# diversified environmental services, inc.

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July 22, 2002

Mr. Edward McCarty
20 Station Road
Brookfield, Connecticut 06804

RE: July 2002 Quarterly Groundwater Monitoring
20 Station Road, Brookfield, CT
DES Project No. 1275

Dear Mr. McCarty:

Diversified Environmental Services, Inc. (DES) is pleased to submit this letter report detailing the results of the July 2002 quarterly groundwater monitoring event for the 20 Station Road property in Brookfield, Connecticut. The groundwater monitoring is being performed as post remedial groundwater monitoring associated with an approximate 114 ton excavation program that took place on the property in May 2002. The groundwater monitoring is also being performed to satisfy the requirements of Order No. SRD 113, issued on September 20, 1999. This report represents the first sampling event.

The site history and monitoring well installation of MW-1 through MW-7 were documented in a February 2001 subsurface investigation report and the installation of monitoring wells MW-8 through MW-11 were documented in a January 2002 Phase III subsurface investigation report. The soil remediation program was documented in a June 2002 soil excavation report.

The site is located in an area that has been assigned a "GA" groundwater classification by the CTDEP. GA classification groundwaters are described as within the area of influence of private and potential public water supply wells. The water is presumed suitable for direct human consumption without the need for treatment.

**1.0 Groundwater Sample Collection**

Depth to groundwater measurements were recorded at monitoring wells MW-1 through MW-11 on July 10, 2002 prior to purging and sampling activities. A water level probe was lowered into each well until the groundwater surface was encountered. Measurements were recorded relative to the top of the well casing which was previously surveyed to a 100.00 foot reference datum. The piezometric surface elevations were calculated by subtracting the depth to groundwater from the surveyed top of casing elevations. At the time of measurement, the groundwater flow direction at the site was determined to be in a northwesterly direction with northerly and westerly components. The monitoring well locations are shown on Figure 1, included in Attachment A. The groundwater contour map for this sampling event is presented on Figure 2, included in Attachment A. The groundwater elevation data is shown on Table 1 below.

**Table 1**
**July 10, 2002 Groundwater Elevation Data**
**20 Station Road, Brookfield, Connecticut**

| Location | Relative Elevation | Depth to Groundwater | Groundwater Table Elevation |
|---|---|---|---|
| Reference Point | 100.00 | - | - |
| MW-1 | 99.40 | 4.27 | 95.13 |
| MW-2 | 99.88 | 4.86 | 95.02 |
| MW-3 | 98.67 | 3.82 | 94.85 |
| MW-4 | 99.15 | 3.95 | 95.20 |
| MW-5 | 98.47 | 4.25 | 94.22 |
| MW-6 | 97.95 | 3.98 | 93.97 |
| MW-7 | 98.50 | 4.22 | 94.28 |
| MW-8 | 97.33 | 5.16 | 92.17 |
| MW-9 | 98.32 | 4.45 | 93.87 |
| MW-10 | 99.11 | 3.51 | 95.60 |
| MW-11 | 99.47 | 4.66 | 94.81 |

NOTE: Relative Elevation of Wells is to the Top of the Casing
Reference Point is Concrete Pad on Northwest Side of Building

Groundwater samples were collected from wells MW-1, MW-4, MW-6 and MW-8 through MW-11 on July 10, 2002 by DES in accordance with company Standard Operating Procedures and standard industry practices. Using the total depth of the wells and depth to water measurement, the volume of standing water in each well was calculated. Each well was purged of five well volumes with the same dedicated bailer used to collect the groundwater samples to ensure that cross contamination did not occur. Two 40-milliliter VOAs (preserved with hydrochloric acid) were completely filled with groundwater from each monitoring well.

The time, location and sample number were recorded on the sample container with indelible ink and on the accompanying chain of custody form, maintained in a chilled environment and delivered to York Analytical Laboratories, Inc. (York) of Stamford, Connecticut that same day.

## 2.0 Laboratory Analysis

DES submitted all of the groundwater samples from the July 10, 2002 sampling event to York for analysis of volatile organic compounds (VOC) with MTBE by EPA Method 8260. Holding times were observed for the analysis.

