toll-free number: **1(800)458-1158 Ext. 6402.**

Sincerely,

Robert L. Marino
Chief
Site Control Section

bcc: R. Marino
J. Swartwout
M. Lowery, R/1
W. Parish, R/1
J. Pavacic, R/1
A. Carlson
L. Ennist
A. Sylvester
B. Smith, NCHD

AS/srh

ATTACHMENT C

# Soil Analytical Summary Table, Supplemental RI

# TABLE 4
## Subsurface Soil Analytical Results
## Remedial Investigation
## Bartlett Tree Company Site
## Westbury, New York

## Soil Results:

| *Analyte Group:* 1-BTEX/Volatiles | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | *Location:* | MW-4 | MW-5 | SB-10 | SB-10 | SB-10 | SB-10 | SB-10 | SB-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Analyte Name* | Protection of Public Health - Commercial Use | Protection of Groundwater | *Units* | *SampleName:* | MW-4-36-38 | MW-5-36-38 | SB-10-8-10 | SB-10-12-14 | SB-10-14-16 | SB-10-22-24 | SB-10-30-32 | SB-10-38-40 |
| Ethylbenzene | 390 | 1 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | *4.6 | **0.2** | **0.001 J** | **0.1** | 0.001 U |
| Toluene | 500 | 0.7 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.052 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Xylenes, total | 500 | 1.6 | MG/KG | | 0.001 U | 0.001 U | **0.001 J** | *32 | *18 | **0.01** | **0.68** | 0.001 U |

| *Analyte Group:* 1-Volatiles | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | *Location:* | MW-4 | MW-5 | SB-10 | SB-10 | SB-10 | SB-10 | SB-10 | SB-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Analyte Name* | Protection of Public Health - Commercial Use | Protection of Groundwater | *Units* | *SampleName:* | MW-4-36-38 | MW-5-36-38 | SB-10-8-10 | SB-10-12-14 | SB-10-14-16 | SB-10-22-24 | SB-10-30-32 | SB-10-38-40 |
| 2-Butanone (MEK) | 500 | 0.12 | MG/KG | | 0.005 U | 0.005 U | 0.005 U | 0.21 U | 0.005 U | 0.004 U | 0.004 U | 0.005 U |
| Acetone | 500 | 0.05 | MG/KG | | **0.009 J** | 0.008 U | 0.008 U | 0.37 U | 0.009 U | 0.007 U | **0.014 J** | **0.015 J** |
| Chlorobenzene | 500 | 1.1 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | **0.23 J** | **0.012** | 0.001 U | **0.006** | 0.001 U |
| Chloroform | 350 | 0.37 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.052 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| cis-1,2-Dichloroethene | 500 | 0.25 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.052 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Methylene chloride | 500 | 0.05 | MG/KG | | **0.002 J** | 0.002 U | **0.004 J** | 0.1 U | **0.005 J** | 0.002 U | 0.002 U | *0.096 |
| Tetrachloroethene (PCE) | 150 | 1.3 | MG/KG | | 0.001 U | 0.001 U | **0.002 J** | 0.052 U | **0.002 J** | **0.004 J** | **0.004 J** | 0.001 U |
| Trichloroethene (TCE) | 200 | 0.47 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.052 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |

| *Analyte Group:* 4-Pesticides/Herbicides | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | *Location:* | MW-4 | MW-5 | SB-10 | SB-10 | SB-10 | SB-10 | SB-10 | SB-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Analyte Name* | Protection of Public Health - Commercial Use | Protection of Groundwater | *Units* | *SampleName:* | MW-4-36-38 | MW-5-36-38 | SB-10-8-10 | SB-10-12-14 | SB-10-14-16 | SB-10-22-24 | SB-10-30-32 | SB-10-38-40 |
| 2-(2-Methyl-4-chlorophenoxy)propionic acid (MCPP) | NE | NE | MG/KG | | 0.84 U | 0.88 U | 9 U | 0.86 U | 19 U | 0.81 U | 0.8 U | 0.86 U |
| 2,4,5-TP (Silvex) | 500 | 3.8 | MG/KG | | 0.00084 U | 0.00088 U | 0.009 U | 0.00086 U | 0.019 U | 0.00081 U | 0.0008 U | 0.00086 U |
| 2,4-DB | NE | NE | MG/KG | | 0.007 U | 0.0073 U | 0.075 U | 0.0071 U | 0.16 U | 0.0067 U | 0.0066 U | 0.0071 U |
| 2-Methyl-4-chlorophenoxyacetic acid (MCPA) | NE | NE | MG/KG | | 0.86 U | 0.89 U | 9.1 U | 0.87 U | 20 U | 0.83 U | 0.81 U | 0.87 U |
| 4,4'-DDD | 92 | 14 | MG/KG | | **0.2** | 0.0086 UJ | **2.1** | *93 | *380 | *230 | *69 J | **0.37** |
| 4,4'-DDE | 62 | 17 | MG/KG | | **0.013 J** | 0.0025 UJ | **1.3** | **2.9** | 13 U | **11** | **7.3** | **0.021 J** |
| 4,4'-DDT | 47 | 136 | MG/KG | | **0.65 J** | 0.0079 UJ | **0.54 J** | **8.8 J** | *120 J | *720 J | *580 J | **1.4 J** |
| Aldrin | 0.68 | 0.19 | MG/KG | | 0.0019 U | 0.0002 U | 0.02 U | 0.058 U | 0.17 U | *1.2 | 0.18 U | 0.0097 U |

# TABLE 4
# Subsurface Soil Analytical Results
# Remedial Investigation
# Bartlett Tree Company Site
# Westbury, New York

| *Analyte Group:* | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | *Location:* | *MW-4* | *MW-5* | *SB-10* | *SB-10* | *SB-10* | *SB-10* | *SB-10* | *SB-10* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4-Pesticides/Herbicides** | Protection of Public Health - Commercial Use | Protection of Groundwater | | *SampleName:* | *MW-4-36-38* | *MW-5-36-38* | *SB-10-8-10* | *SB-10-12-14* | *SB-10-14-16* | *SB-10-22-24* | *SB-10-30-32* | *SB-10-38-40* |
| ***Analyte Name*** | | | ***Units*** | | | | | | | | | |
| alpha Endosulfan (Endosulfan I) | 200 | 102 | MG/KG | | 0.0025 U | 0.00026 U | 0.026 U | **0.18 J** | 0.21 U | 0.24 U | 0.23 U | 0.013 U |
| beta Endosulfan (Endosulfan II) | 200 | 102 | MG/KG | | **0.0045 J** | 0.00039 U | 0.04 U | 0.11 U | 0.32 U | 0.36 U | 0.35 U | 0.019 U |
| BHC, beta | 3 | 0.09 | MG/KG | | 0.011 U | 0.0011 U | 0.12 U | 0.33 U | 0.93 U | 1 U | 1 U | 0.055 U |
| BHC, gamma (Lindane) | 9.2 | 0.1 | MG/KG | | 0.0019 U | 0.0002 U | 0.02 U | ***1.8** | ***9.1 J** | ***0.21 J** | 0.18 U | 0.0097 U |
| Chlordane, alpha | 24 | 2.9 | MG/KG | | 0.0019 U | **0.00031 J** | 0.02 U | **0.4** | **1.4** | **0.85 J** | 0.18 U | 0.0097 U |
| Chlordane, gamma | NE | NE | MG/KG | | **0.0064 J** | **0.00038 J** | 0.02 U | 0.058 U | **2.4** | 0.18 U | 0.18 U | 0.0097 U |
| Chlorpyrifos | NE | NE | MG/KG | | 0.025 U | 0.026 U | 0.26 U | 0.25 U | 0.28 U | 0.24 U | 0.023 U | 0.025 U |
| Dalapon | NE | NE | MG/KG | | **0.035 J** | 0.035 U | 0.36 U | 0.034 U | 0.78 U | **0.074 J** | **0.045 J** | 0.034 U |
| Dichlorophenoxyacetic acid (2,4-D) | NE | NE | MG/KG | | 0.014 U | 0.014 U | 0.14 U | 0.014 U | 0.31 U | 0.013 U | 0.013 U | 0.014 U |
| Dieldrin | 1.4 | 0.1 | MG/KG | | **0.08** | **0.00045 J** | 0.04 U | 3.7 U | ***17 J** | 0.36 U | ***7.8** | **0.02 J** |
| Endrin aldehyde | NE | NE | MG/KG | | 0.0037 U | 0.00039 U | 0.04 U | 0.11 U | 0.32 U | 0.36 U | 0.35 U | 0.019 U |
| Ethion | NE | NE | MG/KG | | 0.025 U | 0.026 U | 0.26 U | 0.25 U | 0.28 U | 0.24 U | **0.023 UR** | 0.025 U |
| Methoxychlor | NE | NE | MG/KG | | **0.022 J** | 0.002 U | **0.48 J** | 0.58 U | **93 J** | **7.2 J** | **5.4 J** | 0.097 U |
| Trichlorophenoxyacetic acid (2,4,5-T) | NE | NE | MG/KG | | 0.00092 U | 0.00096 U | 0.0099 U | 0.00094 U | 0.021 U | 0.00089 U | 0.00087 U | 0.00094 U |

# TABLE 4
# Subsurface Soil Analytical Results
# Remedial Investigation
# Bartlett Tree Company Site
# Westbury, New York

## Soil Results:

| Analyte Group: 1-BTEX/Volatiles | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | Location: | SB-11 | SB-11 | SB-11 | SB-11 | SB-12 | SB-12 | SB-12 | SB-12 | SB-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte Name | Protection of Public Health - Commercial Use | Protection of Groundwater | Units | SampleName: | SB-11-6-8 | SB-11-16-18 | SB-11-26-28 | SB-11-36-38 | SB-12-6-8 | SB-12-16-18 | SB-12-26-28 | SB-12-36-38 | DUP030810 |
| Ethylbenzene | 390 | 1 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | **0.001 J** | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Toluene | 500 | 0.7 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Xylenes, total | 500 | 1.6 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | **0.006** | 0.001 U | 0.001 U | 0.001 U | 0.001 U |

| Analyte Group: 1-Volatiles | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | Location: | SB-11 | SB-11 | SB-11 | SB-11 | SB-12 | SB-12 | SB-12 | SB-12 | SB-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte Name | Protection of Public Health - Commercial Use | Protection of Groundwater | Units | SampleName: | SB-11-6-8 | SB-11-16-18 | SB-11-26-28 | SB-11-36-38 | SB-12-6-8 | SB-12-16-18 | SB-12-26-28 | SB-12-36-38 | DUP030810 |
| 2-Butanone (MEK) | 500 | 0.12 | MG/KG | | 0.004 U | 0.004 U | 0.004 U | 0.004 U | 0.004 U | 0.004 U | 0.004 U | 0.004 U | 0.004 U |
| Acetone | 500 | 0.05 | MG/KG | | 0.008 U | 0.007 U | **0.008 J** | 0.007 U | 0.007 U | 0.007 U | 0.007 U | 0.008 U | **0.009 J** |
| Chlorobenzene | 500 | 1.1 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chloroform | 350 | 0.37 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| cis-1,2-Dichloroethene | 500 | 0.25 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Methylene chloride | 500 | 0.05 | MG/KG | | 0.002 U | 0.002 U | 0.002 U | 0.002 U | **0.002 J** | 0.002 U | 0.002 U | 0.002 U | **0.003 J** |
| Tetrachloroethene (PCE) | 150 | 1.3 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | **0.006** | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Trichloroethene (TCE) | 200 | 0.47 | MG/KG | | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |

| Analyte Group: 4-Pesticides/Herbicides | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | Location: | SB-11 | SB-11 | SB-11 | SB-11 | SB-12 | SB-12 | SB-12 | SB-12 | SB-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte Name | Protection of Public Health - Commercial Use | Protection of Groundwater | Units | SampleName: | SB-11-6-8 | SB-11-16-18 | SB-11-26-28 | SB-11-36-38 | SB-12-6-8 | SB-12-16-18 | SB-12-26-28 | SB-12-36-38 | DUP030810 |
| 2-(2-Methyl-4-chlorophenoxy)propionic acid (MCPP) | NE | NE | MG/KG | | 0.78 U | 0.78 U | 0.77 U | 0.83 U | 0.78 U | 0.78 U | 0.77 U | 0.83 U | 0.85 U |
| 2,4,5-TP (Silvex) | 500 | 3.8 | MG/KG | | 0.00078 U | 0.00078 U | 0.00077 U | 0.00083 U | 0.00078 U | 0.00078 U | 0.00077 U | 0.00083 U | 0.00085 U |
| 2,4-DB | NE | NE | MG/KG | | 0.0065 U | 0.0064 U | 0.0064 U | 0.0069 U | 0.0064 U | 0.0064 U | 0.0064 U | 0.0069 U | 0.007 U |
| 2-Methyl-4-chlorophenoxyacetic acid (MCPA) | NE | NE | MG/KG | | 0.79 U | 0.79 U | 0.78 U | 0.84 U | 0.79 U | 0.79 U | 0.78 U | 0.84 U | 0.86 U |
| 4,4'-DDD | 92 | 14 | MG/KG | | 0.0015 UJ | 0.00034 U | 0.0015 UJ | 0.00037 U | 0.011 UJ | 0.012 UJ | 0.0028 UJ | 0.0019 UJ | 0.002 UJ |
| 4,4'-DDE | 62 | 17 | MG/KG | | 0.00034 U | 0.00034 U | 0.00034 U | 0.00037 U | **0.033** | 0.0023 UJ | 0.00064 UJ | **0.006** | **0.0047** |
| 4,4'-DDT | 47 | 136 | MG/KG | | 0.012 UJ | 0.0013 UJ | 0.0061 UJ | 0.0012 UJ | **0.19 J** | 0.039 UJ | 0.017 UJ | 0.03 UJ | 0.024 UJ |
| Aldrin | 0.68 | 0.19 | MG/KG | | 0.00018 U | 0.00018 U | 0.00018 U | 0.00019 U | 0.0018 U | 0.00018 U | 0.00018 U | 0.00019 U | 0.00019 U |

# TABLE 4
## Subsurface Soil Analytical Results
## Remedial Investigation
## Bartlett Tree Company Site
## Westbury, New York

| *Analyte Group:* | Soil Cleanup Objectives [6 NYCRR Subpart 375-6] | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4-Pesticides/Herbicides** | Protection of Public Health - Commercial Use | Protection of Groundwater | | *Location:* | *SB-11* | *SB-11* | *SB-11* | *SB-11* | *SB-12* | *SB-12* | *SB-12* | *SB-12* | *SB-12* |
| ***Analyte Name*** | | | ***Units*** | ***SampleName:*** | ***SB-11-6-8*** | ***SB-11-16-18*** | ***SB-11-26-28*** | ***SB-11-36-38*** | ***SB-12-6-8*** | ***SB-12-16-18*** | ***SB-12-26-28*** | ***SB-12-36-38*** | ***DUP030810*** |
| alpha Endosulfan (Endosulfan I) | 200 | 102 | MG/KG | | 0.00023 U | 0.00023 U | 0.00023 U | 0.00024 U | 0.0023 U | 0.00023 U | 0.00023 U | 0.00024 U | 0.00025 U |
| beta Endosulfan (Endosulfan II) | 200 | 102 | MG/KG | | 0.00034 U | 0.00034 U | 0.00034 U | 0.00037 U | 0.0034 U | 0.00034 U | 0.00034 U | 0.00037 U | 0.00037 U |
| BHC, beta | 3 | 0.09 | MG/KG | | 0.001 U | 0.00099 U | 0.00099 U | 0.0011 U | 0.01 U | 0.00099 U | 0.00099 U | 0.0011 U | 0.0011 U |
| BHC, gamma (Lindane) | 9.2 | 0.1 | MG/KG | | 0.00018 U | 0.00018 U | 0.00018 U | 0.00019 U | **0.011** | 0.00018 U | 0.00018 U | **0.00084 J** | **0.00087 J** |
| Chlordane, alpha | 24 | 2.9 | MG/KG | | 0.00018 U | 0.00018 U | 0.00018 U | 0.00019 U | **0.003 J** | 0.00018 U | 0.00018 U | **0.00036 J** | **0.00032 J** |
| Chlordane, gamma | NE | NE | MG/KG | | 0.00018 U | 0.00018 U | 0.00018 U | 0.00019 U | **0.003 J** | **0.00046 J** | 0.00018 U | **0.00039 J** | **0.00032 J** |
| Chlorpyrifos | NE | NE | MG/KG | | 0.023 U | 0.023 U | 0.023 U | 0.024 U | 0.23 U | 0.023 U | 0.023 U | 0.024 U | 0.025 U |
| Dalapon | NE | NE | MG/KG | | 0.031 U | 0.031 U | 0.031 U | 0.033 U | 0.031 U | 0.031 U | 0.031 U | 0.033 U | 0.034 U |
| Dichlorophenoxyacetic acid (2,4-D) | NE | NE | MG/KG | | 0.013 U | 0.012 U | 0.012 U | 0.013 U | 0.012 U | 0.012 U | 0.012 U | 0.013 U | 0.014 U |
| Dieldrin | 1.4 | 0.1 | MG/KG | | 0.00034 U | 0.00034 U | 0.00034 U | 0.00037 U | 0.0034 U | **0.00098 J** | 0.00034 U | 0.00037 U | 0.00037 U |
| Endrin aldehyde | NE | NE | MG/KG | | 0.00034 U | 0.00034 U | 0.00034 U | 0.00037 U | 0.0034 U | 0.00034 U | 0.00034 U | 0.00037 U | 0.00037 U |
| Ethion | NE | NE | MG/KG | | 0.023 U | 0.023 U | 0.023 U | 0.024 U | 0.23 U | 0.023 U | 0.023 U | 0.024 U | 0.025 U |
| Methoxychlor | NE | NE | MG/KG | | 0.0018 U | 0.0018 U | 0.0018 U | 0.0019 U | **0.041 J** | 0.0018 U | 0.0018 U | **0.0098** | **0.008 J** |
| Trichlorophenoxyacetic acid (2,4,5-T) | NE | NE | MG/KG | | 0.00086 U | 0.00085 U | 0.00085 U | 0.00091 U | 0.00085 U | 0.00085 U | 0.00085 U | 0.00091 U | 0.00093 U |

ATTACHMENT D

# Analytical Laboratory Report, Supplemental RI

Lancaster Laboratories

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# Analysis Report

ANALYTICAL RESULTS

Prepared for:

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

518-472-1988

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

April 09, 2010

Project: Bartlett Tree

Samples arrived at the laboratory on Wednesday, March 10, 2010. The PO# for this group is 6527. The group number for this submittal is 1185473.

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SB-12-6-8 Grab Soil | 5923774 |
| SB-12-16-18 Grab Soil | 5923775 |
| SB-12-26-28 Grab Soil | 5923776 |
| SB-12-36-38 Grab Soil | 5923777 |
| DUP030810 Grab Soil | 5923778 |
| SB-11-6-8 Grab Soil | 5923779 |
| SB-11-16-18 Grab Soil | 5923780 |
| SB-11-26-28 Grab Soil | 5923781 |
| SB-11-36-38 Grab Soil | 5923782 |
| MW-5-36-38 Grab Soil | 5923783 |
| MW-4-36-38 Grab Soil | 5923784 |
| SB-10-8-10 Grab Soil | 5923785 |
| SB-10-12-14 Grab Soil | 5923786 |
| SB-10-14-16 Grab Soil | 5923787 |
| SB-10-22-24 Grab Soil | 5923788 |
| SB-10-30-32 Grab Soil | 5923789 |
| SB-10-30-32MS Grab Soil | 5923790 |
| SB-10-30-32MSD Grab Soil | 5923791 |
| SB-10-38-40 Grab Soil | 5923792 |
| FB030910 Grab Water | 5923793 |
| TB030910 Water | 5923794 |

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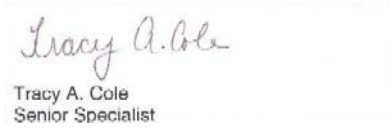
# Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | Brown & Caldwell | Attn: Frank Williams |
| 1 COPY TO | Data Package Group | |
| ELECTRONIC COPY TO | Brown & Caldwell | Attn: Carolyn Spinapolice |

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



Tracy A. Cole
Senior Specialist

Lancaster Laboratories

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# Analysis Report



**Sample Description: SB-12-6-8 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923774**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 09:17 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB121 SDG#: BTR08-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | | 7 | 1.01 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.5 | 1.01 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 1.01 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 1.01 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 1.01 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 4 | 1.01 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 1.01 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 1.01 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | | 1 | 1.01 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 1.01 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 1.01 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 1.01 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 1.01 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 1.01 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 1.01 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 1.01 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 1.01 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 1.01 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 1.01 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 1.01 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 1.01 |
| 10950 | Ethylbenzene | 100-41-4 | 1 | J | 1 | 1.01 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 1.01 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 1.01 |
| 10950 | Methylene Chloride | 75-09-2 | 2 | J | 2 | 1.01 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 1.01 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 1.01 |
| 10950 | Tetrachloroethene | 127-18-4 | 6 | | 1 | 1.01 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 1.01 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 1.01 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 1.01 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 1.01 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 1.01 |
| 10950 | Xylene (Total) | 1330-20-7 | 6 | | 1 | 1.01 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 12 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | | 31 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 6.4 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.2 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 8.3 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 8.3 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 790 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 780 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.85 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.78 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-12-6-8 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923774**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 09:17 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB121 SDG#: BTR08-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 230 | 10 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 230 | 10 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 230 | 10 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 230 | 10 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 230 | 10 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 230 | 10 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 230 | 10 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 230 | 10 |
| 06678 | EPN | 2104-64-5 | N.D. | | 230 | 10 |
| 06678 | Ethion | 563-12-2 | N.D. | | 230 | 10 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 230 | 10 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 230 | 10 |
| 06678 | Famphur | 52-85-7 | N.D. | | 230 | 10 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 520 | 10 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 230 | 10 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 260 | 10 |
| 06678 | Malathion | 121-75-5 | N.D. | | 230 | 10 |
| 06678 | Merphos | 150-50-5 | N.D. | | 230 | 10 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 230 | 10 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 230 | 10 |
| 06678 | Naled | 300-76-5 | N.D. | | 450 | 10 |
| 06678 | Phorate | 298-02-2 | N.D. | | 230 | 10 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 230 | 10 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 230 | 10 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 230 | 10 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 230 | 10 |
| 06678 | Trithion | 786-19-6 | N.D. | | 230 | 10 |

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 1.8 | 10 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 1.8 | 10 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 10 | 10 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 11 | | 1.8 | 10 |
| 10738 | Alpha Chlordane | 5103-71-9 | 3.0 | J | 1.8 | 10 |
| 10738 | Gamma Chlordane | 5103-74-2 | 3.0 | J | 1.8 | 10 |
| 10738 | p,p-DDD | 72-54-8 | 11 | J | 3.4 | 10 |
| 10738 | p,p-DDE | 72-55-9 | 33 | | 3.4 | 10 |
| 10738 | p,p-DDT | 50-29-3 | 190 | | 17 | 50 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 4.7 | 10 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 3.4 | 10 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 2.3 | 10 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 3.4 | 10 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 3.4 | 10 |
| 10738 | Endrin | 72-20-8 | N.D. | | 3.4 | 10 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 3.4 | 10 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 6.2 | 10 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 1.8 | 10 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 1.8 | 10 |

**Sample Description: SB-12-6-8 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923774**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 09:17 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB121 SDG#: BTR08-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Methoxychlor | 72-43-5 | 41 | J | 18 | 10 |
| 10738 | Toxaphene | 8001-35-2 | N.D. | | 110 | 10 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | | **%** | |
| 00111 | Moisture | n.a. | 3.8 | | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 05:04 | Kathrine K Muramatsu | 1.01 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:13 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:11 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:12 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 17:44 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 21:17 | Michele D Hamilton | 10 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 21:48 | Jamie L Brillhart | 10 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 22:04 | Jamie L Brillhart | 50 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |

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# Analysis Report



**Sample Description: SB-12-6-8 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923774**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 09:17 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB121 SDG#: BTR08-01

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-12-16-18 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923775**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 09:40 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB122 SDG#: BTR08-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | 7 | 0.98 |
| 10950 | Benzene | 71-43-2 | N.D. | 0.5 | 0.98 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 0.98 |
| 10950 | Bromoform | 75-25-2 | N.D. | 1 | 0.98 |
| 10950 | Bromomethane | 74-83-9 | N.D. | 2 | 0.98 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | 4 | 0.98 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 0.98 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 0.98 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | 1 | 0.98 |
| 10950 | Chloroethane | 75-00-3 | N.D. | 2 | 0.98 |
| 10950 | Chloroform | 67-66-3 | N.D. | 1 | 0.98 |
| 10950 | Chloromethane | 74-87-3 | N.D. | 2 | 0.98 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 0.98 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 0.98 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 0.98 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | 1 | 0.98 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 1 | 0.98 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 1 | 0.98 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 0.98 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 0.98 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 0.98 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | 1 | 0.98 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | 3 | 0.98 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3 | 0.98 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | 2 | 0.98 |
| 10950 | Styrene | 100-42-5 | N.D. | 1 | 0.98 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 0.98 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | 1 | 0.98 |
| 10950 | Toluene | 108-88-3 | N.D. | 1 | 0.98 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 1 | 0.98 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 1 | 0.98 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | 1 | 0.98 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 0.98 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 0.98 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | 12 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | 31 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | 6.4 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | 4.1 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | 8.3 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 8.3 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | 790 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | 780 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | 0.85 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | 0.78 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-12-16-18 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923775**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 09:40 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB122 SDG#: BTR08-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 52 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 26 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 23 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 45 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 23 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.18 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.18 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 0.99 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 0.18 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 0.18 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | 0.46 | J | 0.18 | 1 |
| 10738 | p,p-DDD | 72-54-8 | 12 | | 0.34 | 1 |
| 10738 | p,p-DDE | 72-55-9 | 2.3 | | 0.34 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 39 | | 3.4 | 10 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.47 | 1 |
| 10738 | Dieldrin | 60-57-1 | 0.98 | J | 0.34 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.23 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.62 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.18 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.18 | 1 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 1.8 | 1 |

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# Analysis Report



**Sample Description: SB-12-16-18 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923775**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 09:40 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB122 SDG#: BTR08-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 11 | 1 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 3.4 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 05:27 | Kathrine K Muramatsu | 0.98 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:15 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:13 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:14 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 18:11 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 15:04 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 22:19 | Jamie L Brillhart | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 22:42 | Jamie L Brillhart | 10 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-12-26-28 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923776**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 10:07 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB123 SDG#: BTR08-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | 7 | 0.93 |
| 10950 | Benzene | 71-43-2 | N.D. | 0.5 | 0.93 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 0.93 |
| 10950 | Bromoform | 75-25-2 | N.D. | 1 | 0.93 |
| 10950 | Bromomethane | 74-83-9 | N.D. | 2 | 0.93 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | 4 | 0.93 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 0.93 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 0.93 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | 1 | 0.93 |
| 10950 | Chloroethane | 75-00-3 | N.D. | 2 | 0.93 |
| 10950 | Chloroform | 67-66-3 | N.D. | 1 | 0.93 |
| 10950 | Chloromethane | 74-87-3 | N.D. | 2 | 0.93 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 0.93 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 0.93 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 0.93 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | 1 | 0.93 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 1 | 0.93 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 1 | 0.93 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 0.93 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 0.93 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 0.93 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | 1 | 0.93 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | 3 | 0.93 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3 | 0.93 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | 2 | 0.93 |
| 10950 | Styrene | 100-42-5 | N.D. | 1 | 0.93 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 0.93 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | 1 | 0.93 |
| 10950 | Toluene | 108-88-3 | N.D. | 1 | 0.93 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 1 | 0.93 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 1 | 0.93 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | 1 | 0.93 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 0.93 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 0.93 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | 12 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | 31 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | 6.4 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | 4.1 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | 8.2 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 8.2 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | 780 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | 770 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | 0.85 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | 0.77 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-12-26-28 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923776**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 10:07 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB123 SDG#: BTR08-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 52 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 26 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 23 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 44 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 23 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.18 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.18 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 0.99 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 0.18 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 0.18 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 0.18 | 1 |
| 10738 | p,p-DDD | 72-54-8 | 2.8 | | 0.34 | 1 |
| 10738 | p,p-DDE | 72-55-9 | 0.64 | J | 0.34 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 17 | | 1.7 | 5 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.46 | 1 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.23 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.62 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.18 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.18 | 1 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 1.8 | 1 |

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# Analysis Report



**Sample Description: SB-12-26-28 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923776**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 10:07 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB123 SDG#: BTR08-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 11 | 1 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 3.0 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 05:49 | Kathrine K Muramatsu | 0.93 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:18 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:16 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:17 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 18:39 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 15:41 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 22:34 | Jamie L Brillhart | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 23:13 | Jamie L Brillhart | 5 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-12-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923777**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 10:43 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB124 SDG#: BTR08-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | 8 | 0.98 |
| 10950 | Benzene | 71-43-2 | N.D. | 0.5 | 0.98 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 0.98 |
| 10950 | Bromoform | 75-25-2 | N.D. | 1 | 0.98 |
| 10950 | Bromomethane | 74-83-9 | N.D. | 2 | 0.98 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | 4 | 0.98 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 0.98 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 0.98 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | 1 | 0.98 |
| 10950 | Chloroethane | 75-00-3 | N.D. | 2 | 0.98 |
| 10950 | Chloroform | 67-66-3 | N.D. | 1 | 0.98 |
| 10950 | Chloromethane | 74-87-3 | N.D. | 2 | 0.98 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 0.98 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 0.98 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 0.98 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | 1 | 0.98 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 1 | 0.98 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 1 | 0.98 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 0.98 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 0.98 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 0.98 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | 1 | 0.98 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | 3 | 0.98 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3 | 0.98 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | 2 | 0.98 |
| 10950 | Styrene | 100-42-5 | N.D. | 1 | 0.98 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 0.98 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | 1 | 0.98 |
| 10950 | Toluene | 108-88-3 | N.D. | 1 | 0.98 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 1 | 0.98 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 1 | 0.98 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | 1 | 0.98 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 0.98 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 0.98 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | 13 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | 33 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | 6.9 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | 4.4 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | 8.8 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 8.8 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | 840 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | 830 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | 0.91 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | 0.83 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-12-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923777**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 10:43 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB124 SDG#: BTR08-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 24 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 24 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 24 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 24 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 24 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 24 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 24 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 24 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 24 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 24 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 24 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 24 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 24 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 55 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 24 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 28 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 24 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 24 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 24 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 24 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 48 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 24 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 24 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 24 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 24 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 24 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 24 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.19 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.19 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1.1 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 0.84 | J | 0.19 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | 0.36 | J | 0.19 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | 0.39 | J | 0.19 | 1 |
| 10738 | p,p-DDD | 72-54-8 | 1.9 | | 0.37 | 1 |
| 10738 | p,p-DDE | 72-55-9 | 6.0 | | 0.37 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 30 | | 1.8 | 5 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.50 | 1 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 0.37 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.24 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.37 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.37 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.37 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.37 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.66 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.19 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.19 | 1 |
| 10738 | Methoxychlor | 72-43-5 | 9.8 | | 1.9 | 1 |

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# Analysis Report



**Sample Description: SB-12-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923777**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 10:43 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB124 SDG#: BTR08-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 12 | 1 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 9.6 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 06:12 | Kathrine K Muramatsu | 0.98 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:20 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:18 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:19 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 19:06 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 23:33 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 22:49 | Jamie L Brillhart | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 23:04 | Jamie L Brillhart | 5 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: DUP030810 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923778**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB12D SDG#: BTR08-05FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | 9 | J | 8 | 0.99 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.6 | 0.99 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 0.99 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 0.99 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 0.99 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 4 | 0.99 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 0.99 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 0.99 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | | 1 | 0.99 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 0.99 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 0.99 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 0.99 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 0.99 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 0.99 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 0.99 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 0.99 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 0.99 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 0.99 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 0.99 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 0.99 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 0.99 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | | 1 | 0.99 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 0.99 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 0.99 |
| 10950 | Methylene Chloride | 75-09-2 | 3 | J | 2 | 0.99 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 0.99 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 0.99 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | | 1 | 0.99 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 0.99 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 0.99 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 0.99 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 0.99 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 0.99 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | | 1 | 0.99 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 14 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | | 34 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 7.0 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.5 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 9.0 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 9.0 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 860 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 850 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.93 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.85 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: DUP030810 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923778**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB12D SDG#: BTR08-05FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 25 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 25 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 25 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 25 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 25 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 25 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 25 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 25 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 25 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 25 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 25 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 25 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 25 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 57 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 25 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 28 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 25 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 25 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 25 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 25 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 49 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 25 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 25 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 25 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 25 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 25 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 25 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.19 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.19 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1.1 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 0.87 | J | 0.19 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | 0.32 | J | 0.19 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | 0.32 | J | 0.19 | 1 |
| 10738 | p,p-DDD | 72-54-8 | 2.0 | | 0.37 | 1 |
| 10738 | p,p-DDE | 72-55-9 | 4.7 | | 0.37 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 24 | | 1.9 | 5 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.51 | 1 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 0.37 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.25 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.37 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.37 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.37 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.37 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.68 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.19 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.19 | 1 |
| 10738 | Methoxychlor | 72-43-5 | 8.0 | J | 1.9 | 1 |

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# Analysis Report



**Sample Description: DUP030810 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923778**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB12D SDG#: BTR08-05FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 12 | 1 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 11.6 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 06:34 | Kathrine K Muramatsu | 0.99 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:22 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:21 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:21 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 20:29 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 00:09 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 23:19 | Jamie L Brillhart | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 23:33 | Jamie L Brillhart | 5 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-11-6-8 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923779**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 13:23 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB111 SDG#: BTR08-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | 8 | 1.04 |
| 10950 | Benzene | 71-43-2 | N.D. | 0.5 | 1.04 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 1.04 |
| 10950 | Bromoform | 75-25-2 | N.D. | 1 | 1.04 |
| 10950 | Bromomethane | 74-83-9 | N.D. | 2 | 1.04 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | 4 | 1.04 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 1.04 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 1.04 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | 1 | 1.04 |
| 10950 | Chloroethane | 75-00-3 | N.D. | 2 | 1.04 |
| 10950 | Chloroform | 67-66-3 | N.D. | 1 | 1.04 |
| 10950 | Chloromethane | 74-87-3 | N.D. | 2 | 1.04 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 1.04 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 1.04 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 1.04 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | 1 | 1.04 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 1 | 1.04 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 1 | 1.04 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 1.04 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 1.04 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 1.04 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | 1 | 1.04 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | 3 | 1.04 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3 | 1.04 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | 2 | 1.04 |
| 10950 | Styrene | 100-42-5 | N.D. | 1 | 1.04 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 1.04 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | 1 | 1.04 |
| 10950 | Toluene | 108-88-3 | N.D. | 1 | 1.04 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 1 | 1.04 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 1 | 1.04 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | 1 | 1.04 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 1.04 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1.04 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | 13 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | 31 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | 6.5 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | 4.2 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | 8.4 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 8.4 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | 790 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | 780 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | 0.86 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | 0.78 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-11-6-8 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923779**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 13:23 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB111 SDG#: BTR08-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 52 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 26 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 23 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 45 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 23 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.18 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.18 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1.0 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 0.18 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 0.18 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 0.18 | 1 |
| 10738 | p,p-DDD | 72-54-8 | 1.5 | J | 0.34 | 1 |
| 10738 | p,p-DDE | 72-55-9 | N.D. | | 0.34 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 12 | | 0.34 | 1 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.47 | 1 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.23 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.63 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.18 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.18 | 1 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 1.8 | 1 |

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# Analysis Report



**Sample Description: SB-11-6-8 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923779**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 13:23 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB111 SDG#: BTR08-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 11 | 1 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | |
|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 4.2 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 06:57 | Kathrine K Muramatsu | 1.04 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:25 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:23 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:24 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 20:57 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 20:31 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/24/2010 23:48 | Jamie L Brillhart | 1 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-11-16-18 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923780**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 13:46 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB112 SDG#: BTR08-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | 7 | 1.01 |
| 10950 | Benzene | 71-43-2 | N.D. | 0.5 | 1.01 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 1.01 |
| 10950 | Bromoform | 75-25-2 | N.D. | 1 | 1.01 |
| 10950 | Bromomethane | 74-83-9 | N.D. | 2 | 1.01 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | 4 | 1.01 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 1.01 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 1.01 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | 1 | 1.01 |
| 10950 | Chloroethane | 75-00-3 | N.D. | 2 | 1.01 |
| 10950 | Chloroform | 67-66-3 | N.D. | 1 | 1.01 |
| 10950 | Chloromethane | 74-87-3 | N.D. | 2 | 1.01 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 1.01 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 1.01 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 1.01 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | 1 | 1.01 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 1 | 1.01 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 1 | 1.01 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 1.01 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 1.01 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 1.01 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | 1 | 1.01 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | 3 | 1.01 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3 | 1.01 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | 2 | 1.01 |
| 10950 | Styrene | 100-42-5 | N.D. | 1 | 1.01 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 1.01 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | 1 | 1.01 |
| 10950 | Toluene | 108-88-3 | N.D. | 1 | 1.01 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 1 | 1.01 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 1 | 1.01 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | 1 | 1.01 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 1.01 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1.01 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | 12 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | 31 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | 6.4 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | 4.1 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | 8.3 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 8.3 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | 790 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | 780 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | 0.85 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | 0.78 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-11-16-18 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923780**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 13:46 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB112 SDG#: BTR08-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 52 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 26 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 23 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 44 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 23 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.18 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.18 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 0.99 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 0.18 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 0.18 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 0.18 | 1 |
| 10738 | p,p-DDD | 72-54-8 | N.D. | | 0.34 | 1 |
| 10738 | p,p-DDE | 72-55-9 | N.D. | | 0.34 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 1.3 | J | 0.34 | 1 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.47 | 1 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.23 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.62 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.18 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.18 | 1 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 1.8 | 1 |