The analytical results for the groundwater samples were compared to the Groundwater Protection Criteria (GPC) for "GA" classified groundwater areas, Residential Volatilization Criteria (RVC) and the Surface Water Protection Criteria (SWPC) established in Section 22a-133k-3 of the RSRs.

York reported the results of the analysis on July 18, 2002. All of the wells sampled, with the exception of MW-1, contained concentrations of perchloroethylene (PCE) above laboratory detection limits ranging from 4 micrograms per liter (ug/l) in MW-8 to 30,000 ug/l in MW-11. Five of the wells (MW-4, MW-6, MW-9, MW-10 and MW-11) contained concentrations of PCE above the 5 ug/l GPC, three of the wells (MW-4, MW-10 and MW-11) contained concentrations of PCE above the 88 ug/l SWPC and two of the wells (MW-4 and MW-11) contained concentrations of PCE above the 1500 ug/l RVC.

All of the wells sampled, with the exception of MW-1 and MW-8, contained concentrations of trichloroethylene (TCE) above laboratory detection limits ranging from 23 ug/l in MW-9 to 1,500 ug/l in MW-11. Five of the wells (MW-4, MW-6, MW-9, MW-10 and MW-11) contained concentrations of TCE above the 5 ug/l GPC, two of the wells (MW-4 and MW-11) contained concentrations of TCE above the 88 ug/l SWPC and none of the samples contained concentrations of TCE above the 1500 ug/l RVC.

All of the wells sampled, with the exception of MW-1 and MW-4, contained concentrations of cis 1,2 Dichloroethylene (C 1,2 DCE) above laboratory detection limits ranging from 6 ug/l in MW-8 to 1,800 ug/l in MW-11. Three of the wells (MW-6, MW-10 and MW-11) contained concentrations of C 1,2 DCE above the 70 ug/l GPC for C 1,2 DCE. No RVC or SWPC has been established for C 1,2 DCE.

Vinyl chloride was detected in MW-4 and MW-6 at concentration of 11 ug/l and 3 ug/l, which are above the GPC and RVC, both 2 ug/l, for vinyl chloride. Both of the concentrations detected were below the 15,750 ug/l SWPC for vinyl chloride.

Three other VOCs and MTBE were detected above laboratory detection limits but below applicable standards. The VOCs detected were 1,2,4 Trimethylbenzene, ethylbenzene and xylene. No other analytes were detected in any of the groundwater samples above laboratory detection limits. A tabular summary of the reported compounds for the sampling event is included in Table 2 below. A copy of the laboratory reports are included in Attachment B.

**Table 2**
**Summary Groundwater Analytical Data**
**20 Station Road, Brookfield, Connecticut**

| Parameter | Sample Designation | | | | | | | Standard | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | MW-4 | MW-6 | MW-8 | MW-9 | MW-10 | MW-11 | GPC | RVC | SWPC |
| Tetrachloroethylene | ND | **1700** | **36** | 4 | **26** | **520** | **30000** | **5** | **1500** | **88** |
| Trichloroethylene | ND | **330** | **39** | ND | **23** | **37** | **1500** | **5** | **219** | **2340** |
| c-1,2-Dichloroethylene | ND | ND | **86** | 6 | 68 | **150** | **1800** | **70** | **NE** | **NE** |
| Vinyl Chloride | ND | **11** | **3** | ND | ND | ND | ND | **2** | **2** | **15750** |
| 1,2,4 trimethylbenzene | ND | 60 | ND | ND | ND | ND | ND | **350** | **NE** | **NE** |
| Ethylbenzene | ND | 29 | ND | ND | ND | ND | ND | **700** | **50000** | **580000** |
| Xylene | ND | 91 | ND | ND | ND | ND | ND | **530** | **21300** | **NE** |
| MTBE | ND | 52 | ND | 8 | 4 | 18 | ND | **70** | **50000** | **NE** |

NOTE: All Units in Micrograms Per Liter (ug/l) = Parts Per Billion (ppb)
GPC = Groundwater Protection Criteria
RVC = Residential Volatilization Criteria
SWPC = Surface Water Protection Criteria
Bold = Exceedance
ND = Below Laboratory Detection Limits

## 3.0 Summary, Conclusions and Recommendations

### 3.1 Summary and Conclusions

Seven groundwater monitoring wells, MW-1, MW-4, MW-6 and MW-8 through MW-11, located on-site are being monitored as post remedial groundwater monitoring associated with an approximate 114 ton soil excavation program that took place on the property in May 2002. The groundwater monitoring is also being performed to satisfy the requirements of Order No. SRD 113, issued on September 20, 1999. This report represents the first sampling event.

Groundwater was determined to be 3.82 feet below the ground surface to 5.16 feet below ground surface across the site during the July 10, 2002 sampling event. The groundwater flow direction at the site was determined to be in a northwesterly direction with northerly and westerly components.

Seven groundwater samples were collected from the on-site groundwater monitoring wells (MW-1, MW-4, MW-6 and MW-8 through MW-11) on July 10, 2002 and submitted for analysis of VOCs by EPA Method 8260 on April 5, 2002. All of the wells sampled, with the exception of MW-1, contained concentrations of PCE above laboratory detection limits ranging from 4 ug/l in MW-8 to 30,000 ug/l in MW-11. Five of the wells contained concentrations of PCE above the 5 ug/l GPC, three of the wells contained concentrations of PCE above the 88 ug/l SWPC and two of the samples contained concentrations of PCE above the 1500 ug/l RVC. All of the wells sampled, with the exception of MW-1 and MW-8, contained concentrations of TCE above laboratory detection limits ranging from 23 ug/l in MW-9 to 1,500 ug/l in MW-11. Five of the wells contained concentrations of TCE above the 5 ug/l GPC, two of the wells contained concentrations of TCE above the 88 ug/l SWPC and none of the samples contained concentrations of TCE above the 1500 ug/l RVC. All of the wells sampled, with the exception of MW-1 and MW-4, contained concentrations of C 1,2 DCE above laboratory detection limits ranging from 6 ug/l in MW-8 to 1,800 ug/l in MW-11. Three of the wells contained concentrations of C 1,2 DCE above the 70 ug/l GPC for C 1,2 DCE. No RVC or SWPC has been established for C 1,2 DCE. Vinyl chloride was detected in MW-4 and MW-6 at concentration of 11 ug/l and 3 ug/l, which are above the GPC and RVC, both 2 ug/l, for vinyl chloride. Both of the concentrations detected were below the 15,750 ug/l SWPC for vinyl chloride. Three other VOCs and MTBE were detected above laboratory detection limits but below applicable standards. The VOCs detected were 1,2,4 Trimethylbenzene, ethylbenzene and xylene. No other analytes were detected in any of the groundwater samples above laboratory detection limits. The highest concentrations of VOCs in the groundwater are located downgradient of where the soil excavation was conducted. The concentrations will be monitored for trends during future sampling events.

### 3.2 Recommendations

Based on the Scope of Work performed, DES recommends continuance of the quarterly groundwater monitoring program to determine the effectiveness of soil remediation, to comply with Section 22a-133k-3 of the RSRs and Order No. SRD-113, and to provide information necessary for the final groundwater remediation design. The next sampling event is scheduled for October 2002.

## 4.0 Limitations

The author of this Report, Diversified Environmental Services (DES) of Milldale, Connecticut, hereby gives notice that any statement of opinion contained in this report prepared by DES shall not be construed to create any warranty or representation that the real property on which the investigation was conducted is free of pollution or complies with any or all applicable regulatory or statutory requirements; or that the property is fit for any particular purpose. Unless otherwise indicated in this report, no attempt was made to check on the compliance of present or past owners of the site with Federal, State, or Local laws and regulations. The conclusions presented in this report were based on the services described, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by client. Any person or entity considering the use, acquisition or other involvement or activity concerning the property shall be solely responsible for determining the adequacy of the property for any and