Lancaster Laboratories

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# Analysis Report



**Sample Description: SB-11-16-18 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923780**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 13:46 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB112 SDG#: BTR08-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 11 | 1 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 3.3 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 07:20 | Kathrine K Muramatsu | 1.01 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:27 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:26 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:27 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 21:24 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 16:17 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 00:02 | Jamie L Brillhart | 1 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-11-26-28 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923781**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 14:12 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB113 SDG#: BTR08-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | 8 | J | 8 | 1.05 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.5 | 1.05 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 1.05 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 1.05 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 1.05 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 4 | 1.05 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 1.05 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 1.05 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | | 1 | 1.05 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 1.05 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 1.05 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 1.05 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 1.05 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 1.05 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 1.05 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 1.05 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 1.05 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 1.05 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 1.05 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 1.05 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 1.05 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | | 1 | 1.05 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 1.05 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 1.05 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | | 2 | 1.05 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 1.05 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 1.05 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | | 1 | 1.05 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 1.05 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 1.05 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 1.05 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 1.05 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 1.05 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | | 1 | 1.05 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 12 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | | 31 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 6.4 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.1 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 8.3 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 8.3 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 780 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 770 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.85 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.77 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-11-26-28 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923781**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 14:12 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB113 SDG#: BTR08-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 52 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 26 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 23 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 44 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 23 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.18 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.18 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 0.99 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 0.18 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 0.18 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 0.18 | 1 |
| 10738 | p,p-DDD | 72-54-8 | 1.5 | J | 0.34 | 1 |
| 10738 | p,p-DDE | 72-55-9 | N.D. | | 0.34 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 6.1 | | 0.34 | 1 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.46 | 1 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.23 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.34 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.34 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.62 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.18 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.18 | 1 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 1.8 | 1 |

**Sample Description: SB-11-26-28 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923781**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 14:12 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB113 SDG#: BTR08-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 11 | 1 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | |
|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 3.1 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 09:57 | Kathrine K Muramatsu | 1.05 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:30 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:29 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:29 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 3 | 201007520587 | 03/16/2010 11:35 | Larry E Bevins | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 21:52 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 17:30 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 00:32 | Jamie L Brillhart | 1 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |

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# Analysis Report



**Sample Description: SB-11-26-28 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923781**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 14:12 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB113 SDG#: BTR08-08

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-11-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923782**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 14:34 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB114 SDG#: BTR08-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | 7 | 0.92 |
| 10950 | Benzene | 71-43-2 | N.D. | 0.5 | 0.92 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 0.92 |
| 10950 | Bromoform | 75-25-2 | N.D. | 1 | 0.92 |
| 10950 | Bromomethane | 74-83-9 | N.D. | 2 | 0.92 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | 4 | 0.92 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 0.92 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 0.92 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | 1 | 0.92 |
| 10950 | Chloroethane | 75-00-3 | N.D. | 2 | 0.92 |
| 10950 | Chloroform | 67-66-3 | N.D. | 1 | 0.92 |
| 10950 | Chloromethane | 74-87-3 | N.D. | 2 | 0.92 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 0.92 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 0.92 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 0.92 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | 1 | 0.92 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 1 | 0.92 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 1 | 0.92 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 0.92 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 0.92 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 0.92 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | 1 | 0.92 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | 3 | 0.92 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3 | 0.92 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | 2 | 0.92 |
| 10950 | Styrene | 100-42-5 | N.D. | 1 | 0.92 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 0.92 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | 1 | 0.92 |
| 10950 | Toluene | 108-88-3 | N.D. | 1 | 0.92 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 1 | 0.92 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 1 | 0.92 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | 1 | 0.92 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 0.92 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 0.92 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | 13 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | 33 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | 6.9 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | 4.4 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | 8.9 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 8.9 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | 840 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | 830 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | 0.91 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | 0.83 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-11-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923782**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 14:34 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB114 SDG#: BTR08-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 24 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 24 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 24 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 24 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 24 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 24 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 24 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 24 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 24 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 24 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 24 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 24 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 24 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 55 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 24 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 28 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 24 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 24 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 24 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 24 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 48 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 24 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 24 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 24 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 24 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 24 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 24 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.19 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.19 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1.1 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 0.19 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 0.19 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 0.19 | 1 |
| 10738 | p,p-DDD | 72-54-8 | N.D. | | 0.37 | 1 |
| 10738 | p,p-DDE | 72-55-9 | N.D. | | 0.37 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 1.2 | J | 0.37 | 1 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.50 | 1 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 0.37 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.24 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.37 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.37 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.37 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.37 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.67 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.19 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.19 | 1 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 1.9 | 1 |

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# Analysis Report



**Sample Description: SB-11-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923782**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/08/2010 14:34 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

SB114 SDG#: BTR08-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 12 | 1 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 9.8 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 10:20 | Kathrine K Muramatsu | 0.92 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:31 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:31 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:32 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 22:19 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 18:06 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 00:46 | Jamie L Brillhart | 1 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: MW-5-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923783**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 08:38 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

MW-5- SDG#: BTR08-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | 8 | 1.02 |
| 10950 | Benzene | 71-43-2 | N.D. | 0.6 | 1.02 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 1.02 |
| 10950 | Bromoform | 75-25-2 | N.D. | 1 | 1.02 |
| 10950 | Bromomethane | 74-83-9 | N.D. | 2 | 1.02 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | 5 | 1.02 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 1.02 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 1.02 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | 1 | 1.02 |
| 10950 | Chloroethane | 75-00-3 | N.D. | 2 | 1.02 |
| 10950 | Chloroform | 67-66-3 | N.D. | 1 | 1.02 |
| 10950 | Chloromethane | 74-87-3 | N.D. | 2 | 1.02 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 1.02 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 1.02 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 1.02 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | 1 | 1.02 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 1 | 1.02 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 1 | 1.02 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 1.02 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 1.02 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 1.02 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | 1 | 1.02 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | 4 | 1.02 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 4 | 1.02 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | 2 | 1.02 |
| 10950 | Styrene | 100-42-5 | N.D. | 1 | 1.02 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 1.02 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | 1 | 1.02 |
| 10950 | Toluene | 108-88-3 | N.D. | 1 | 1.02 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 1 | 1.02 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 1 | 1.02 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | 1 | 1.02 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 1.02 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1.02 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | 14 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | 35 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | 7.3 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | 4.7 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | 9.4 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 9.4 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | 890 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | 880 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | 0.96 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | 0.88 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: MW-5-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923783**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 08:38 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

MW-5- SDG#: BTR08-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 26 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 26 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 26 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 26 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 26 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 26 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 26 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 26 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 26 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 26 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 26 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 26 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 26 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 59 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 26 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 29 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 26 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 26 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 26 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 26 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 50 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 26 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 26 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 26 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 26 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 26 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 26 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 0.20 | 1 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 0.20 | 1 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1.1 | 1 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 0.20 | 1 |
| 10738 | Alpha Chlordane | 5103-71-9 | 0.31 | J | 0.20 | 1 |
| 10738 | Gamma Chlordane | 5103-74-2 | 0.38 | J | 0.20 | 1 |
| 10738 | p,p-DDD | 72-54-8 | 8.6 | | 0.39 | 1 |
| 10738 | p,p-DDE | 72-55-9 | 2.5 | | 0.39 | 1 |
| 10738 | p,p-DDT | 50-29-3 | 7.9 | | 0.39 | 1 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 0.53 | 1 |
| 10738 | Dieldrin | 60-57-1 | 0.45 | J | 0.39 | 1 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 0.26 | 1 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 0.39 | 1 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 0.39 | 1 |
| 10738 | Endrin | 72-20-8 | N.D. | | 0.39 | 1 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 0.39 | 1 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 0.70 | 1 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 0.20 | 1 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 0.20 | 1 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 2.0 | 1 |

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# Analysis Report



**Sample Description: MW-5-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923783**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 08:38 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

MW-5- SDG#: BTR08-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 13 | 1 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | |
|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 14.6 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 08:27 | Kathrine K Muramatsu | 1.02 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:35 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:33 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:34 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 22:47 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 18:42 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 01:01 | Jamie L Brillhart | 1 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: MW-4-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923784**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 12:36 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

MW-4- SDG#: BTR08-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | 9 | J | 8 | 1.02 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.6 | 1.02 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 1.02 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 1.02 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 1.02 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 5 | 1.02 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 1.02 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 1.02 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | | 1 | 1.02 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 1.02 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 1.02 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 1.02 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 1.02 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 1.02 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 1.02 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 1.02 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 1.02 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 1.02 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 1.02 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 1.02 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 1.02 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | | 1 | 1.02 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 1.02 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 1.02 |
| 10950 | Methylene Chloride | 75-09-2 | 2 | J | 2 | 1.02 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 1.02 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 1.02 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | | 1 | 1.02 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 1.02 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 1.02 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 1.02 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 1.02 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 1.02 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | | 1 | 1.02 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 14 | 1 |
| 01865 | Dalapon | 75-99-0 | 35 | J | 34 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 7.0 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.5 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 9.0 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 9.0 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 860 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 840 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.92 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.84 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: MW-4-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923784**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 12:36 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

MW-4- SDG#: BTR08-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 25 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 25 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 25 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 25 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 25 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 25 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 25 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 25 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 25 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 25 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 25 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 25 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 25 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 56 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 25 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 28 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 25 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 25 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 25 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 25 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 48 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 25 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 25 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 25 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 25 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 25 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 25 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 1.9 | 10 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 1.9 | 10 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 11 | 10 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 1.9 | 10 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 1.9 | 10 |
| 10738 | Gamma Chlordane | 5103-74-2 | 6.4 | J | 1.9 | 10 |
| 10738 | p,p-DDD | 72-54-8 | 200 | | 37 | 100 |
| 10738 | p,p-DDE | 72-55-9 | 13 | J | 3.7 | 10 |
| 10738 | p,p-DDT | 50-29-3 | 650 | | 37 | 100 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 5.1 | 10 |
| 10738 | Dieldrin | 60-57-1 | 80 | | 3.7 | 10 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 2.5 | 10 |
| 10738 | Endosulfan II | 33213-65-9 | 4.5 | J | 3.7 | 10 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 3.7 | 10 |
| 10738 | Endrin | 72-20-8 | N.D. | | 3.7 | 10 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 3.7 | 10 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 6.8 | 10 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 1.9 | 10 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 1.9 | 10 |
| 10738 | Methoxychlor | 72-43-5 | 22 | J | 19 | 10 |

**Sample Description: MW-4-36-38 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923784**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 12:36 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

MW-4- SDG#: BTR08-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 120 | 10 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 11.2 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 08:50 | Kathrine K Muramatsu | 1.02 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:38 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:36 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:37 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 23:14 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 19:19 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 01:31 | Jamie L Brillhart | 10 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 01:46 | Jamie L Brillhart | 100 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-10-8-10 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923785**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-1 SDG#: BTR08-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | | 8 | 0.96 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.6 | 0.96 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 0.96 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 0.96 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 0.96 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 5 | 0.96 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 0.96 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 0.96 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | | 1 | 0.96 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 0.96 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 0.96 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 0.96 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 0.96 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 0.96 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 0.96 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 0.96 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 0.96 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 0.96 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 0.96 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 0.96 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 0.96 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | | 1 | 0.96 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 0.96 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 0.96 |
| 10950 | Methylene Chloride | 75-09-2 | 4 | J | 2 | 0.96 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 0.96 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 0.96 |
| 10950 | Tetrachloroethene | 127-18-4 | 2 | J | 1 | 0.96 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 0.96 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 0.96 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 0.96 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 0.96 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 0.96 |
| 10950 | Xylene (Total) | 1330-20-7 | 1 | J | 1 | 0.96 |

The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 140 | 10 |
| 01865 | Dalapon | 75-99-0 | N.D. | | 360 | 10 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 75 | 10 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 48 | 10 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 96 | 10 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 96 | 10 |
| 01865 | MCPA | 94-74-6 | N.D. | | 9,100 | 10 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 9,000 | 10 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 9.9 | 10 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 9.0 | 10 |

The recovery for Dinoseb is outside the QC limits. However, this compound does

**Sample Description: SB-10-8-10 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923785**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-1 SDG#: BTR08-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| | not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly. | | | | |
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | 260 | 10 |
| 06678 | Coumaphos | 56-72-4 | N.D. | 260 | 10 |
| 06678 | Demeton-O | 298-03-3 | N.D. | 260 | 10 |
| 06678 | Demeton-S | 126-75-0 | N.D. | 260 | 10 |
| 06678 | Diazinon | 333-41-5 | N.D. | 260 | 10 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | 260 | 10 |
| 06678 | Disulfoton | 298-04-4 | N.D. | 260 | 10 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | 260 | 10 |
| 06678 | EPN | 2104-64-5 | N.D. | 260 | 10 |
| 06678 | Ethion | 563-12-2 | N.D. | 260 | 10 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | 260 | 10 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | 260 | 10 |
| 06678 | Famphur | 52-85-7 | N.D. | 260 | 10 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | 600 | 10 |
| 06678 | Fenthion | 55-38-9 | N.D. | 260 | 10 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | 300 | 10 |
| 06678 | Malathion | 121-75-5 | N.D. | 260 | 10 |
| 06678 | Merphos | 150-50-5 | N.D. | 260 | 10 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | 260 | 10 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | 260 | 10 |
| 06678 | Naled | 300-76-5 | N.D. | 520 | 10 |
| 06678 | Phorate | 298-02-2 | N.D. | 260 | 10 |
| 06678 | Ronnel | 299-84-3 | N.D. | 260 | 10 |
| 06678 | Stirophos | 961-11-5 | N.D. | 260 | 10 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | 260 | 10 |
| 06678 | Trichloronate | 327-98-0 | N.D. | 260 | 10 |
| 06678 | Trithion | 786-19-6 | N.D. | 260 | 10 |
| | Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly. | | | | |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | 20 | 100 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | 20 | 100 |
| 10738 | Beta BHC | 319-85-7 | N.D. | 120 | 100 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | 20 | 100 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | 20 | 100 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | 20 | 100 |
| 10738 | p,p-DDD | 72-54-8 | 2,100 | 400 | 1000 |
| 10738 | p,p-DDE | 72-55-9 | 1,300 | 40 | 100 |
| 10738 | p,p-DDT | 50-29-3 | 540 | 40 | 100 |
| 10738 | Delta BHC | 319-86-8 | N.D. | 54 | 100 |
| 10738 | Dieldrin | 60-57-1 | N.D. | 40 | 100 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | 26 | 100 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | 40 | 100 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | 40 | 100 |
| 10738 | Endrin | 72-20-8 | N.D. | 40 | 100 |

**Sample Description: SB-10-8-10 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923785**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-1 SDG#: BTR08-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 40 | 100 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 72 | 100 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 20 | 100 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 20 | 100 |
| 10738 | Methoxychlor | 72-43-5 | 480 | J | 200 | 100 |
| 10738 | Toxaphene | 8001-35-2 | N.D. | | 1,300 | 100 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | | **%** | |
| 00111 | Moisture | n.a. | 16.9 | | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 10:42 | Kathrine K Muramatsu | 0.96 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:40 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:38 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:39 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/19/2010 00:37 | Michele D Hamilton | 10 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 21:53 | Michele D Hamilton | 10 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 23:28 | Jamie L Brillhart | 100 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 23:43 | Jamie L Brillhart | 1000 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |

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# Analysis Report



**Sample Description: SB-10-8-10 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923785**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-1 SDG#: BTR08-12

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

Lancaster Laboratories

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# Analysis Report



**Sample Description: SB-10-12-14 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923786**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:15 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-2 SDG#: BTR08-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | | 370 | 45.54 |
| 10950 | Benzene | 71-43-2 | N.D. | | 26 | 45.54 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 52 | 45.54 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 52 | 45.54 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 100 | 45.54 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 210 | 45.54 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 52 | 45.54 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 52 | 45.54 |
| 10950 | Chlorobenzene | 108-90-7 | 230 | J | 52 | 45.54 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 100 | 45.54 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 52 | 45.54 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 100 | 45.54 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 52 | 45.54 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 52 | 45.54 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 52 | 45.54 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 52 | 45.54 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 52 | 45.54 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 52 | 45.54 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 52 | 45.54 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 52 | 45.54 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 52 | 45.54 |
| 10950 | Ethylbenzene | 100-41-4 | 4,600 | | 52 | 45.54 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 160 | 45.54 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 160 | 45.54 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | | 100 | 45.54 |
| 10950 | Styrene | 100-42-5 | N.D. | | 52 | 45.54 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 52 | 45.54 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | | 52 | 45.54 |
| 10950 | Toluene | 108-88-3 | N.D. | | 52 | 45.54 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 52 | 45.54 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 52 | 45.54 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 52 | 45.54 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 52 | 45.54 |
| 10950 | Xylene (Total) | 1330-20-7 | 32,000 | | 52 | 45.54 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 14 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | | 34 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 7.1 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.6 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 9.2 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 9.2 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 870 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 860 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.94 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.86 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-10-12-14 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923786**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:15 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-2 SDG#: BTR08-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 250 | 10 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 250 | 10 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 250 | 10 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 250 | 10 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 250 | 10 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 250 | 10 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 250 | 10 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 250 | 10 |
| 06678 | EPN | 2104-64-5 | N.D. | | 250 | 10 |
| 06678 | Ethion | 563-12-2 | N.D. | | 250 | 10 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 250 | 10 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 250 | 10 |
| 06678 | Famphur | 52-85-7 | N.D. | | 250 | 10 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 570 | 10 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 250 | 10 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 290 | 10 |
| 06678 | Malathion | 121-75-5 | N.D. | | 250 | 10 |
| 06678 | Merphos | 150-50-5 | N.D. | | 250 | 10 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 250 | 10 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 250 | 10 |
| 06678 | Naled | 300-76-5 | N.D. | | 490 | 10 |
| 06678 | Phorate | 298-02-2 | N.D. | | 250 | 10 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 250 | 10 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 250 | 10 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 250 | 10 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 250 | 10 |
| 06678 | Trithion | 786-19-6 | N.D. | | 250 | 10 |

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 58 | 100 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 58 | 100 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 330 | 100 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 1,800 | | 58 | 100 |
| 10738 | Alpha Chlordane | 5103-71-9 | 400 | | 58 | 100 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 58 | 100 |
| 10738 | p,p-DDD | 72-54-8 | 93,000 | | 5,700 | 5000 |
| 10738 | p,p-DDE | 72-55-9 | 2,900 | | 110 | 100 |
| 10738 | p,p-DDT | 50-29-3 | 8,800 | J | 5,700 | 5000 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 150 | 100 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 3,700 | 100 |
| 10738 | Endosulfan I | 959-98-8 | 180 | J | 76 | 100 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 110 | 100 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 110 | 100 |
| 10738 | Endrin | 72-20-8 | N.D. | | 110 | 100 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 110 | 100 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 210 | 100 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 58 | 100 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 58 | 100 |