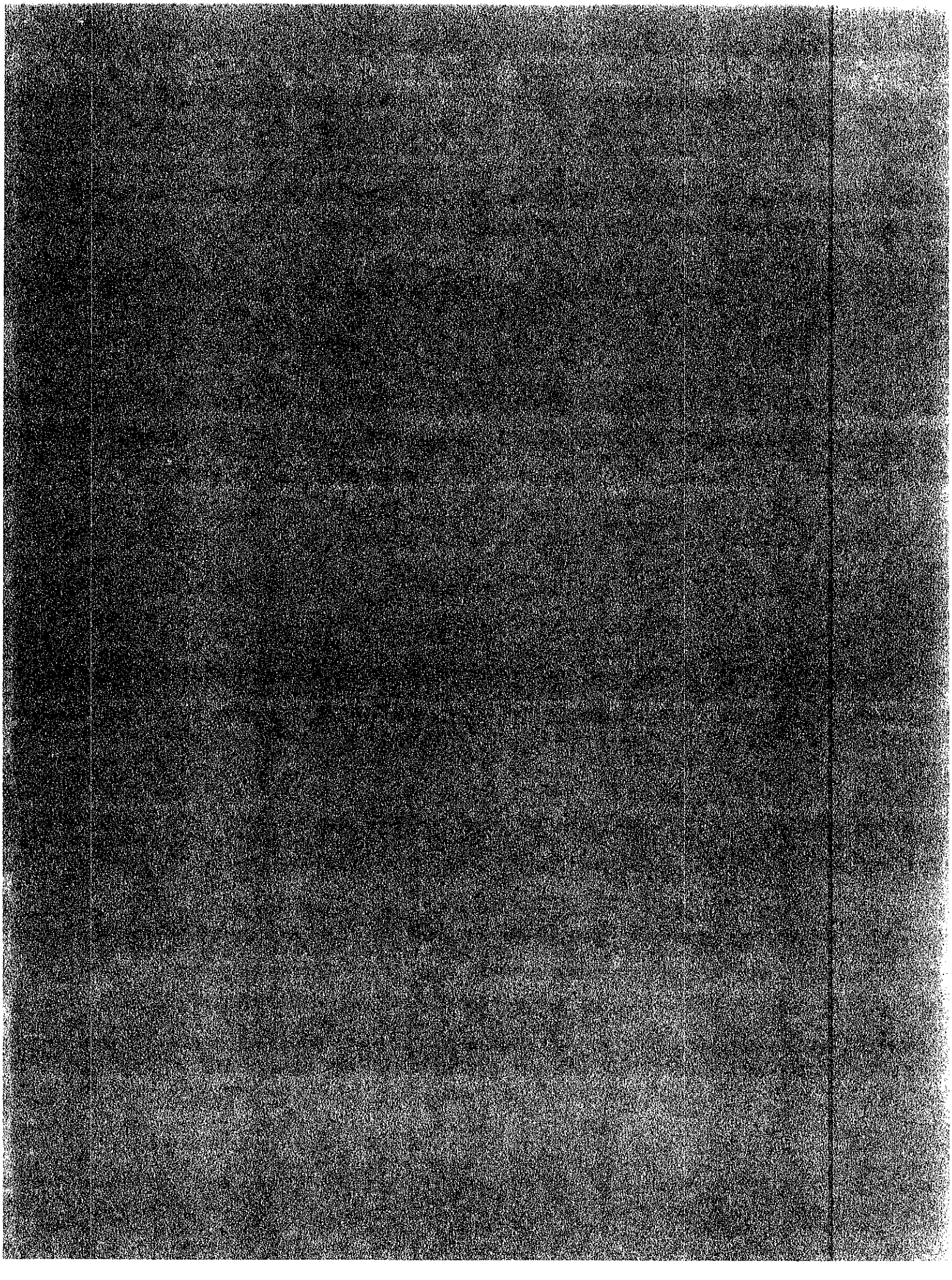
all uses for which that person or entity shall use the property. Any person or entity considering the use, acquisition or other involvement of activity concerning the property which is the subject of this report should enter into any use, occupation, acquisitions or the like on sole reliance upon any representation of and on its own personal investigation of such property, and not in reliance upon any representation of DES regarding such property, the character, quality of value thereof. DES has performed this limited investigation in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. DES shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld or not fully disclosed at the time the evaluation was performed.

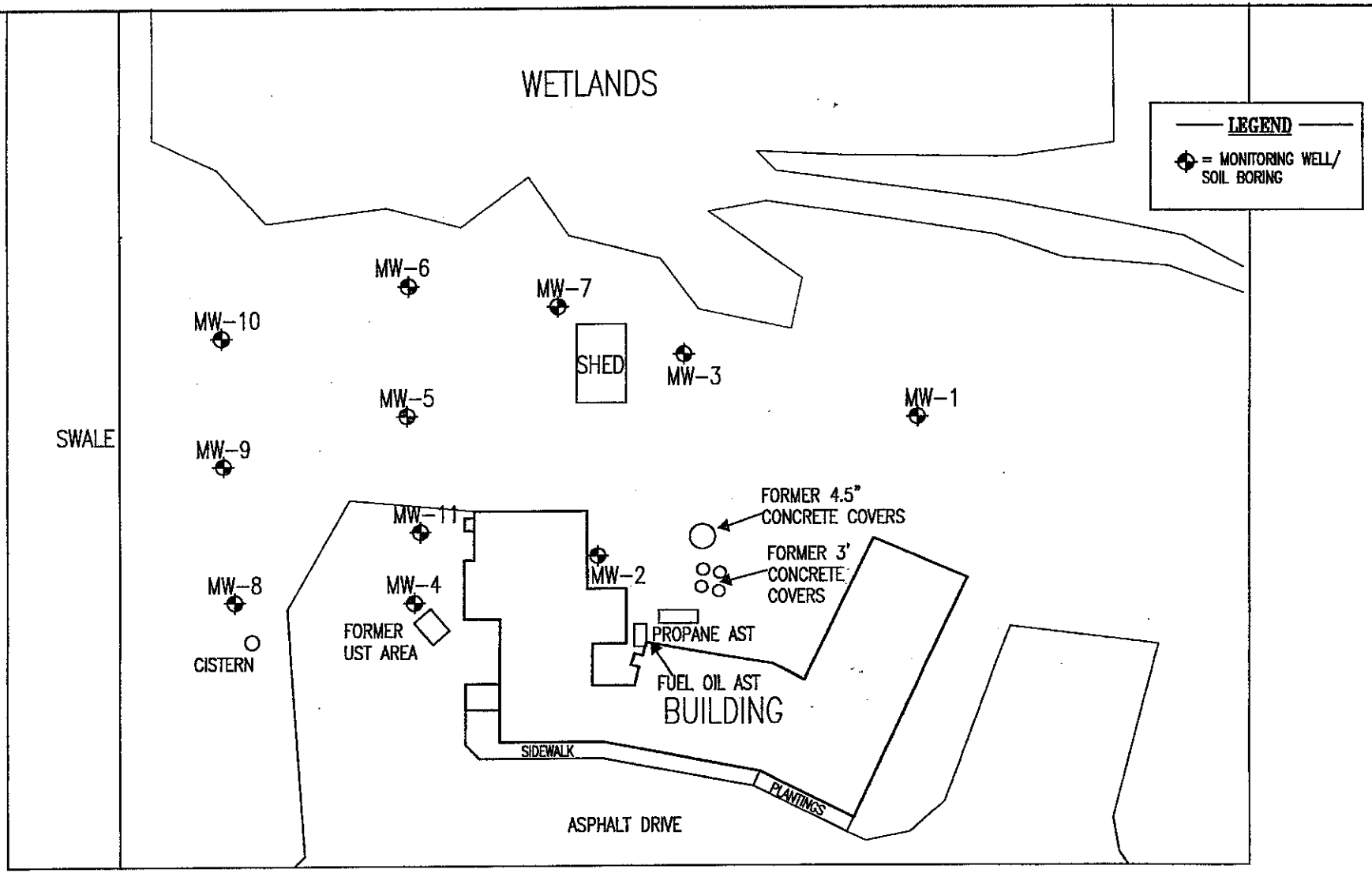
Please feel free to contact David Gworek or myself at (860) 621-3630 with any questions you may have.