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# Analysis Report



**Sample Description: SB-10-12-14 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923786**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:15 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-2 SDG#: BTR08-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Methoxychlor | 72-43-5 | N.D. | 580 | 100 |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 3,800 | 100 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | |
|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 12.8 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | R100711AA | 03/12/2010 13:13 | Nicholas R Rossi | 45.54 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:43 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:41 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:42 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/19/2010 01:04 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 22:29 | Michele D Hamilton | 10 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 23:58 | Jamie L Brillhart | 100 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 00:14 | Jamie L Brillhart | 5000 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-10-14-16 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923787**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:19 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-3 SDG#: BTR08-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | | 9 | 0.98 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.6 | 0.98 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 0.98 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 0.98 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 3 | 0.98 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 5 | 0.98 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 0.98 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 0.98 |
| 10950 | Chlorobenzene | 108-90-7 | 12 | | 1 | 0.98 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 3 | 0.98 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 0.98 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 3 | 0.98 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 0.98 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 0.98 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 0.98 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 0.98 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 0.98 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 0.98 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 0.98 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 0.98 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 0.98 |
| 10950 | Ethylbenzene | 100-41-4 | 200 | | 1 | 0.98 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 4 | 0.98 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 4 | 0.98 |
| 10950 | Methylene Chloride | 75-09-2 | 5 | J | 3 | 0.98 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 0.98 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 0.98 |
| 10950 | Tetrachloroethene | 127-18-4 | 2 | J | 1 | 0.98 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 0.98 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 0.98 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 0.98 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 0.98 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 0.98 |
| 10950 | Xylene (Total) | 1330-20-7 | 18,000 | | 67 | 51.76 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 310 | 20 |
| 01865 | Dalapon | 75-99-0 | N.D. | | 780 | 20 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 160 | 20 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 100 | 20 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 210 | 20 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 210 | 20 |
| 01865 | MCPA | 94-74-6 | N.D. | | 20,000 | 20 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 19,000 | 20 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 21 | 20 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 19 | 20 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-10-14-16 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923787**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:19 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-3 SDG#: BTR08-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| | Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly. | | | | | |
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 280 | 10 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 280 | 10 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 280 | 10 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 280 | 10 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 280 | 10 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 280 | 10 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 280 | 10 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 280 | 10 |
| 06678 | EPN | 2104-64-5 | N.D. | | 280 | 10 |
| 06678 | Ethion | 563-12-2 | N.D. | | 280 | 10 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 280 | 10 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 280 | 10 |
| 06678 | Famphur | 52-85-7 | N.D. | | 280 | 10 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 650 | 10 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 280 | 10 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 320 | 10 |
| 06678 | Malathion | 121-75-5 | N.D. | | 280 | 10 |
| 06678 | Merphos | 150-50-5 | N.D. | | 280 | 10 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 280 | 10 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 280 | 10 |
| 06678 | Naled | 300-76-5 | N.D. | | 560 | 10 |
| 06678 | Phorate | 298-02-2 | N.D. | | 280 | 10 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 280 | 10 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 280 | 10 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 280 | 10 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 280 | 10 |
| 06678 | Trithion | 786-19-6 | N.D. | | 280 | 10 |
| | Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly. | | | | | |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 170 | 250 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 170 | 250 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 930 | 250 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 9,100 | J | 6,600 | 10000 |
| 10738 | Alpha Chlordane | 5103-71-9 | 1,400 | | 170 | 250 |
| 10738 | Gamma Chlordane | 5103-74-2 | 2,400 | | 170 | 250 |
| 10738 | p,p-DDD | 72-54-8 | 380,000 | | 13,000 | 10000 |
| 10738 | p,p-DDE | 72-55-9 | N.D. | | 13,000 | 10000 |
| 10738 | p,p-DDT | 50-29-3 | 120,000 | | 13,000 | 10000 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 440 | 250 |
| 10738 | Dieldrin | 60-57-1 | 17,000 | J | 13,000 | 10000 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 210 | 250 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 320 | 250 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 320 | 250 |
| 10738 | Endrin | 72-20-8 | N.D. | | 320 | 250 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 320 | 250 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 580 | 250 |

**Sample Description: SB-10-14-16 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923787**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:19 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-3 SDG#: BTR08-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 170 | 250 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 320 | 250 |
| 10738 | Methoxychlor | 72-43-5 | 93,000 | J | 66,000 | 10000 |
| 10738 | Toxaphene | 8001-35-2 | N.D. | | 11,000 | 250 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.
Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide represent the lowest reporting limits attainable.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | | **%** | |
| 00111 | Moisture | n.a. | 22.8 | | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 13:43 | Kathrine K Muramatsu | 0.98 |
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | R100761AA | 03/17/2010 12:18 | Nicholas R Rossi | 51.76 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:45 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:44 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:45 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/19/2010 01:31 | Michele D Hamilton | 20 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 23:05 | Michele D Hamilton | 10 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 04:03 | Jamie L Brillhart | 250 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 04:19 | Jamie L Brillhart | 10000 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |

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# Analysis Report



**Sample Description: SB-10-14-16 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923787**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:19 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-3 SDG#: BTR08-14

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-10-22-24 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923788**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:35 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-4 SDG#: BTR08-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | N.D. | | 7 | 0.93 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.5 | 0.93 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 0.93 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 0.93 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 0.93 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 4 | 0.93 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 0.93 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 0.93 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | | 1 | 0.93 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 0.93 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 0.93 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 0.93 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 0.93 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 0.93 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 0.93 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 0.93 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 0.93 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 0.93 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 0.93 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 0.93 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 0.93 |
| 10950 | Ethylbenzene | 100-41-4 | 1 | J | 1 | 0.93 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 0.93 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 0.93 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | | 2 | 0.93 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 0.93 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 0.93 |
| 10950 | Tetrachloroethene | 127-18-4 | 4 | J | 1 | 0.93 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 0.93 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 0.93 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 0.93 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 0.93 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 0.93 |
| 10950 | Xylene (Total) | 1330-20-7 | 10 | | 1 | 0.93 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 13 | 1 |
| 01865 | Dalapon | 75-99-0 | 74 | J | 33 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 6.7 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.3 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 8.7 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 8.7 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 830 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 810 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.89 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.81 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-10-22-24 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923788**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:35 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-4 SDG#: BTR08-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 240 | 10 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 240 | 10 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 240 | 10 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 240 | 10 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 240 | 10 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 240 | 10 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 240 | 10 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 240 | 10 |
| 06678 | EPN | 2104-64-5 | N.D. | | 240 | 10 |
| 06678 | Ethion | 563-12-2 | N.D. | | 240 | 10 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 240 | 10 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 240 | 10 |
| 06678 | Famphur | 52-85-7 | N.D. | | 240 | 10 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 540 | 10 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 240 | 10 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 270 | 10 |
| 06678 | Malathion | 121-75-5 | N.D. | | 240 | 10 |
| 06678 | Merphos | 150-50-5 | N.D. | | 240 | 10 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 240 | 10 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 240 | 10 |
| 06678 | Naled | 300-76-5 | N.D. | | 470 | 10 |
| 06678 | Phorate | 298-02-2 | N.D. | | 240 | 10 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 240 | 10 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 240 | 10 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 240 | 10 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 240 | 10 |
| 06678 | Trithion | 786-19-6 | N.D. | | 240 | 10 |

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | 1,200 | | 180 | 1000 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 180 | 1000 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1,000 | 1000 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 210 | J | 180 | 1000 |
| 10738 | Alpha Chlordane | 5103-71-9 | 850 | J | 180 | 1000 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 180 | 1000 |
| 10738 | p,p-DDD | 72-54-8 | 230,000 | | 18,000 | 50000 |
| 10738 | p,p-DDE | 72-55-9 | 11,000 | | 360 | 1000 |
| 10738 | p,p-DDT | 50-29-3 | 720,000 | | 90,000 | 250000 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 490 | 1000 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 360 | 1000 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 240 | 1000 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 360 | 1000 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 360 | 1000 |
| 10738 | Endrin | 72-20-8 | N.D. | | 360 | 1000 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 360 | 1000 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 650 | 1000 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 180 | 1000 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 180 | 1000 |

**Sample Description: SB-10-22-24 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923788**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:35 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-4 SDG#: BTR08-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Methoxychlor | 72-43-5 | 7,200 | J | 1,800 | 1000 |
| 10738 | Toxaphene | 8001-35-2 | N.D. | | 12,000 | 1000 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | | **%** | |
| 00111 | Moisture | n.a. | 7.9 | | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 09:35 | Kathrine K Muramatsu | 0.93 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:48 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:46 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:47 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/19/2010 01:59 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 23:42 | Michele D Hamilton | 10 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 00:44 | Jamie L Brillhart | 1000 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 00:59 | Jamie L Brillhart | 50000 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 01:14 | Jamie L Brillhart | 250000 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |

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# Analysis Report



**Sample Description: SB-10-22-24 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923788**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:35 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-4 SDG#: BTR08-15

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

Lancaster Laboratories

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# Analysis Report



**Sample Description: SB-10-30-32 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923789**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | 14 | J | 7 | 0.98 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.5 | 0.98 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 0.98 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 0.98 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 0.98 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 4 | 0.98 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 0.98 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 0.98 |
| 10950 | Chlorobenzene | 108-90-7 | 6 | | 1 | 0.98 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 0.98 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 0.98 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 0.98 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 0.98 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 0.98 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 0.98 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 0.98 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 0.98 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 0.98 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 0.98 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 0.98 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 0.98 |
| 10950 | Ethylbenzene | 100-41-4 | 100 | | 1 | 0.98 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 0.98 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 0.98 |
| 10950 | Methylene Chloride | 75-09-2 | N.D. | | 2 | 0.98 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 0.98 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 0.98 |
| 10950 | Tetrachloroethene | 127-18-4 | 4 | J | 1 | 0.98 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 0.98 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 0.98 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 0.98 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 0.98 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 0.98 |
| 10950 | Xylene (Total) | 1330-20-7 | 680 | | 1 | 0.98 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 13 | 1 |
| 01865 | Dalapon | 75-99-0 | 45 | J | 32 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 6.6 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.3 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 8.5 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 8.5 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 810 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 800 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.87 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.80 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-10-30-32 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923789**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 53 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 27 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 23 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 46 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 23 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 180 | 1000 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 180 | 1000 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1,000 | 1000 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 180 | 1000 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 180 | 1000 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 180 | 1000 |
| 10738 | p,p-DDD | 72-54-8 | 69,000 | J | 18,000 | 50000 |
| 10738 | p,p-DDE | 72-55-9 | 7,300 | | 350 | 1000 |
| 10738 | p,p-DDT | 50-29-3 | 580,000 | | 18,000 | 50000 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 480 | 1000 |
| 10738 | Dieldrin | 60-57-1 | 7,800 | | 350 | 1000 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 230 | 1000 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 350 | 1000 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 350 | 1000 |
| 10738 | Endrin | 72-20-8 | N.D. | | 350 | 1000 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 350 | 1000 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 640 | 1000 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 180 | 1000 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 180 | 1000 |
| 10738 | Methoxychlor | 72-43-5 | 5,400 | J | 1,800 | 1000 |

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# Analysis Report



**Sample Description: SB-10-30-32 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923789**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 12,000 | 1000 |

Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported.

| | | | | | |
|---|---|---|---|---|---|
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 6.1 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 11:27 | Kathrine K Muramatsu | 0.98 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:50 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:49 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:49 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 15:53 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 00:45 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 01:30 | Jamie L Brillhart | 1000 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 01:45 | Jamie L Brillhart | 50000 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-10-30-32MS Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923790**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | 120 | | 7 | 0.97 |
| 10950 | Benzene | 71-43-2 | 22 | | 0.5 | 0.97 |
| 10950 | Bromodichloromethane | 75-27-4 | 21 | | 1 | 0.97 |
| 10950 | Bromoform | 75-25-2 | 19 | | 1 | 0.97 |
| 10950 | Bromomethane | 74-83-9 | 20 | | 2 | 0.97 |
| 10950 | 2-Butanone | 78-93-3 | 110 | | 4 | 0.97 |
| 10950 | Carbon Disulfide | 75-15-0 | 23 | | 1 | 0.97 |
| 10950 | Carbon Tetrachloride | 56-23-5 | 22 | | 1 | 0.97 |
| 10950 | Chlorobenzene | 108-90-7 | 20 | | 1 | 0.97 |
| 10950 | Chloroethane | 75-00-3 | 21 | | 2 | 0.97 |
| 10950 | Chloroform | 67-66-3 | 23 | | 1 | 0.97 |
| 10950 | Chloromethane | 74-87-3 | 18 | | 2 | 0.97 |
| 10950 | Dibromochloromethane | 124-48-1 | 21 | | 1 | 0.97 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | 22 | | 1 | 0.97 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | 21 | | 1 | 0.97 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | 24 | | 1 | 0.97 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | 23 | | 1 | 0.97 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | 24 | | 1 | 0.97 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | 21 | | 1 | 0.97 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | 19 | | 1 | 0.97 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | 21 | | 1 | 0.97 |
| 10950 | Ethylbenzene | 100-41-4 | 19 | | 1 | 0.97 |
| 10950 | 2-Hexanone | 591-78-6 | 64 | | 3 | 0.97 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | 70 | | 3 | 0.97 |
| 10950 | Methylene Chloride | 75-09-2 | 25 | | 2 | 0.97 |
| 10950 | Styrene | 100-42-5 | 19 | | 1 | 0.97 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | 24 | | 1 | 0.97 |
| 10950 | Tetrachloroethene | 127-18-4 | 20 | | 1 | 0.97 |
| 10950 | Toluene | 108-88-3 | 22 | | 1 | 0.97 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | 23 | | 1 | 0.97 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | 23 | | 1 | 0.97 |
| 10950 | Trichloroethene | 79-01-6 | 21 | | 1 | 0.97 |
| 10950 | Vinyl Chloride | 75-01-4 | 20 | | 1 | 0.97 |
| 10950 | Xylene (Total) | 1330-20-7 | 58 | | 1 | 0.97 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | 78 | | 13 | 1 |
| 01865 | Dalapon | 75-99-0 | 180 | | 32 | 1 |
| 01865 | 2,4-DB | 94-82-6 | 75 | | 6.6 | 1 |
| 01865 | Dicamba | 1918-00-9 | 10 | J | 4.3 | 1 |
| 01865 | Dinoseb | 88-85-7 | 21 | J | 8.5 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | 100 | | 8.5 | 1 |
| 01865 | MCPA | 94-74-6 | 8,700 | | 810 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | 8,500 | | 800 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | 3.8 | | 0.87 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | 7.3 | | 0.80 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-10-30-32MS Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923790**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | 200 | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | 380 | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | 70 | J | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | 140 | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | 220 | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | 320 | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | 220 | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | 270 | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | 430 | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | 230 | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | 340 | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | 380 | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 270 | 1 |
| 06678 | Fenthion | 55-38-9 | 250 | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | 810 | | 27 | 1 |
| 06678 | Malathion | 121-75-5 | 250 | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | 410 | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | 250 | | 23 | 1 |
| 06678 | Naled | 300-76-5 | 220 | | 46 | 1 |
| 06678 | Phorate | 298-02-2 | 200 | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | 270 | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | 260 | | 110 | 1 |
| 06678 | Trithion | 786-19-6 | 180 | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 180 | 1000 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 180 | 1000 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1,000 | 1000 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 720 | J | 180 | 1000 |
| 10738 | Alpha Chlordane | 5103-71-9 | 3,900 | | 180 | 1000 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 180 | 1000 |
| 10738 | p,p-DDD | 72-54-8 | N.D. | | 350 | 1000 |
| 10738 | p,p-DDE | 72-55-9 | 98,000 | | 350 | 1000 |
| 10738 | p,p-DDT | 50-29-3 | N.D. | | 350 | 1000 |
| 10738 | Delta BHC | 319-86-8 | 2,400 | | 480 | 1000 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 350 | 1000 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 230 | 1000 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 350 | 1000 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 350 | 1000 |
| 10738 | Endrin | 72-20-8 | N.D. | | 350 | 1000 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 350 | 1000 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 640 | 1000 |
| 10738 | Heptachlor | 76-44-8 | 740 | J | 180 | 1000 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 180 | 1000 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 1,800 | 1000 |

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# Analysis Report



**Sample Description: SB-10-30-32MS Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923790**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 12,000 | 1000 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00118 | Moisture | n.a. | 6.1 | 0.50 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 11:50 | Kathrine K Muramatsu | 0.97 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:52 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:51 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:51 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 16:21 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 01:22 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 02:16 | Jamie L Brillhart | 1000 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00118 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-10-30-32MSD Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923791**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | 130 | | 7 | 0.97 |
| 10950 | Benzene | 71-43-2 | 21 | | 0.5 | 0.97 |
| 10950 | Bromodichloromethane | 75-27-4 | 21 | | 1 | 0.97 |
| 10950 | Bromoform | 75-25-2 | 19 | | 1 | 0.97 |
| 10950 | Bromomethane | 74-83-9 | 20 | | 2 | 0.97 |
| 10950 | 2-Butanone | 78-93-3 | 120 | | 4 | 0.97 |
| 10950 | Carbon Disulfide | 75-15-0 | 22 | | 1 | 0.97 |
| 10950 | Carbon Tetrachloride | 56-23-5 | 21 | | 1 | 0.97 |
| 10950 | Chlorobenzene | 108-90-7 | 19 | | 1 | 0.97 |
| 10950 | Chloroethane | 75-00-3 | 20 | | 2 | 0.97 |
| 10950 | Chloroform | 67-66-3 | 22 | | 1 | 0.97 |
| 10950 | Chloromethane | 74-87-3 | 18 | | 2 | 0.97 |
| 10950 | Dibromochloromethane | 124-48-1 | 20 | | 1 | 0.97 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | 21 | | 1 | 0.97 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | 20 | | 1 | 0.97 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | 23 | | 1 | 0.97 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | 22 | | 1 | 0.97 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | 23 | | 1 | 0.97 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | 20 | | 1 | 0.97 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | 19 | | 1 | 0.97 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | 20 | | 1 | 0.97 |
| 10950 | Ethylbenzene | 100-41-4 | 18 | | 1 | 0.97 |
| 10950 | 2-Hexanone | 591-78-6 | 72 | | 3 | 0.97 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | 76 | | 3 | 0.97 |
| 10950 | Methylene Chloride | 75-09-2 | 24 | | 2 | 0.97 |
| 10950 | Styrene | 100-42-5 | 17 | | 1 | 0.97 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | 24 | | 1 | 0.97 |
| 10950 | Tetrachloroethene | 127-18-4 | 19 | | 1 | 0.97 |
| 10950 | Toluene | 108-88-3 | 20 | | 1 | 0.97 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | 22 | | 1 | 0.97 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | 22 | | 1 | 0.97 |
| 10950 | Trichloroethene | 79-01-6 | 20 | | 1 | 0.97 |
| 10950 | Vinyl Chloride | 75-01-4 | 19 | | 1 | 0.97 |
| 10950 | Xylene (Total) | 1330-20-7 | 57 | | 1 | 0.97 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | 81 | | 13 | 1 |
| 01865 | Dalapon | 75-99-0 | 110 | | 32 | 1 |
| 01865 | 2,4-DB | 94-82-6 | 80 | | 6.6 | 1 |
| 01865 | Dicamba | 1918-00-9 | 9.4 | J | 4.3 | 1 |
| 01865 | Dinoseb | 88-85-7 | 24 | J | 8.5 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | 100 | | 8.5 | 1 |
| 01865 | MCPA | 94-74-6 | 8,800 | | 810 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | 6,300 | | 800 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | 3.4 | | 0.87 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | 7.1 | | 0.80 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-10-30-32MSD Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923791**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | 200 | | 23 | 1 |
| 06678 | Coumaphos | 56-72-4 | 390 | | 23 | 1 |
| 06678 | Demeton-O | 298-03-3 | 68 | J | 23 | 1 |
| 06678 | Demeton-S | 126-75-0 | 140 | | 23 | 1 |
| 06678 | Diazinon | 333-41-5 | 220 | | 23 | 1 |
| 06678 | Dichlorvos | 62-73-7 | 320 | | 23 | 1 |
| 06678 | Disulfoton | 298-04-4 | 220 | | 23 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | 270 | | 23 | 1 |
| 06678 | EPN | 2104-64-5 | 440 | | 23 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 23 | 1 |
| 06678 | Ethoprop | 13194-48-4 | 230 | | 23 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | 350 | | 23 | 1 |
| 06678 | Famphur | 52-85-7 | 390 | | 23 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 270 | 1 |
| 06678 | Fenthion | 55-38-9 | 260 | | 23 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | 850 | | 27 | 1 |
| 06678 | Malathion | 121-75-5 | 260 | | 23 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 23 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | 420 | | 23 | 1 |
| 06678 | Mevinphos | 7786-34-7 | 250 | | 23 | 1 |
| 06678 | Naled | 300-76-5 | 220 | | 46 | 1 |
| 06678 | Phorate | 298-02-2 | 200 | | 23 | 1 |
| 06678 | Ronnel | 299-84-3 | 270 | | 23 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 23 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 23 | 1 |
| 06678 | Trichloronate | 327-98-0 | 280 | | 110 | 1 |
| 06678 | Trithion | 786-19-6 | 180 | | 23 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 180 | 1000 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 180 | 1000 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 1,000 | 1000 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | 720 | J | 180 | 1000 |
| 10738 | Alpha Chlordane | 5103-71-9 | 2,200 | | 180 | 1000 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 180 | 1000 |
| 10738 | p,p-DDD | 72-54-8 | N.D. | | 350 | 1000 |
| 10738 | p,p-DDE | 72-55-9 | 88,000 | | 350 | 1000 |
| 10738 | p,p-DDT | 50-29-3 | N.D. | | 350 | 1000 |
| 10738 | Delta BHC | 319-86-8 | 2,300 | | 480 | 1000 |
| 10738 | Dieldrin | 60-57-1 | N.D. | | 350 | 1000 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 230 | 1000 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 350 | 1000 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 350 | 1000 |
| 10738 | Endrin | 72-20-8 | N.D. | | 350 | 1000 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 350 | 1000 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 640 | 1000 |
| 10738 | Heptachlor | 76-44-8 | 670 | J | 180 | 1000 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 180 | 1000 |
| 10738 | Methoxychlor | 72-43-5 | 11,000 | | 1,800 | 1000 |

**Sample Description: SB-10-30-32MSD Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923791**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 12,000 | 1000 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00118 | Moisture | n.a. | 6.1 | 0.50 | 1 |
| 00121 | Moisture Duplicate | n.a. | 6.1 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100751AA | 03/16/2010 12:13 | Kathrine K Muramatsu | 0.97 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:55 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:54 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:53 | Scott W Freisher | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/18/2010 16:49 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/18/2010 01:58 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/26/2010 02:31 | Jamie L Brillhart | 1000 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |
| 00118 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-10-30-32MSD Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923791**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 14:50 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-5 SDG#: BTR08-16MSD

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 00121 | Moisture Duplicate | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: SB-10-38-40 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923792**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 15:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-6 SDG#: BTR08-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/kg** | | **ug/kg** | |
| 10950 | Acetone | 67-64-1 | 15 | J | 8 | 1.01 |
| 10950 | Benzene | 71-43-2 | N.D. | | 0.6 | 1.01 |
| 10950 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 1.01 |
| 10950 | Bromoform | 75-25-2 | N.D. | | 1 | 1.01 |
| 10950 | Bromomethane | 74-83-9 | N.D. | | 2 | 1.01 |
| 10950 | 2-Butanone | 78-93-3 | N.D. | | 5 | 1.01 |
| 10950 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 1.01 |
| 10950 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 1.01 |
| 10950 | Chlorobenzene | 108-90-7 | N.D. | | 1 | 1.01 |
| 10950 | Chloroethane | 75-00-3 | N.D. | | 2 | 1.01 |
| 10950 | Chloroform | 67-66-3 | N.D. | | 1 | 1.01 |
| 10950 | Chloromethane | 74-87-3 | N.D. | | 2 | 1.01 |
| 10950 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 1.01 |
| 10950 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 1.01 |
| 10950 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 1.01 |
| 10950 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 1 | 1.01 |
| 10950 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 1 | 1.01 |
| 10950 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 1 | 1.01 |
| 10950 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 1.01 |
| 10950 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 1.01 |
| 10950 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 1.01 |
| 10950 | Ethylbenzene | 100-41-4 | N.D. | | 1 | 1.01 |
| 10950 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 1.01 |
| 10950 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 1.01 |
| 10950 | Methylene Chloride | 75-09-2 | 96 | | 2 | 1.01 |
| 10950 | Styrene | 100-42-5 | N.D. | | 1 | 1.01 |
| 10950 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 1.01 |
| 10950 | Tetrachloroethene | 127-18-4 | N.D. | | 1 | 1.01 |
| 10950 | Toluene | 108-88-3 | N.D. | | 1 | 1.01 |
| 10950 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 1 | 1.01 |
| 10950 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 1 | 1.01 |
| 10950 | Trichloroethene | 79-01-6 | N.D. | | 1 | 1.01 |
| 10950 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 1.01 |
| 10950 | Xylene (Total) | 1330-20-7 | N.D. | | 1 | 1.01 |
| **Herbicides** | **SW-846 8151A** | | **ug/kg** | | **ug/kg** | |
| 01865 | 2,4-D | 94-75-7 | N.D. | | 14 | 1 |
| 01865 | Dalapon | 75-99-0 | N.D. | | 34 | 1 |
| 01865 | 2,4-DB | 94-82-6 | N.D. | | 7.1 | 1 |
| 01865 | Dicamba | 1918-00-9 | N.D. | | 4.6 | 1 |
| 01865 | Dinoseb | 88-85-7 | N.D. | | 9.2 | 1 |
| 01865 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | | 9.2 | 1 |
| 01865 | MCPA | 94-74-6 | N.D. | | 870 | 1 |
| 01865 | MCPP (Mecoprop) | 93-65-2 | N.D. | | 860 | 1 |
| 01865 | 2,4,5-T | 93-76-5 | N.D. | | 0.94 | 1 |
| 01865 | 2,4,5-TP | 93-72-1 | N.D. | | 0.86 | 1 |

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

**Sample Description: SB-10-38-40 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923792**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 15:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-6 SDG#: BTR08-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/kg** | | **ug/kg** | |
| 06678 | Bolstar | 35400-43-2 | N.D. | | 25 | 1 |
| 06678 | Coumaphos | 56-72-4 | N.D. | | 25 | 1 |
| 06678 | Demeton-O | 298-03-3 | N.D. | | 25 | 1 |
| 06678 | Demeton-S | 126-75-0 | N.D. | | 25 | 1 |
| 06678 | Diazinon | 333-41-5 | N.D. | | 25 | 1 |
| 06678 | Dichlorvos | 62-73-7 | N.D. | | 25 | 1 |
| 06678 | Disulfoton | 298-04-4 | N.D. | | 25 | 1 |
| 06678 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | | 25 | 1 |
| 06678 | EPN | 2104-64-5 | N.D. | | 25 | 1 |
| 06678 | Ethion | 563-12-2 | N.D. | | 25 | 1 |
| 06678 | Ethoprop | 13194-48-4 | N.D. | | 25 | 1 |
| 06678 | Ethyl Parathion | 56-38-2 | N.D. | | 25 | 1 |
| 06678 | Famphur | 52-85-7 | N.D. | | 25 | 1 |
| 06678 | Fensulfothion | 115-90-2 | N.D. | | 57 | 1 |
| 06678 | Fenthion | 55-38-9 | N.D. | | 25 | 1 |
| 06678 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | | 29 | 1 |
| 06678 | Malathion | 121-75-5 | N.D. | | 25 | 1 |
| 06678 | Merphos | 150-50-5 | N.D. | | 25 | 1 |
| 06678 | Methyl Parathion | 298-00-0 | N.D. | | 25 | 1 |
| 06678 | Mevinphos | 7786-34-7 | N.D. | | 25 | 1 |
| 06678 | Naled | 300-76-5 | N.D. | | 49 | 1 |
| 06678 | Phorate | 298-02-2 | N.D. | | 25 | 1 |
| 06678 | Ronnel | 299-84-3 | N.D. | | 25 | 1 |
| 06678 | Stirophos | 961-11-5 | N.D. | | 25 | 1 |
| 06678 | Tokuthion | 34643-46-4 | N.D. | | 25 | 1 |
| 06678 | Trichloronate | 327-98-0 | N.D. | | 25 | 1 |
| 06678 | Trithion | 786-19-6 | N.D. | | 25 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | | **ug/kg** | |
| 10738 | Aldrin | 309-00-2 | N.D. | | 9.7 | 50 |
| 10738 | Alpha BHC | 319-84-6 | N.D. | | 9.7 | 50 |
| 10738 | Beta BHC | 319-85-7 | N.D. | | 55 | 50 |
| 10738 | Gamma BHC - Lindane | 58-89-9 | N.D. | | 9.7 | 50 |
| 10738 | Alpha Chlordane | 5103-71-9 | N.D. | | 9.7 | 50 |
| 10738 | Gamma Chlordane | 5103-74-2 | N.D. | | 9.7 | 50 |
| 10738 | p,p-DDD | 72-54-8 | 370 | | 19 | 50 |
| 10738 | p,p-DDE | 72-55-9 | 21 | J | 19 | 50 |
| 10738 | p,p-DDT | 50-29-3 | 1,400 | | 190 | 500 |
| 10738 | Delta BHC | 319-86-8 | N.D. | | 26 | 50 |
| 10738 | Dieldrin | 60-57-1 | 20 | J | 19 | 50 |
| 10738 | Endosulfan I | 959-98-8 | N.D. | | 13 | 50 |
| 10738 | Endosulfan II | 33213-65-9 | N.D. | | 19 | 50 |
| 10738 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 19 | 50 |
| 10738 | Endrin | 72-20-8 | N.D. | | 19 | 50 |
| 10738 | Endrin Aldehyde | 7421-93-4 | N.D. | | 19 | 50 |
| 10738 | Endrin Ketone | 53494-70-5 | N.D. | | 34 | 50 |
| 10738 | Heptachlor | 76-44-8 | N.D. | | 9.7 | 50 |
| 10738 | Heptachlor Epoxide | 1024-57-3 | N.D. | | 9.7 | 50 |
| 10738 | Methoxychlor | 72-43-5 | N.D. | | 97 | 50 |

**Sample Description: SB-10-38-40 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923792**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 15:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-6 SDG#: BTR08-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/kg** | **ug/kg** | |
| 10738 | Toxaphene | 8001-35-2 | N.D. | 630 | 50 |
| | Due to the high concentration of target analytes in samples from this site, the method blank and laboratory control spike (LCS) were cross contaminated during the extraction process. p,p-DDT was detected in the method blank, and the LCS recovery for p,p-DDT was outside the QC limits at 266% (54-130%). A second extraction was performed and similar results for the method blank , LCS and the sample were observed. The client was notified and the second extraction results are reported. | | | | |
| **Wet Chemistry** | **SM20 2540 G** | | **%** | **%** | |
| 00111 | Moisture | n.a. | 12.7 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10950 | TCL by 8260 (soil) | SW-846 8260B | 1 | A100771AA | 03/18/2010 03:45 | Stephanie A Selis | 1.01 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:57 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 201006920565 | 03/10/2010 19:56 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 201006920565 | 03/10/2010 19:57 | Scott W Freisher | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 3 | 201007620602 | 03/17/2010 12:24 | Larry E Bevins | n.a. |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 100750014A | 03/19/2010 02:27 | Michele D Hamilton | 1 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 100740007A | 03/17/2010 19:55 | Michele D Hamilton | 1 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 05:31 | Jamie L Brillhart | 50 |
| 10738 | TCL Pesticides in Soil | SW-846 8081A | 1 | 100790004A | 03/25/2010 05:46 | Jamie L Brillhart | 500 |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 100740007A | 03/15/2010 14:35 | Wanda F Oswald | 1 |
| 10496 | PPL Pest. Microwave Extraction | SW-846 3546 | 2 | 100790004A | 03/21/2010 15:00 | Wanda F Oswald | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 100750014A | 03/17/2010 10:00 | Olivia I Santiago | 1 |

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# Analysis Report



**Sample Description: SB-10-38-40 Grab Soil**
**Bartlett Tree**

**LLI Sample # SW 5923792**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 15:08 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10-6 SDG#: BTR08-17

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 00111 | Moisture | SM20 2540 G | 1 | 10070820001B | 03/11/2010 15:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description: FB030910 Grab Water**
**Bartlett Tree**

**LLI Sample # WW 5923793**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 15:40 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10FB SDG#: BTR08-18FB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/l** | | **ug/l** | |
| 10903 | Acetone | 67-64-1 | N.D. | | 6 | 1 |
| 10903 | Benzene | 71-43-2 | N.D. | | 0.5 | 1 |
| 10903 | Bromodichloromethane | 75-27-4 | N.D. | | 1 | 1 |
| 10903 | Bromoform | 75-25-2 | N.D. | | 1 | 1 |
| 10903 | Bromomethane | 74-83-9 | N.D. | | 1 | 1 |
| 10903 | 2-Butanone | 78-93-3 | N.D. | | 3 | 1 |
| 10903 | Carbon Disulfide | 75-15-0 | N.D. | | 1 | 1 |
| 10903 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1 | 1 |
| 10903 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | 1 |
| 10903 | Chloroethane | 75-00-3 | N.D. | | 1 | 1 |
| 10903 | Chloroform | 67-66-3 | N.D. | | 0.8 | 1 |
| 10903 | Chloromethane | 74-87-3 | N.D. | | 1 | 1 |
| 10903 | Dibromochloromethane | 124-48-1 | N.D. | | 1 | 1 |
| 10903 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1 | 1 |
| 10903 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1 | 1 |
| 10903 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | 1 |
| 10903 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | 1 |
| 10903 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | 1 |
| 10903 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1 | 1 |
| 10903 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1 | 1 |
| 10903 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1 | 1 |
| 10903 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | 1 |
| 10903 | 2-Hexanone | 591-78-6 | N.D. | | 3 | 1 |
| 10903 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3 | 1 |
| 10903 | Methylene Chloride | 75-09-2 | N.D. | | 2 | 1 |
| 10903 | Styrene | 100-42-5 | N.D. | | 1 | 1 |
| 10903 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1 | 1 |
| 10903 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | 1 |
| 10903 | Toluene | 108-88-3 | N.D. | | 0.7 | 1 |
| 10903 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | 1 |
| 10903 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | 1 |
| 10903 | Trichloroethene | 79-01-6 | N.D. | | 1 | 1 |
| 10903 | Vinyl Chloride | 75-01-4 | N.D. | | 1 | 1 |
| 10903 | Xylene (Total) | 1330-20-7 | N.D. | | 0.8 | 1 |
| **Herbicides** | **SW-846 8151A** | | **ug/l** | | **ug/l** | |
| 01856 | 2,4-D | 94-75-7 | 0.24 | J | 0.16 | 1 |
| 01856 | Dalapon | 75-99-0 | N.D. | | 0.24 | 1 |
| 01856 | 2,4-DB | 94-82-6 | N.D. | | 0.29 | 1 |
| 01856 | Dicamba | 1918-00-9 | N.D. | | 0.078 | 1 |
| 01856 | Dinoseb | 88-85-7 | N.D. | | 0.098 | 1 |
| 01856 | 2,4-DP (Dichlorprop) | 120-36-5 | N.D. | | 0.16 | 1 |
| 01856 | MCPA | 94-74-6 | N.D. | | 290 | 1 |
| 01856 | MCPP | 93-65-2 | N.D. | | 49 | 1 |
| 01856 | 2,4,5-T | 93-76-5 | N.D. | | 0.015 | 1 |
| 01856 | 2,4,5-TP | 93-72-1 | N.D. | | 0.0098 | 1 |
| **Pesticides** | **SW-846 8141A** | | **ug/l** | | **ug/l** | |
| 06655 | Bolstar | 35400-43-2 | N.D. | | 0.49 | 1 |

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# Analysis Report



**Sample Description: FB030910 Grab Water**
**Bartlett Tree**

**LLI Sample # WW 5923793**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 15:40 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10FB SDG#: BTR08-18FB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Pesticides** | **SW-846 8141A** | | **ug/l** | **ug/l** | |
| 06655 | Coumaphos | 56-72-4 | N.D. | 0.98 | 1 |
| 06655 | Demeton-O | 298-03-3 | N.D. | 0.49 | 1 |
| 06655 | Demeton-S | 126-75-0 | N.D. | 1.2 | 1 |
| 06655 | Diazinon | 333-41-5 | N.D. | 2.0 | 1 |
| 06655 | Dichlorvos | 62-73-7 | N.D. | 0.98 | 1 |
| 06655 | Disulfoton | 298-04-4 | N.D. | 0.51 | 1 |
| 06655 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. | 0.98 | 1 |
| 06655 | EPN | 2104-64-5 | N.D. | 0.49 | 1 |
| 06655 | Ethion | 563-12-2 | N.D. | 0.49 | 1 |
| 06655 | Ethoprop | 13194-48-4 | N.D. | 1.2 | 1 |
| 06655 | Ethyl Parathion | 56-38-2 | N.D. | 0.49 | 1 |
| 06655 | Famphur | 52-85-7 | N.D. | 0.98 | 1 |
| 06655 | Fensulfothion | 115-90-2 | N.D. | 2.9 | 1 |
| 06655 | Fenthion | 55-38-9 | N.D. | 0.49 | 1 |
| 06655 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | 2.0 | 1 |
| 06655 | Malathion | 121-75-5 | N.D. | 0.98 | 1 |
| 06655 | Merphos | 150-50-5 | N.D. | 0.49 | 1 |
| 06655 | Methyl Parathion | 298-00-0 | N.D. | 0.49 | 1 |
| 06655 | Mevinphos | 7786-34-7 | N.D. | 1.5 | 1 |
| 06655 | Naled | 300-76-5 | N.D. | 2.0 | 1 |
| 06655 | Phorate | 298-02-2 | N.D. | 0.49 | 1 |
| 06655 | Ronnel | 299-84-3 | N.D. | 0.49 | 1 |
| 06655 | Stirophos | 961-11-5 | N.D. | 0.79 | 1 |
| 06655 | Tokuthion | 34643-46-4 | N.D. | 0.49 | 1 |
| 06655 | Trichloronate | 327-98-0 | N.D. | 0.49 | 1 |
| 06655 | Trithion | 786-19-6 | N.D. | 0.49 | 1 |
| **Pesticides/PCBs** | **SW-846 8081A** | | **ug/l** | **ug/l** | |
| 05936 | Aldrin | 309-00-2 | N.D. | 0.0029 | 1 |
| 05936 | Alpha BHC | 319-84-6 | N.D. | 0.0027 | 1 |
| 05936 | Beta BHC | 319-85-7 | N.D. | 0.0037 | 1 |
| 05936 | Gamma BHC - Lindane | 58-89-9 | N.D. | 0.0045 | 1 |
| 05936 | Alpha Chlordane | 5103-71-9 | N.D. | 0.0046 | 1 |
| 05936 | Gamma Chlordane | 5103-74-2 | N.D. | 0.0041 | 1 |
| 05936 | p,p-DDD | 72-54-8 | 0.33 | 0.012 | 1 |
| 05936 | p,p-DDE | 72-55-9 | 0.022 | 0.0049 | 1 |
| 05936 | p,p-DDT | 50-29-3 | 0.93 | 0.059 | 5 |
| 05936 | Delta BHC | 319-86-8 | N.D. | 0.0029 | 1 |
| 05936 | Dieldrin | 60-57-1 | N.D. | 0.0039 | 1 |
| 05936 | Endosulfan I | 959-98-8 | N.D. | 0.0029 | 1 |
| 05936 | Endosulfan II | 33213-65-9 | N.D. | 0.0039 | 1 |
| 05936 | Endosulfan Sulfate | 1031-07-8 | N.D. | 0.0055 | 1 |
| 05936 | Endrin | 72-20-8 | N.D. | 0.0039 | 1 |
| 05936 | Endrin Aldehyde | 7421-93-4 | N.D. | 0.020 | 1 |
| 05936 | Endrin Ketone | 53494-70-5 | N.D. | 0.017 | 1 |
| 05936 | Heptachlor | 76-44-8 | N.D. | 0.0039 | 1 |
| 05936 | Heptachlor Epoxide | 1024-57-3 | N.D. | 0.0036 | 1 |
| 05936 | Methoxychlor | 72-43-5 | N.D. | 0.029 | 1 |
| 05936 | Toxaphene | 8001-35-2 | N.D. | 0.98 | 1 |

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# Analysis Report



**Sample Description: FB030910 Grab Water**
**Bartlett Tree**

**LLI Sample # WW 5923793**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010 15:40 by CM

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10FB SDG#: BTR08-18FB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|

Due to the nature of the sample matrix, the DCB surrogate standard recovery is below the range of specifications.