Sincerely,

DIVERSIFIED ENVIRONMENTAL SERVICES

Bryce C. McMinn, MS
Project Manager



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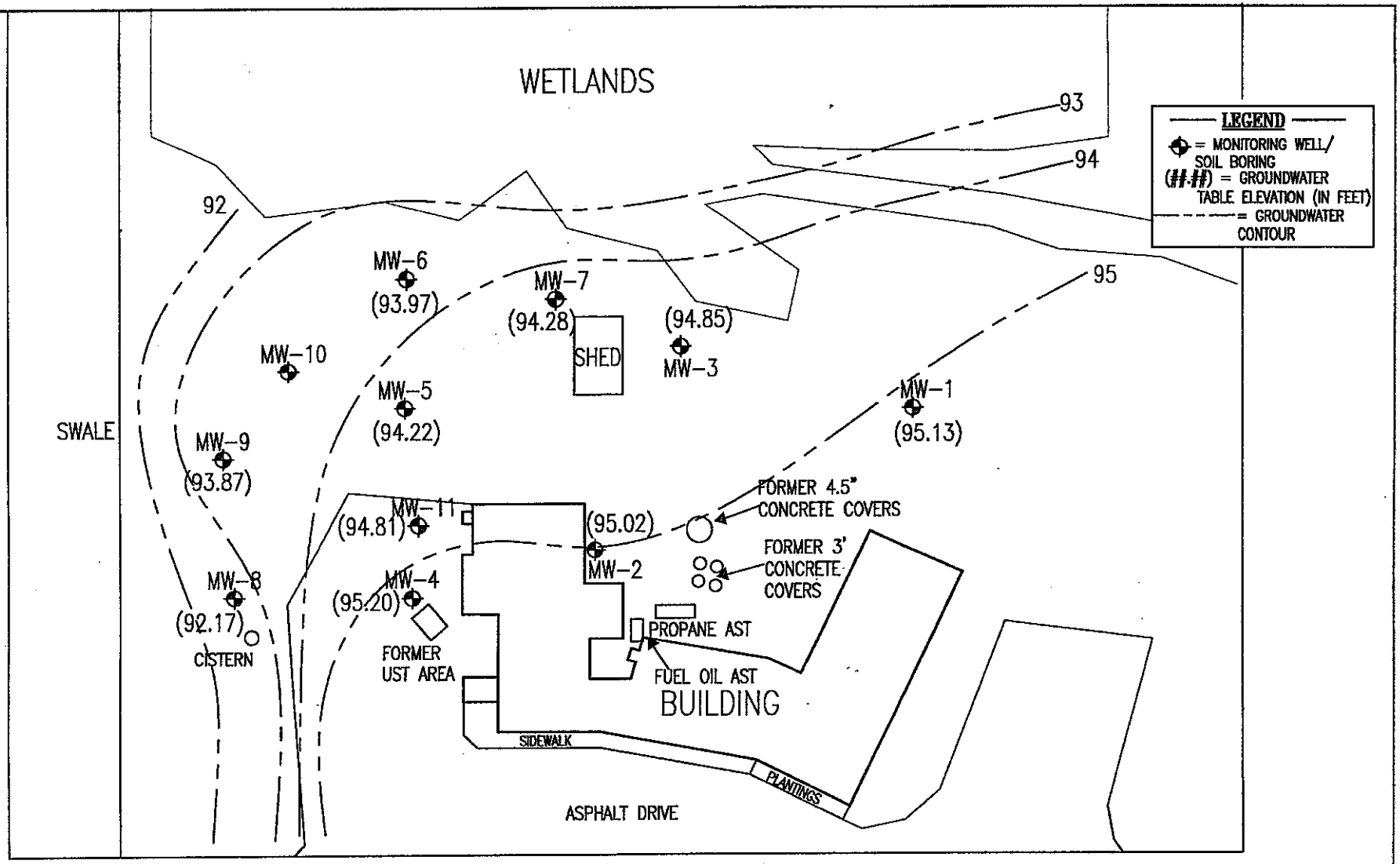
NOT TO SCALE

| DRW: BCM | CHD BY: DJG | SHEET: 1:1 | 7/02 |
|---|---|---|---|

**FIGURE 1: MONITORING WELL LOCATION MAP**

# McCARTY
# 20 STATION ROAD
# BROOKFIELD, CT

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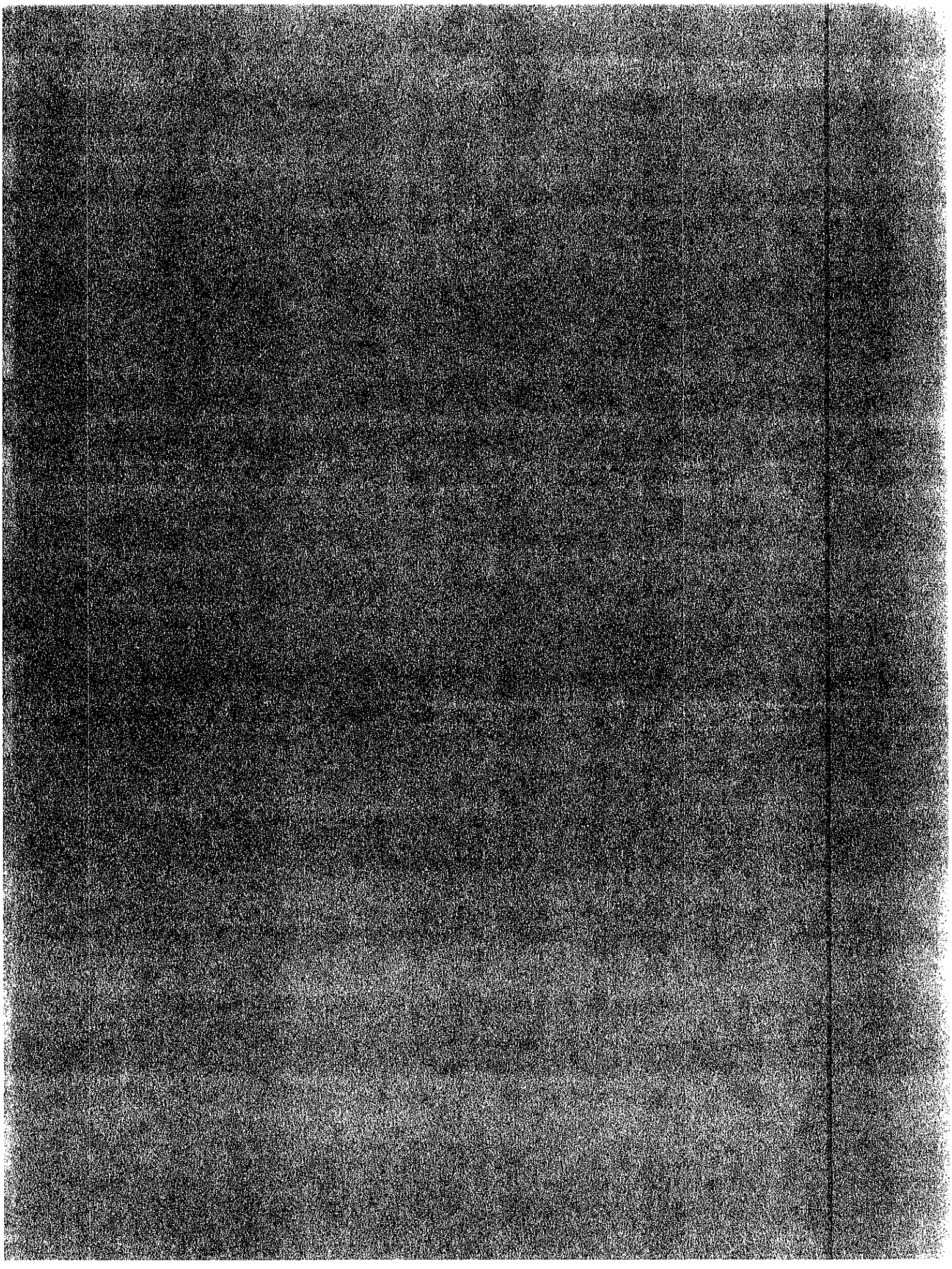
NOT TO SCALE

| DRW: BCM | CHD BY: DJG | SHEET: 1:1 | 7/02 |
|---|---|---|---|

**FIGURE 2: 7/10/02 GROUNDWATER CONTOUR MAP**

# McCARTY
# 20 STATION ROAD
# BROOKFIELD, CT



# Technical Report

prepared for

**Diversified Environmental Serv.**
**1755 Meriden-Waterbury Tpk.**
**P.O. Box 337**
**Milldale, CT 06467**
**Attention: Bryce McMinn**

Report Date: 7/19/2002
***Re: Client Project ID: #1275 / Ed McCarty***
York Project No.: 02070247

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

Report Date: 7/19/2002
Client Project ID: #1275 / Ed McCarty
York Project No.: 02070247

**Diversified Environmental Serv.**
1755 Meriden-Waterbury Tpk.
P.O. Box 337
Milldale, CT 06467
Attention: Bryce McMinn

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/10/02. The project was identifed as your project "#1275 ".