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10903 | 8260 VOCs (Water) | SW-846 8260B | 1 | L100741AA | 03/15/2010 04:38 | Kathrine K Muramatsu | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | L100741AA | 03/15/2010 04:38 | Kathrine K Muramatsu | 1 |
| 01856 | Herbicides in Water | SW-846 8151A | 1 | 100740016A | 03/16/2010 19:22 | John W Perkins | 1 |
| 06655 | OP Pesticides in Water | SW-846 8141A | 1 | 100740020A | 03/17/2010 13:16 | Michele D Hamilton | 1 |
| 05936 | TCL Pesticides in Water | SW-846 8081A | 1 | 100740017A | 03/16/2010 21:46 | Lisa A Reinert | 1 |
| 05936 | TCL Pesticides in Water | SW-846 8081A | 1 | 100740017A | 03/16/2010 22:00 | Lisa A Reinert | 5 |
| 06654 | Organophosphate Water Ext. | SW-846 3510C | 1 | 100740020A | 03/16/2010 06:30 | Roman Kuropatkin | 1 |
| 00817 | Water Sample Pest. Extraction | SW-846 3510C | 1 | 100740017A | 03/16/2010 06:30 | Roman Kuropatkin | 1 |
| 00816 | Water Sample Herbicide Extract | SW-846 8151A | 1 | 100740016A | 03/16/2010 02:00 | David V Hershey Jr | 1 |

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# Analysis Report



**Sample Description: TB030910 Water**
**Bartlett Tree**

**LLI Sample # WW 5923794**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010

Account Number: 09286

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10TB SDG#: BTR08-19TB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260B** | | **ug/l** | **ug/l** | |
| 10903 | Acetone | 67-64-1 | N.D. | 6 | 1 |
| 10903 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10903 | Bromodichloromethane | 75-27-4 | N.D. | 1 | 1 |
| 10903 | Bromoform | 75-25-2 | N.D. | 1 | 1 |
| 10903 | Bromomethane | 74-83-9 | N.D. | 1 | 1 |
| 10903 | 2-Butanone | 78-93-3 | N.D. | 3 | 1 |
| 10903 | Carbon Disulfide | 75-15-0 | N.D. | 1 | 1 |
| 10903 | Carbon Tetrachloride | 56-23-5 | N.D. | 1 | 1 |
| 10903 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | 1 |
| 10903 | Chloroethane | 75-00-3 | N.D. | 1 | 1 |
| 10903 | Chloroform | 67-66-3 | N.D. | 0.8 | 1 |
| 10903 | Chloromethane | 74-87-3 | N.D. | 1 | 1 |
| 10903 | Dibromochloromethane | 124-48-1 | N.D. | 1 | 1 |
| 10903 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1 | 1 |
| 10903 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1 | 1 |
| 10903 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | 1 |
| 10903 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | 1 |
| 10903 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | 1 |
| 10903 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1 | 1 |
| 10903 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1 | 1 |
| 10903 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1 | 1 |
| 10903 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | 1 |
| 10903 | 2-Hexanone | 591-78-6 | N.D. | 3 | 1 |
| 10903 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3 | 1 |
| 10903 | Methylene Chloride | 75-09-2 | N.D. | 2 | 1 |
| 10903 | Styrene | 100-42-5 | N.D. | 1 | 1 |
| 10903 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1 | 1 |
| 10903 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | 1 |
| 10903 | Toluene | 108-88-3 | N.D. | 0.7 | 1 |
| 10903 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | 1 |
| 10903 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | 1 |
| 10903 | Trichloroethene | 79-01-6 | N.D. | 1 | 1 |
| 10903 | Vinyl Chloride | 75-01-4 | N.D. | 1 | 1 |
| 10903 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10903 | 8260 VOCs (Water) | SW-846 8260B | 1 | L100741AA | 03/15/2010 05:00 | Kathrine K Muramatsu | 1 |

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# Analysis Report



**Sample Description: TB030910 Water**
**Bartlett Tree**

**LLI Sample # WW 5923794**
**LLI Group # 1185473**
**NY**

**Project Name: Bartlett Tree**

Collected: 03/09/2010

Submitted: 03/10/2010 09:00
Reported: 04/09/2010 at 09:52
Discard: 04/24/2010

Account Number: 09286

Brown & Caldwell
234 Hudson Ave.
Albany NY 12210

B10TB SDG#: BTR08-19TB

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | L100741AA | 03/15/2010 05:00 | Kathrine K Muramatsu | 1 |

## Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: A100751AA | Sample number(s): 5923774-5923785,5923787-5923791 | | | | | | | |
| Acetone | N.D. | 7. | ug/kg | 69 | | 32-209 | | |
| Benzene | N.D. | 0.5 | ug/kg | 101 | | 80-120 | | |
| Bromodichloromethane | N.D. | 1. | ug/kg | 101 | | 78-120 | | |
| Bromoform | N.D. | 1. | ug/kg | 98 | | 70-120 | | |
| Bromomethane | N.D. | 2. | ug/kg | 89 | | 32-162 | | |
| 2-Butanone | N.D. | 4. | ug/kg | 68 | | 53-160 | | |
| Carbon Disulfide | N.D. | 1. | ug/kg | 106 | | 67-122 | | |
| Carbon Tetrachloride | N.D. | 1. | ug/kg | 106 | | 69-122 | | |
| Chlorobenzene | N.D. | 1. | ug/kg | 104 | | 80-120 | | |
| Chloroethane | N.D. | 2. | ug/kg | 90 | | 37-154 | | |
| Chloroform | N.D. | 1. | ug/kg | 102 | | 80-120 | | |
| Chloromethane | N.D. | 2. | ug/kg | 83 | | 54-132 | | |
| Dibromochloromethane | N.D. | 1. | ug/kg | 100 | | 77-120 | | |
| 1,1-Dichloroethane | N.D. | 1. | ug/kg | 99 | | 80-120 | | |
| 1,2-Dichloroethane | N.D. | 1. | ug/kg | 97 | | 71-129 | | |
| 1,1-Dichloroethene | N.D. | 1. | ug/kg | 105 | | 73-123 | | |
| cis-1,2-Dichloroethene | N.D. | 1. | ug/kg | 105 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 1. | ug/kg | 108 | | 79-120 | | |
| 1,2-Dichloropropane | N.D. | 1. | ug/kg | 98 | | 80-120 | | |
| cis-1,3-Dichloropropene | N.D. | 1. | ug/kg | 98 | | 80-120 | | |
| trans-1,3-Dichloropropene | N.D. | 1. | ug/kg | 98 | | 77-120 | | |
| Ethylbenzene | N.D. | 1. | ug/kg | 103 | | 80-120 | | |
| 2-Hexanone | N.D. | 3. | ug/kg | 61 | | 45-155 | | |
| 4-Methyl-2-pentanone | N.D. | 3. | ug/kg | 68 | | 61-134 | | |
| Methylene Chloride | N.D. | 2. | ug/kg | 107 | | 76-124 | | |
| Styrene | N.D. | 1. | ug/kg | 105 | | 76-120 | | |
| 1,1,2,2-Tetrachloroethane | N.D. | 1. | ug/kg | 90 | | 71-123 | | |
| Tetrachloroethene | N.D. | 1. | ug/kg | 99 | | 77-120 | | |
| Toluene | N.D. | 1. | ug/kg | 103 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 1. | ug/kg | 105 | | 71-125 | | |
| 1,1,2-Trichloroethane | N.D. | 1. | ug/kg | 102 | | 80-120 | | |
| Trichloroethene | N.D. | 1. | ug/kg | 104 | | 80-120 | | |
| Vinyl Chloride | N.D. | 1. | ug/kg | 88 | | 53-120 | | |
| Xylene (Total) | N.D. | 1. | ug/kg | 103 | | 80-120 | | |
| Batch number: A100771AA | Sample number(s): 5923792 | | | | | | | |
| Acetone | N.D. | 7. | ug/kg | 88 | 88 | 32-209 | 0 | 30 |
| Benzene | N.D. | 0.5 | ug/kg | 100 | 101 | 80-120 | 1 | 30 |
| Bromodichloromethane | N.D. | 1. | ug/kg | 104 | 105 | 78-120 | 1 | 30 |
| Bromoform | N.D. | 1. | ug/kg | 98 | 101 | 70-120 | 2 | 30 |
| Bromomethane | N.D. | 2. | ug/kg | 89 | 88 | 32-162 | 0 | 30 |
| 2-Butanone | N.D. | 4. | ug/kg | 80 | 84 | 53-160 | 6 | 30 |
| Carbon Disulfide | N.D. | 1. | ug/kg | 98 | 100 | 67-122 | 3 | 30 |
| Carbon Tetrachloride | N.D. | 1. | ug/kg | 104 | 105 | 69-122 | 1 | 30 |
| Chlorobenzene | N.D. | 1. | ug/kg | 101 | 103 | 80-120 | 2 | 30 |
| Chloroethane | N.D. | 2. | ug/kg | 88 | 87 | 37-154 | 2 | 30 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Chloroform | N.D. | 1. | ug/kg | 103 | 105 | 80-120 | 1 | 30 |
| Chloromethane | N.D. | 2. | ug/kg | 81 | 81 | 54-132 | 0 | 30 |
| Dibromochloromethane | N.D. | 1. | ug/kg | 99 | 101 | 77-120 | 2 | 30 |
| 1,1-Dichloroethane | N.D. | 1. | ug/kg | 95 | 98 | 80-120 | 3 | 30 |
| 1,2-Dichloroethane | N.D. | 1. | ug/kg | 103 | 103 | 71-129 | 1 | 30 |
| 1,1-Dichloroethene | N.D. | 1. | ug/kg | 100 | 102 | 73-123 | 2 | 30 |
| cis-1,2-Dichloroethene | N.D. | 1. | ug/kg | 101 | 104 | 80-120 | 3 | 30 |
| trans-1,2-Dichloroethene | N.D. | 1. | ug/kg | 103 | 105 | 79-120 | 2 | 30 |
| 1,2-Dichloropropane | N.D. | 1. | ug/kg | 95 | 99 | 80-120 | 4 | 30 |
| cis-1,3-Dichloropropene | N.D. | 1. | ug/kg | 92 | 94 | 80-120 | 3 | 30 |
| trans-1,3-Dichloropropene | N.D. | 1. | ug/kg | 96 | 98 | 77-120 | 2 | 30 |
| Ethylbenzene | N.D. | 1. | ug/kg | 97 | 100 | 80-120 | 3 | 30 |
| 2-Hexanone | N.D. | 3. | ug/kg | 67 | 76 | 45-155 | 12 | 30 |
| 4-Methyl-2-pentanone | N.D. | 3. | ug/kg | 77 | 82 | 61-134 | 6 | 30 |
| Methylene Chloride | N.D. | 2. | ug/kg | 106 | 109 | 76-124 | 3 | 30 |
| Styrene | N.D. | 1. | ug/kg | 100 | 102 | 76-120 | 2 | 30 |
| 1,1,2,2-Tetrachloroethane | N.D. | 1. | ug/kg | 95 | 97 | 71-123 | 2 | 30 |
| Tetrachloroethene | N.D. | 1. | ug/kg | 99 | 104 | 77-120 | 5 | 30 |
| Toluene | N.D. | 1. | ug/kg | 99 | 102 | 80-120 | 4 | 30 |
| 1,1,1-Trichloroethane | N.D. | 1. | ug/kg | 106 | 107 | 71-125 | 1 | 30 |
| 1,1,2-Trichloroethane | N.D. | 1. | ug/kg | 104 | 108 | 80-120 | 4 | 30 |
| Trichloroethene | N.D. | 1. | ug/kg | 103 | 106 | 80-120 | 3 | 30 |
| Vinyl Chloride | N.D. | 1. | ug/kg | 82 | 83 | 53-120 | 1 | 30 |
| Xylene (Total) | N.D. | 1. | ug/kg | 98 | 101 | 80-120 | 3 | 30 |
| Batch number: L100741AA | Sample number(s): 5923793-5923794 | | | | | | | |
| Acetone | N.D. | 6. | ug/l | 95 | 90 | 49-234 | 5 | 30 |
| Benzene | N.D. | 0.5 | ug/l | 88 | 86 | 79-120 | 2 | 30 |
| Bromodichloromethane | N.D. | 1. | ug/l | 92 | 90 | 80-120 | 2 | 30 |
| Bromoform | N.D. | 1. | ug/l | 87 | 86 | 61-120 | 2 | 30 |
| Bromomethane | N.D. | 1. | ug/l | 86 | 81 | 44-120 | 7 | 30 |
| 2-Butanone | N.D. | 3. | ug/l | 86 | 86 | 66-151 | 0 | 30 |
| Carbon Disulfide | N.D. | 1. | ug/l | 79 | 78 | 62-120 | 1 | 30 |
| Carbon Tetrachloride | N.D. | 1. | ug/l | 88 | 87 | 75-123 | 0 | 30 |
| Chlorobenzene | N.D. | 0.8 | ug/l | 92 | 92 | 80-120 | 0 | 30 |
| Chloroethane | N.D. | 1. | ug/l | 83 | 78 | 49-129 | 5 | 30 |
| Chloroform | N.D. | 0.8 | ug/l | 88 | 87 | 77-122 | 1 | 30 |
| Chloromethane | N.D. | 1. | ug/l | 92 | 91 | 60-129 | 1 | 30 |
| Dibromochloromethane | N.D. | 1. | ug/l | 89 | 88 | 80-120 | 0 | 30 |
| 1,1-Dichloroethane | N.D. | 1. | ug/l | 91 | 89 | 79-120 | 1 | 30 |
| 1,2-Dichloroethane | N.D. | 1. | ug/l | 88 | 87 | 70-130 | 2 | 30 |
| 1,1-Dichloroethene | N.D. | 0.8 | ug/l | 90 | 90 | 74-123 | 0 | 30 |
| cis-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 90 | 89 | 80-120 | 1 | 30 |
| trans-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 89 | 88 | 80-120 | 1 | 30 |
| 1,2-Dichloropropane | N.D. | 1. | ug/l | 93 | 92 | 78-120 | 1 | 30 |
| cis-1,3-Dichloropropene | N.D. | 1. | ug/l | 87 | 87 | 80-120 | 0 | 30 |
| trans-1,3-Dichloropropene | N.D. | 1. | ug/l | 90 | 89 | 79-120 | 2 | 30 |
| Ethylbenzene | N.D. | 0.8 | ug/l | 92 | 91 | 79-120 | 1 | 30 |
| 2-Hexanone | N.D. | 3. | ug/l | 72 | 72 | 65-136 | 1 | 30 |
| 4-Methyl-2-pentanone | N.D. | 3. | ug/l | 81 | 81 | 70-121 | 0 | 30 |
| Methylene Chloride | N.D. | 2. | ug/l | 89 | 89 | 80-120 | 1 | 30 |
| Styrene | N.D. | 1. | ug/l | 97 | 95 | 80-120 | 1 | 30 |
| 1,1,2,2-Tetrachloroethane | N.D. | 1. | ug/l | 95 | 94 | 71-120 | 1 | 30 |
| Tetrachloroethene | N.D. | 0.8 | ug/l | 94 | 92 | 80-121 | 2 | 30 |
| Toluene | N.D. | 0.7 | ug/l | 90 | 90 | 79-120 | 1 | 30 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 0.8 | ug/l | 88 | 88 | 75-127 | 0 | 30 |
| 1,1,2-Trichloroethane | N.D. | 0.8 | ug/l | 94 | 93 | 80-120 | 1 | 30 |
| Trichloroethene | N.D. | 1. | ug/l | 91 | 90 | 80-120 | 1 | 30 |
| Vinyl Chloride | N.D. | 1. | ug/l | 106 | 104 | 59-120 | 2 | 30 |
| Xylene (Total) | N.D. | 0.8 | ug/l | 95 | 93 | 80-120 | 2 | 30 |
| Batch number: R100711AA | Sample number(s): 5923786 | | | | | | | |
| Acetone | N.D. | 350. | ug/kg | 80 | 80 | 32-209 | 0 | 30 |
| Benzene | N.D. | 25. | ug/kg | 91 | 88 | 80-120 | 3 | 30 |
| Bromodichloromethane | N.D. | 50. | ug/kg | 93 | 90 | 78-120 | 3 | 30 |
| Bromoform | N.D. | 50. | ug/kg | 86 | 83 | 70-120 | 4 | 30 |
| Bromomethane | N.D. | 100. | ug/kg | 114 | 83 | 32-162 | 31* | 30 |
| 2-Butanone | N.D. | 200. | ug/kg | 85 | 83 | 53-160 | 1 | 30 |
| Carbon Disulfide | N.D. | 50. | ug/kg | 90 | 87 | 67-122 | 4 | 30 |
| Carbon Tetrachloride | N.D. | 50. | ug/kg | 90 | 86 | 69-122 | 4 | 30 |
| Chlorobenzene | N.D. | 50. | ug/kg | 95 | 92 | 80-120 | 2 | 30 |
| Chloroethane | N.D. | 100. | ug/kg | 124 | 83 | 37-154 | 40* | 30 |
| Chloroform | N.D. | 50. | ug/kg | 91 | 88 | 80-120 | 3 | 30 |
| Chloromethane | N.D. | 100. | ug/kg | 82 | 78 | 54-132 | 4 | 30 |
| Dibromochloromethane | N.D. | 50. | ug/kg | 92 | 90 | 77-120 | 3 | 30 |
| 1,1-Dichloroethane | N.D. | 50. | ug/kg | 95 | 91 | 80-120 | 3 | 30 |
| 1,2-Dichloroethane | N.D. | 50. | ug/kg | 93 | 91 | 71-129 | 2 | 30 |
| 1,1-Dichloroethene | N.D. | 50. | ug/kg | 99 | 93 | 73-123 | 6 | 30 |
| cis-1,2-Dichloroethene | N.D. | 50. | ug/kg | 94 | 91 | 80-120 | 3 | 30 |
| trans-1,2-Dichloroethene | N.D. | 50. | ug/kg | 96 | 92 | 79-120 | 4 | 30 |
| 1,2-Dichloropropane | N.D. | 50. | ug/kg | 94 | 91 | 80-120 | 3 | 30 |
| cis-1,3-Dichloropropene | N.D. | 50. | ug/kg | 90 | 87 | 80-120 | 3 | 30 |
| trans-1,3-Dichloropropene | N.D. | 50. | ug/kg | 94 | 90 | 77-120 | 5 | 30 |
| Ethylbenzene | N.D. | 50. | ug/kg | 92 | 89 | 80-120 | 3 | 30 |
| 2-Hexanone | N.D. | 150. | ug/kg | 91 | 86 | 45-155 | 5 | 30 |
| 4-Methyl-2-pentanone | N.D. | 150. | ug/kg | 87 | 83 | 61-134 | 5 | 30 |
| Methylene Chloride | N.D. | 100. | ug/kg | 97 | 93 | 76-124 | 4 | 30 |
| Styrene | N.D. | 50. | ug/kg | 93 | 90 | 76-120 | 3 | 30 |
| 1,1,2,2-Tetrachloroethane | N.D. | 50. | ug/kg | 93 | 90 | 71-123 | 4 | 30 |
| Tetrachloroethene | N.D. | 50. | ug/kg | 93 | 89 | 77-120 | 4 | 30 |
| Toluene | N.D. | 50. | ug/kg | 94 | 91 | 80-120 | 3 | 30 |
| 1,1,1-Trichloroethane | N.D. | 50. | ug/kg | 95 | 90 | 71-125 | 5 | 30 |
| 1,1,2-Trichloroethane | N.D. | 50. | ug/kg | 96 | 94 | 80-120 | 2 | 30 |
| Trichloroethene | N.D. | 50. | ug/kg | 93 | 89 | 80-120 | 4 | 30 |
| Vinyl Chloride | N.D. | 50. | ug/kg | 86 | 84 | 53-120 | 2 | 30 |
| Xylene (Total) | N.D. | 50. | ug/kg | 93 | 89 | 80-120 | 4 | 30 |
| Batch number: R100761AA | Sample number(s): 5923787 | | | | | | | |
| Xylene (Total) | N.D. | 50. | ug/kg | 95 | 98 | 80-120 | 3 | 30 |
| Batch number: 100740016A | Sample number(s): 5923793 | | | | | | | |
| 2,4-D | N.D. | 0.16 | ug/l | 92 | | 45-128 | | |
| Dalapon | N.D. | 0.25 | ug/l | 78 | | 23-95 | | |
| 2,4-DB | N.D. | 0.30 | ug/l | 96 | | 41-138 | | |
| Dicamba | N.D. | 0.080 | ug/l | 96 | | 51-144 | | |
| Dinoseb | N.D. | 0.10 | ug/l | 40 | | 23-93 | | |
| 2,4-DP (Dichlorprop) | N.D. | 0.16 | ug/l | 124 | | 72-145 | | |
| MCPA | N.D. | 300. | ug/l | 96 | | 69-129 | | |
| MCPP | N.D. | 50. | ug/l | 100 | | 66-132 | | |
| 2,4,5-T | N.D. | 0.015 | ug/l | 96 | | 44-120 | | |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-TP | N.D. | 0.010 | ug/l | 100 | | 56-135 | | |
| Batch number: 100750014A | Sample number(s): 5923774-5923792 | | | | | | | |
| 2,4-D | N.D. | 12. | ug/kg | 85 | | 40-140 | | |
| Dalapon | N.D. | 30. | ug/kg | 49 | | 24-89 | | |
| 2,4-DB | N.D. | 6.2 | ug/kg | 89 | | 34-138 | | |
| Dicamba | N.D. | 4.0 | ug/kg | 78 | | 20-164 | | |
| Dinoseb | N.D. | 8.0 | ug/kg | 8* | | 10-36 | | |
| 2,4-DP (Dichloroprop) | N.D. | 8.0 | ug/kg | 108 | | 60-141 | | |
| MCPA | N.D. | 760. | ug/kg | 80 | | 34-113 | | |
| MCPP (Mecoprop) | N.D. | 750. | ug/kg | 77 | | 29-154 | | |
| 2,4,5-T | N.D. | 0.82 | ug/kg | 84 | | 33-145 | | |
| 2,4,5-TP | N.D. | 0.75 | ug/kg | 82 | | 48-138 | | |
| Batch number: 100740007A | Sample number(s): 5923774-5923792 | | | | | | | |
| Bolstar | N.D. | 22. | ug/kg | 91 | | 62-124 | | |
| Coumaphos | N.D. | 22. | ug/kg | 97 | | 42-144 | | |
| Demeton-O | N.D. | 22. | ug/kg | 74 | | 42-114 | | |
| Demeton-S | N.D. | 22. | ug/kg | 115 | | 63-151 | | |
| Diazinon | N.D. | 22. | ug/kg | 102 | | 66-118 | | |
| Dichlorvos | N.D. | 22. | ug/kg | 116 | | 47-157 | | |
| Disulfoton | N.D. | 22. | ug/kg | 93 | | 52-123 | | |
| Dursban (Chlorpyrifos) | N.D. | 22. | ug/kg | 94 | | 60-124 | | |
| EPN | N.D. | 22. | ug/kg | 105 | | 45-122 | | |
| Ethion | N.D. | 22. | ug/kg | 91 | | 59-127 | | |
| Ethoprop | N.D. | 22. | ug/kg | 97 | | 64-118 | | |
| Ethyl Parathion | N.D. | 22. | ug/kg | 101 | | 61-127 | | |
| Famphur | N.D. | 22. | ug/kg | 91 | | 40-133 | | |
| Fensulfothion | N.D. | 50. | ug/kg | 111 | | 17-159 | | |
| Fenthion | N.D. | 22. | ug/kg | 96 | | 56-124 | | |
| Guthion (Azinphos-methyl) | N.D. | 25. | ug/kg | 121 | | 17-162 | | |
| Malathion | N.D. | 22. | ug/kg | 90 | | 57-126 | | |
| Merphos | N.D. | 22. | ug/kg | 73 | | 41-91 | | |
| Methyl Parathion | N.D. | 22. | ug/kg | 100 | | 52-134 | | |
| Mevinphos | N.D. | 22. | ug/kg | 116 | | 55-121 | | |
| Naled | N.D. | 43. | ug/kg | 94 | | 52-128 | | |
| Phorate | N.D. | 22. | ug/kg | 96 | | 64-122 | | |
| Ronnel | N.D. | 22. | ug/kg | 92 | | 61-124 | | |
| Stirophos | N.D. | 22. | ug/kg | 120 | | 44-136 | | |
| Tokuthion | N.D. | 22. | ug/kg | 93 | | 65-126 | | |
| Trichloronate | N.D. | 22. | ug/kg | 86 | | 57-117 | | |
| Trithion | N.D. | 22. | ug/kg | 99 | | 59-128 | | |
| Batch number: 100740020A | Sample number(s): 5923793 | | | | | | | |
| Bolstar | N.D. | 0.50 | ug/l | 84 | 85 | 63-140 | 1 | 20 |
| Coumaphos | N.D. | 1.0 | ug/l | 93 | 95 | 58-127 | 3 | 20 |
| Demeton-O | N.D. | 0.50 | ug/l | 70 | 70 | 41-111 | 0 | 20 |
| Demeton-S | N.D. | 1.2 | ug/l | 100 | 100 | 63-139 | 0 | 20 |
| Diazinon | N.D. | 2.0 | ug/l | 93 | 93 | 50-123 | 0 | 20 |
| Dichlorvos | N.D. | 1.0 | ug/l | 103 | 106 | 56-124 | 4 | 20 |
| Disulfoton | N.D. | 0.52 | ug/l | 93 | 93 | 62-131 | 0 | 20 |
| Dursban (Chlorpyrifos) | N.D. | 1.0 | ug/l | 83 | 85 | 62-136 | 3 | 20 |
| EPN | N.D. | 0.50 | ug/l | 97 | 100 | 42-117 | 3 | 20 |
| Ethion | N.D. | 0.50 | ug/l | 84 | 87 | 61-140 | 3 | 20 |
| Ethoprop | N.D. | 1.2 | ug/l | 98 | 100 | 52-131 | 3 | 20 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Ethyl Parathion | N.D. | 0.50 | ug/l | 98 | 100 | 64-129 | 2 | 20 |
| Famphur | N.D. | 1.0 | ug/l | 86 | 93 | 20-130 | 7 | 20 |
| Fensulfothion | N.D. | 3.0 | ug/l | 66 | 74 | 10-146 | 11 | 20 |
| Fenthion | N.D. | 0.50 | ug/l | 94 | 95 | 57-135 | 1 | 20 |
| Guthion (Azinphos-methyl) | N.D. | 2.0 | ug/l | 111 | 120 | 37-140 | 8 | 20 |
| Malathion | N.D. | 1.0 | ug/l | 89 | 89 | 62-120 | 0 | 20 |
| Merphos | N.D. | 0.50 | ug/l | 79 | 86 | 32-142 | 9 | 20 |
| Methyl Parathion | N.D. | 0.50 | ug/l | 100 | 106 | 57-143 | 6 | 20 |
| Mevinphos | N.D. | 1.5 | ug/l | 99 | 109 | 14-120 | 10 | 20 |
| Naled | N.D. | 2.0 | ug/l | 93 | 94 | 62-120 | 1 | 20 |
| Phorate | N.D. | 0.50 | ug/l | 95 | 96 | 67-129 | 1 | 20 |
| Ronnel | N.D. | 0.50 | ug/l | 89 | 91 | 65-132 | 3 | 20 |
| Stirophos | N.D. | 0.80 | ug/l | 116 | 118 | 56-131 | 1 | 20 |
| Tokuthion | N.D. | 0.50 | ug/l | 85 | 90 | 69-138 | 6 | 20 |
| Trichloronate | N.D. | 0.50 | ug/l | 78 | 79 | 66-137 | 2 | 20 |
| Trithion | N.D. | 0.50 | ug/l | 88 | 93 | 58-135 | 5 | 20 |
| Batch number: 100740017A | Sample number(s): 5923793 | | | | | | | |
| Aldrin | N.D. | 0.0030 | ug/l | 118 | 118 | 54-152 | 0 | 20 |
| Alpha BHC | N.D. | 0.0027 | ug/l | 102 | 112 | 72-141 | 10 | 20 |
| Beta BHC | N.D. | 0.0038 | ug/l | 116 | 116 | 73-147 | 0 | 20 |
| Gamma BHC - Lindane | N.D. | 0.0046 | ug/l | 111 | 111 | 68-128 | 0 | 20 |
| Alpha Chlordane | N.D. | 0.0047 | ug/l | 116 | 116 | 78-144 | 0 | 30 |
| Gamma Chlordane | N.D. | 0.0042 | ug/l | 104 | 115 | 74-143 | 10 | 30 |
| p,p-DDD | N.D. | 0.012 | ug/l | 100 | 100 | 71-139 | 0 | 20 |
| p,p-DDE | N.D. | 0.0050 | ug/l | 111 | 116 | 66-130 | 5 | 20 |
| p,p-DDT | N.D. | 0.012 | ug/l | 110 | 110 | 53-126 | 0 | 20 |
| Delta BHC | 0.0083 J | 0.0030 | ug/l | 126 | 126 | 76-148 | 0 | 20 |
| Dieldrin | N.D. | 0.0040 | ug/l | 105 | 105 | 76-132 | 0 | 20 |
| Endosulfan I | N.D. | 0.0030 | ug/l | 111 | 111 | 68-128 | 0 | 20 |
| Endosulfan II | N.D. | 0.0040 | ug/l | 116 | 121 | 70-128 | 4 | 20 |
| Endosulfan Sulfate | N.D. | 0.0056 | ug/l | 126 | 132 | 80-140 | 4 | 20 |
| Endrin | N.D. | 0.0040 | ug/l | 105 | 105 | 60-134 | 0 | 20 |
| Endrin Aldehyde | N.D. | 0.020 | ug/l | 111 | 111 | 76-139 | 0 | 20 |
| Endrin Ketone | N.D. | 0.017 | ug/l | 116 | 121 | 75-143 | 4 | 30 |
| Heptachlor | N.D. | 0.0040 | ug/l | 112 | 112 | 57-126 | 0 | 20 |
| Heptachlor Epoxide | N.D. | 0.0037 | ug/l | 118 | 118 | 73-156 | 0 | 20 |
| Methoxychlor | N.D. | 0.030 | ug/l | 120 | 130 | 52-133 | 8 | 20 |
| Toxaphene | N.D. | 1.0 | ug/l | | | | | |
| Batch number: 100790004A | Sample number(s): 5923774-5923792 | | | | | | | |
| Aldrin | N.D. | 0.17 | ug/kg | 99 | | 38-159 | | |
| Alpha BHC | N.D. | 0.17 | ug/kg | 89 | | 38-130 | | |
| Beta BHC | N.D. | 0.96 | ug/kg | 97 | | 56-134 | | |
| Gamma BHC - Lindane | N.D. | 0.17 | ug/kg | 93 | | 46-127 | | |
| Alpha Chlordane | N.D. | 0.17 | ug/kg | 100 | | 57-132 | | |
| Gamma Chlordane | N.D. | 0.17 | ug/kg | 99 | | 55-131 | | |
| p,p-DDD | N.D. | 0.33 | ug/kg | 118 | | 60-137 | | |
| p,p-DDE | N.D. | 0.33 | ug/kg | 116 | | 59-141 | | |
| p,p-DDT | 1.7 J | 0.33 | ug/kg | 266* | | 54-130 | | |
| Delta BHC | N.D. | 0.45 | ug/kg | 110 | | 55-144 | | |
| Dieldrin | N.D. | 0.33 | ug/kg | 105 | | 65-129 | | |
| Endosulfan I | N.D. | 0.22 | ug/kg | 92 | | 45-123 | | |
| Endosulfan II | N.D. | 0.33 | ug/kg | 101 | | 63-127 | | |
| Endosulfan Sulfate | N.D. | 0.33 | ug/kg | 80 | | 72-138 | | |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

### Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Endrin | N.D. | 0.33 | ug/kg | 100 | | 62-129 | | |
| Endrin Aldehyde | N.D. | 0.33 | ug/kg | 86 | | 55-132 | | |
| Endrin Ketone | N.D. | 0.60 | ug/kg | 90 | | 69-139 | | |
| Heptachlor | N.D. | 0.17 | ug/kg | 98 | | 43-124 | | |
| Heptachlor Epoxide | N.D. | 0.17 | ug/kg | 104 | | 38-159 | | |
| Methoxychlor | N.D. | 1.7 | ug/kg | 99 | | 59-125 | | |
| Toxaphene | N.D. | 11. | ug/kg | | | | | |
| Batch number: 10070820001B | Sample number(s): 5923774-5923792 | | | | | | | |
| Moisture | | | | 100 | | 99-101 | | |
| Moisture | | | | 100 | | 99-101 | | |
| Moisture Duplicate | | | | 100 | | 99-101 | | |

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: A100751AA | Sample number(s): 5923774-5923785,5923787-5923791 UNSPK: 5923789 | | | | | | | | |
| Acetone | 71 | 74 | 15-210 | 4 | 30 | | | | |
| Benzene | 106 | 101 | 55-143 | 5 | 30 | | | | |
| Bromodichloromethane | 102 | 100 | 53-136 | 2 | 30 | | | | |
| Bromoform | 94 | 92 | 38-124 | 1 | 30 | | | | |
| Bromomethane | 99 | 95 | 42-168 | 3 | 30 | | | | |
| 2-Butanone | 71 | 77 | 37-163 | 8 | 30 | | | | |
| Carbon Disulfide | 111 | 105 | 48-146 | 6 | 30 | | | | |
| Carbon Tetrachloride | 108 | 100 | 45-153 | 7 | 30 | | | | |
| Chlorobenzene | 69 | 62 | 49-135 | 8 | 30 | | | | |
| Chloroethane | 99 | 96 | 39-152 | 3 | 30 | | | | |
| Chloroform | 109 | 104 | 61-142 | 4 | 30 | | | | |
| Chloromethane | 89 | 88 | 51-163 | 1 | 30 | | | | |
| Dibromochloromethane | 101 | 98 | 51-128 | 3 | 30 | | | | |
| 1,1-Dichloroethane | 106 | 102 | 63-142 | 4 | 30 | | | | |
| 1,2-Dichloroethane | 100 | 99 | 53-143 | 2 | 30 | | | | |
| 1,1-Dichloroethene | 117 | 109 | 61-149 | 6 | 30 | | | | |
| cis-1,2-Dichloroethene | 111 | 106 | 60-136 | 5 | 30 | | | | |
| trans-1,2-Dichloroethene | 115 | 109 | 59-142 | 6 | 30 | | | | |
| 1,2-Dichloropropane | 99 | 96 | 62-135 | 3 | 30 | | | | |
| cis-1,3-Dichloropropene | 93 | 90 | 51-131 | 3 | 30 | | | | |
| trans-1,3-Dichloropropene | 100 | 97 | 49-129 | 3 | 30 | | | | |
| Ethylbenzene | -402 (2) | -408 (2) | 44-141 | 7 | 30 | | | | |
| 2-Hexanone | 61 | 70 | 32-160 | 13 | 30 | | | | |
| 4-Methyl-2-pentanone | 67 | 74 | 46-139 | 9 | 30 | | | | |
| Methylene Chloride | 119 | 114 | 47-145 | 4 | 30 | | | | |
| Styrene | 91 | 82 | 35-134 | 10 | 30 | | | | |
| 1,1,2,2-Tetrachloroethane | 115 | 113 | 40-152 | 1 | 30 | | | | |
| Tetrachloroethene | 77 | 74 | 42-149 | 3 | 30 | | | | |
| Toluene | 107 | 98 | 50-146 | 9 | 30 | | | | |
| 1,1,1-Trichloroethane | 109 | 105 | 57-165 | 4 | 30 | | | | |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 109 | 108 | 54-139 | 1 | 30 | | | | |
| Trichloroethene | 103 | 98 | 53-144 | 4 | 30 | | | | |
| Vinyl Chloride | 98 | 94 | 50-154 | 4 | 30 | | | | |
| Xylene (Total) | -994 (2) | -993 (2) | 44-136 | 2 | 30 | | | | |
| Batch number: A100771AA | Sample number(s): 5923792 UNSPK: P928089 | | | | | | | | |
| Acetone | 65 | | 15-210 | | | | | | |
| Benzene | 109 | | 55-143 | | | | | | |
| Bromodichloromethane | 112 | | 53-136 | | | | | | |
| Bromoform | 95 | | 38-124 | | | | | | |
| Bromomethane | 97 | | 42-168 | | | | | | |
| 2-Butanone | 64 | | 37-163 | | | | | | |
| Carbon Disulfide | 110 | | 48-146 | | | | | | |
| Carbon Tetrachloride | 121 | | 45-153 | | | | | | |
| Chlorobenzene | 111 | | 49-135 | | | | | | |
| Chloroethane | 94 | | 39-152 | | | | | | |
| Chloroform | 113 | | 61-142 | | | | | | |
| Chloromethane | 90 | | 51-163 | | | | | | |
| Dibromochloromethane | 103 | | 51-128 | | | | | | |
| 1,1-Dichloroethane | 104 | | 63-142 | | | | | | |
| 1,2-Dichloroethane | 105 | | 53-143 | | | | | | |
| 1,1-Dichloroethene | 115 | | 61-149 | | | | | | |
| cis-1,2-Dichloroethene | 112 | | 60-136 | | | | | | |
| trans-1,2-Dichloroethene | 116 | | 59-142 | | | | | | |
| 1,2-Dichloropropane | 104 | | 62-135 | | | | | | |
| cis-1,3-Dichloropropene | 95 | | 51-131 | | | | | | |
| trans-1,3-Dichloropropene | 97 | | 49-129 | | | | | | |
| Ethylbenzene | 110 | | 44-141 | | | | | | |
| 2-Hexanone | 54 | | 32-160 | | | | | | |
| 4-Methyl-2-pentanone | 64 | | 46-139 | | | | | | |
| Methylene Chloride | 97 | | 47-145 | | | | | | |
| Styrene | 110 | | 35-134 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 95 | | 40-152 | | | | | | |
| Tetrachloroethene | 108 | | 42-149 | | | | | | |
| Toluene | 111 | | 50-146 | | | | | | |
| 1,1,1-Trichloroethane | 117 | | 57-165 | | | | | | |
| 1,1,2-Trichloroethane | 105 | | 54-139 | | | | | | |
| Trichloroethene | 115 | | 53-144 | | | | | | |
| Vinyl Chloride | 100 | | 50-154 | | | | | | |
| Xylene (Total) | 108 | | 44-136 | | | | | | |
| Batch number: L100741AA | Sample number(s): 5923793-5923794 UNSPK: P924845 | | | | | | | | |
| Acetone | 83 | | 52-139 | | | | | | |
| Benzene | 92 | | 80-126 | | | | | | |
| Bromodichloromethane | 91 | | 78-125 | | | | | | |
| Bromoform | 83 | | 60-121 | | | | | | |
| Bromomethane | 94 | | 38-149 | | | | | | |
| 2-Butanone | 83 | | 57-138 | | | | | | |
| Carbon Disulfide | 73 | | 67-135 | | | | | | |
| Carbon Tetrachloride | 91 | | 81-138 | | | | | | |
| Chlorobenzene | 93 | | 87-124 | | | | | | |
| Chloroethane | 92 | | 51-145 | | | | | | |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 90 | | 81-134 | | | | | | |
| Chloromethane | 103 | | 67-154 | | | | | | |
| Dibromochloromethane | 86 | | 74-116 | | | | | | |
| 1,1-Dichloroethane | 94 | | 84-129 | | | | | | |
| 1,2-Dichloroethane | 89 | | 66-141 | | | | | | |
| 1,1-Dichloroethene | 95 | | 85-142 | | | | | | |
| cis-1,2-Dichloroethene | 92 | | 85-125 | | | | | | |
| trans-1,2-Dichloroethene | 92 | | 87-126 | | | | | | |
| 1,2-Dichloropropane | 86 | | 83-124 | | | | | | |
| cis-1,3-Dichloropropene | 81 | | 75-125 | | | | | | |
| trans-1,3-Dichloropropene | 85 | | 74-119 | | | | | | |
| Ethylbenzene | 93 | | 71-134 | | | | | | |
| 2-Hexanone | 71 | | 55-127 | | | | | | |
| 4-Methyl-2-pentanone | 80 | | 63-123 | | | | | | |
| Methylene Chloride | 88 | | 79-120 | | | | | | |
| Styrene | 97 | | 60-140 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 97 | | 73-119 | | | | | | |
| Tetrachloroethene | 98 | | 80-128 | | | | | | |
| Toluene | 93 | | 80-125 | | | | | | |
| 1,1,1-Trichloroethane | 92 | | 80-143 | | | | | | |
| 1,1,2-Trichloroethane | 92 | | 77-124 | | | | | | |
| Trichloroethene | 94 | | 88-133 | | | | | | |
| Vinyl Chloride | 119 | | 66-133 | | | | | | |
| Xylene (Total) | 95 | | 79-125 | | | | | | |
| | | | | | | | | | |
| Batch number: 100740016A | Sample number(s): 5923793 UNSPK: P926179 | | | | | | | | |
| 2,4-D | 100 | 88 | 13-170 | 13 | 30 | | | | |
| Dalapon | 75 | 67 | 33-120 | 10 | 30 | | | | |
| 2,4-DB | 100 | 88 | 21-174 | 13 | 30 | | | | |
| Dicamba | 100 | 92 | 26-207 | 9 | 30 | | | | |
| Dinoseb | 60 | 55 | 13-149 | 9 | 30 | | | | |
| 2,4-DP (Dichlorprop) | 133 | 121 | 73-158 | 10 | 30 | | | | |
| MCPA | 96 | 104 | 74-136 | 8 | 30 | | | | |
| MCPP | 96 | 88 | 10-194 | 9 | 30 | | | | |
| 2,4,5-T | 100 | 92 | 45-172 | 9 | 30 | | | | |
| 2,4,5-TP | 104 | 96 | 57-151 | 8 | 30 | | | | |
| | | | | | | | | | |
| Batch number: 100750014A | Sample number(s): 5923774-5923792 UNSPK: 5923789 | | | | | | | | |
| 2,4-D | 87 | 90 | 28-161 | 3 | 35 | | | | |
| Dalapon | 60 | 30 | 12-86 | 47 | 50 | | | | |
| 2,4-DB | 85 | 90 | 20-170 | 6 | 50 | | | | |
| Dicamba | 117 | 106 | 33-120 | 10 | 50 | | | | |
| Dinoseb | 14 | 16 | 1-44 | 11 | 35 | | | | |
| 2,4-DP (Dichloroprop) | 118 | 117 | 55-141 | 0 | 50 | | | | |
| MCPA | 98 | 99 | 31-184 | 1 | 50 | | | | |
| MCPP (Mecoprop) | 95 | 71 | 16-174 | 30 | 50 | | | | |
| 2,4,5-T | 43 | 38 | 25-132 | 12 | 35 | | | | |
| 2,4,5-TP | 83 | 79 | 10-183 | 4 | 35 | | | | |
| | | | | | | | | | |
| Batch number: 100740007A | Sample number(s): 5923774-5923792 UNSPK: 5923789 | | | | | | | | |
| Bolstar | 70 | 72 | 65-122 | 2 | 35 | | | | |
| Coumaphos | 134 | 138 | 65-151 | 3 | 35 | | | | |
| Demeton-O | 74 | 72 | 18-151 | 4 | 35 | | | | |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Demeton-S | 80 | 83 | 65-145 | 3 | 35 | | | | |
| Diazinon | 77 | 79 | 60-127 | 3 | 35 | | | | |
| Dichlorvos | 112 | 113 | 62-129 | 0 | 35 | | | | |
| Disulfoton | 77 | 77 | 39-129 | 0 | 35 | | | | |
| Dursban (Chlorpyrifos) | 93 | 93 | 64-114 | 0 | 35 | | | | |
| EPN | 151 | 155 | 39-158 | 3 | 35 | | | | |
| Ethion | 0* | 0* | 65-123 | 0 | 35 | | | | |
| Ethoprop | 80 | 81 | 63-112 | 1 | 35 | | | | |
| Ethyl Parathion | 116 | 119 | 52-151 | 3 | 35 | | | | |
| Famphur | 132 | 134 | 19-179 | 2 | 35 | | | | |
| Fensulfothion | 0* | 0* | 36-181 | 0 | 35 | | | | |
| Fenthion | 89 | 91 | 61-116 | 2 | 35 | | | | |
| Guthion (Azinphos-methyl) | 286* | 300* | 25-218 | 5 | 35 | | | | |
| Malathion | 85 | 88 | 69-112 | 3 | 35 | | | | |
| Merphos | 0* | 0* | 10-107 | 0 | 35 | | | | |
| Methyl Parathion | 144 | 146 | 37-171 | 1 | 35 | | | | |
| Mevinphos | 89 | 88 | 58-121 | 2 | 35 | | | | |
| Naled | 78 | 77 | 56-114 | 1 | 35 | | | | |
| Phorate | 72 | 71 | 53-123 | 1 | 35 | | | | |
| Ronnel | 95 | 97 | 66-118 | 2 | 35 | | | | |
| Stirophos | 0* | 0* | 48-145 | 0 | 35 | | | | |
| Tokuthion | 0* | 0* | 72-115 | 0 | 35 | | | | |
| Trichloronate | 93 | 97 | 67-107 | 4 | 35 | | | | |
| Trithion | 61* | 60* | 65-131 | 2 | 35 | | | | |
| Batch number: 100790004A | Sample number(s): 5923774-5923792 UNSPK: 5923789 | | | | | | | | |
| Aldrin | 0* | 0* | 13-157 | 0 | 50 | | | | |
| Alpha BHC | 0* | 0* | 10-129 | 0 | 50 | | | | |
| Beta BHC | 0* | 0* | 14-147 | 0 | 50 | | | | |
| Gamma BHC - Lindane | 20438* | 20553* | 10-140 | 1 | 50 | | | | |
| Alpha Chlordane | 116946* | 64041* | 10-162 | 58* | 50 | | | | |
| Gamma Chlordane | 0* | 0* | 18-153 | 0 | 50 | | | | |
| p,p-DDD | 0 (2) | 0 (2) | 16-163 | 0 | 50 | | | | |
| p,p-DDE | 1370389 (2) | 1216371 (2) | 18-161 | 11 | 50 | | | | |
| p,p-DDT | 0 (2) | 0 (2) | 10-176 | 0 | 50 | | | | |
| Delta BHC | 71389* | 68400* | 23-140 | 4 | 50 | | | | |
| Dieldrin | 0 (2) | 0 (2) | 19-154 | 0 | 50 | | | | |
| Endosulfan I | 0* | 0* | 16-137 | 0 | 50 | | | | |
| Endosulfan II | 0* | 0* | 28-154 | 0 | 50 | | | | |
| Endosulfan Sulfate | 0* | 0* | 21-160 | 0 | 50 | | | | |
| Endrin | 0* | 0* | 11-149 | 0 | 50 | | | | |
| Endrin Aldehyde | 0* | 0* | 10-148 | 0 | 35 | | | | |
| Endrin Ketone | 0* | 0* | 22-165 | 0 | 50 | | | | |
| Heptachlor | 21317* | 19324* | 13-126 | 10 | 50 | | | | |
| Heptachlor Epoxide | 0* | 0* | 13-157 | 0 | 50 | | | | |
| Methoxychlor | 0 (2) | 15247 (2) | 32-147 | 200* | 50 | | | | |
| Batch number: 10070820001B | Sample number(s): 5923774-5923792 BKG: 5923789 | | | | | | | | |
| Moisture | | | | | | 6.1 | 6.1 | 0 | 15 |
| Moisture | | | | | | 6.1 | 6.1 | 0 | 15 |
| Moisture Duplicate | | | | | | 6.1 | 6.1 | 0 | 15 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell  Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 VOCs (Soil)
Batch number: A100751AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 5923774 | 92 | 89 | 91 | 76 |
| 5923775 | 91 | 89 | 87 | 82 |
| 5923776 | 90 | 89 | 88 | 82 |
| 5923777 | 90 | 88 | 88 | 82 |
| 5923778 | 90 | 85 | 88 | 82 |
| 5923779 | 91 | 87 | 88 | 82 |
| 5923780 | 91 | 89 | 88 | 82 |
| 5923781 | 91 | 87 | 88 | 82 |
| 5923782 | 90 | 84 | 88 | 81 |
| 5923783 | 91 | 86 | 87 | 80 |
| 5923784 | 92 | 87 | 87 | 82 |
| 5923785 | 107 | 101 | 128* | 53* |
| 5923787 | 92 | 90 | 85 | 85 |
| 5923788 | 94 | 89 | 91 | 79 |
| 5923789 | 95 | 90 | 85 | 83 |
| 5923790 | 90 | 89 | 96 | 81 |
| 5923791 | 90 | 91 | 95 | 82 |
| Blank | 90 | 93 | 88 | 84 |
| LCS | 89 | 87 | 91 | 88 |
| MS | 90 | 89 | 96 | 81 |
| MSD | 90 | 91 | 95 | 82 |
| Limits: | 71-114 | 70-109 | 70-123 | 70-111 |

Analysis Name: 8260 VOCs (Soil)
Batch number: A100771AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 5923792 | 94 | 91 | 86 | 82 |
| Blank | 94 | 90 | 86 | 84 |
| LCS | 91 | 93 | 90 | 90 |
| LCSD | 91 | 91 | 91 | 90 |
| MS | 90 | 85 | 91 | 88 |
| Limits: | 71-114 | 70-109 | 70-123 | 70-111 |

Analysis Name: 8260 VOCs (Water)
Batch number: L100741AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| 5923793 | 98 | 98 | 99 | 96 |
| 5923794 | 98 | 97 | 99 | 93 |
| Blank | 96 | 98 | 99 | 95 |
| LCS | 100 | 99 | 100 | 98 |
| LCSD | 99 | 98 | 100 | 97 |
| MS | 98 | 101 | 100 | 98 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: 8260 VOCs (Soil)
Batch number: R100711AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 5923786 | 76 | 79 | 77 | 79 |
| Blank | 84 | 87 | 85 | 83 |
| LCS | 88 | 92 | 90 | 89 |
| LCSD | 86 | 88 | 88 | 86 |
| Limits: | 71-114 | 70-109 | 70-123 | 70-111 |

Analysis Name: 8260 Master Scan (soil)
Batch number: R100761AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| Blank | 91 | 94 | 87 | 85 |
| LCS | 88 | 93 | 85 | 83 |
| LCSD | 94 | 98 | 91 | 92 |
| Limits: | 71-114 | 70-109 | 70-123 | 70-111 |

Analysis Name: OP Pesticides in Solids
Batch number: 100740007A

| | 2-Nitro-m-xylene |
|---|---|
| 5923774 | 109 |
| 5923775 | 86 |
| 5923776 | 89 |
| 5923777 | 87 |
| 5923778 | 87 |
| 5923779 | 89 |
| 5923780 | 89 |
| 5923781 | 93 |
| 5923782 | 91 |
| 5923783 | 88 |
| 5923784 | 86 |
| 5923785 | 111 |
| 5923786 | 104 |
| 5923787 | 101 |
| 5923788 | 104 |
| 5923789 | 83 |
| 5923790 | 86 |
| 5923791 | 86 |
| 5923792 | 89 |
| Blank | 90 |
| LCS | 87 |
| MS | 86 |
| MSD | 86 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Surrogate Quality Control

Limits: 45-133

Analysis Name: Herbicides in Water
Batch number: 100740016A

| | 2,4-Dichlorophenylacetic acid |
|---|---|
| 5923793 | 102 |
| Blank | 82 |
| LCS | 107 |
| MS | 114 |
| MSD | 112 |
| Limits: | 35-144 |

Analysis Name: TCL Pesticides in Water
Batch number: 100740017A

| | Tetrachloro-m-xylene | Decachlorobiphenyl |
|---|---|---|
| 5923793 | 100 | 34* |
| Blank | 105 | 118 |
| LCS | 113 | 124 |
| LCSD | 114 | 126 |
| Limits: | 41-132 | 40-144 |

Analysis Name: OP Pesticides in Water
Batch number: 100740020A

| | 2-Nitro-m-xylene |
|---|---|
| 5923793 | 90 |
| Blank | 89 |
| LCS | 89 |
| LCSD | 88 |
| Limits: | 45-141 |

Analysis Name: Herbicides in Soils
Batch number: 100750014A

| | 2,4-Dichlorophenylacetic acid |
|---|---|
| 5923774 | 91 |
| 5923775 | 73 |
| 5923776 | 76 |
| 5923777 | 77 |
| 5923778 | 81 |
| 5923779 | 70 |
| 5923780 | 77 |
| 5923781 | 76 |
| 5923782 | 69 |
| 5923783 | 73 |
| 5923784 | 67 |
| 5923785 | 136 |
| 5923786 | 119 |
| 5923787 | 91 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: Brown & Caldwell Group Number: 1185473
Reported: 04/09/10 at 09:52 AM

## Surrogate Quality Control

| | |
|---|---|
| 5923788 | 107 |
| 5923789 | 88 |
| 5923790 | 107 |
| 5923791 | 104 |
| 5923792 | 65 |
| Blank | 76 |
| LCS | 83 |
| MS | 107 |
| MSD | 104 |
| Limits: | 36-156 |

Analysis Name: Pesticides in Soil (microwave)
Batch number: 100790004A

| | Tetrachloro-m-xylene | Decachlorobiphenyl |
|---|---|---|
| 5923774 | 85 | 110 |
| 5923775 | 76 | 85 |
| 5923776 | 86 | 88 |
| 5923777 | 83 | 80 |
| 5923778 | 81 | 84 |
| 5923779 | 90 | 86 |
| 5923780 | 91 | 90 |
| 5923781 | 95 | 97 |
| 5923782 | 88 | 93 |
| 5923783 | 88 | 96 |
| 5923784 | 101 | 102 |
| 5923785 | 76 | 131 |
| 5923786 | 121 | 89 |
| 5923787 | 366* | 377* |
| 5923788 | 0* | 0* |
| 5923789 | 0* | 0* |
| 5923790 | 0* | 0* |
| 5923791 | 0* | 0* |
| 5923792 | 89 | 120 |
| Blank | 90 | 105 |
| LCS | 90 | 108 |
| MS | 0* | 0* |
| MSD | 0* | 0* |
| Limits: | 55-131 | 45-150 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Lancaster Laboratories
# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **Cal** | (diet) calories | **lb.** | pound(s) |
| **meq** | milliequivalents | **kg** | kilogram(s) |
| **g** | gram(s) | **mg** | milligram(s) |
| **ug** | microgram(s) | **l** | liter(s) |
| **ml** | milliliter(s) | **ul** | microliter(s) |
| **m3** | cubic meter(s) | **fib >5 um/ml** | fibers greater than 5 microns in length per ml |

**<** less than – The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

*U.S. EPA data qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quatitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **J** | Estimated value |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike amount not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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