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

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

### *Analysis Results*

| Client Sample ID | | | MW-1 | | MW-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-01 | | 02070247-02 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Volatiles-8260+MTBE water | SW846-8260 | ug/L | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 25 |
| 1,1,1-Trichloroethane | | | Not detected | 1 | Not detected | 25 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 25 |
| 1,1,2-Trichloroethane | | | Not detected | 1 | Not detected | 25 |
| 1,1-Dichloroethane | | | Not detected | 1 | Not detected | 25 |
| 1,1-Dichloroethylene | | | Not detected | 1 | Not detected | 25 |
| 1,1-Dichloropropylene | | | Not detected | 1 | Not detected | 25 |
| 1,2,3-Trichlorobenzene | | | Not detected | 1 | Not detected | 25 |
| 1,2,3-Trichloropropane | | | Not detected | 1 | Not detected | 25 |
| 1,2,3-Trimethylbenzene | | | Not detected | 1 | Not detected | 25 |
| 1,2,4-Trichlorobenzene | | | Not detected | 1 | Not detected | 25 |
| 1,2,4-Trimethylbenzene | | | Not detected | 1 | 60 | 25 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 1 | Not detected | 25 |
| 1,2-Dibromoethane | | | Not detected | 1 | Not detected | 25 |
| 1,2-Dichlorobenzene | | | Not detected | 1 | Not detected | 25 |
| 1,2-Dichloroethane | | | Not detected | 1 | Not detected | 25 |

| Client Sample ID | | | MW-1 | | MW-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-01 | | 02070247-02 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| 1,2-Dichloroethylene (Total) | | | Not detected | 1 | 750(cis-) | 25 |
| 1,2-Dichloropropane | | | Not detected | 1 | Not detected | 25 |
| 1,3,5-Trimethylbenzene | | | Not detected | 1 | Not detected | 25 |
| 1,3-Dichlorobenzene | | | Not detected | 1 | Not detected | 25 |
| 1,3-Dichloropropane | | | Not detected | 1 | Not detected | 25 |
| 1,4-Dichlorobenzene | | | Not detected | 1 | Not detected | 25 |
| 1-Chlorohexane | | | Not detected | 1 | Not detected | 25 |
| 2,2-Dichloropropane | | | Not detected | 1 | Not detected | 25 |
| 2-Chlorotoluene | | | Not detected | 1 | Not detected | 25 |
| 4-Chlorotoluene | | | Not detected | 1 | Not detected | 25 |
| Benzene | | | Not detected | 1 | Not detected | 25 |
| Bromobenzene | | | Not detected | 1 | Not detected | 25 |
| Bromochloromethane | | | Not detected | 1 | Not detected | 25 |
| Bromodichloromethane | | | Not detected | 1 | Not detected | 25 |
| Bromoform | | | Not detected | 1 | Not detected | 25 |
| Bromomethane | | | Not detected | 1 | Not detected | 25 |
| Carbon tetrachloride | | | Not detected | 1 | Not detected | 25 |
| Chlorobenzene | | | Not detected | 1 | Not detected | 25 |
| Chloroethane | | | Not detected | 1 | Not detected | 25 |
| Chloroform | | | Not detected | 1 | Not detected | 25 |
| Chloromethane | | | Not detected | 1 | Not detected | 25 |
| cis-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 25 |
| Dibromochloromethane | | | Not detected | 1 | Not detected | 25 |
| Dibromomethane | | | Not detected | 1 | Not detected | 25 |
| Dichlorodifluoromethane | | | Not detected | 1 | Not detected | 25 |
| Ethylbenzene | | | Not detected | 1 | 29 | 25 |
| Hexachlorobutadiene | | | Not detected | 1 | Not detected | 25 |
| Isopropylbenzene | | | Not detected | 1 | Not detected | 25 |
| Methyl tert-butyl ether (MTBE) | | | Not detected | 1 | 52 | 25 |
| Methylene chloride | | | Not detected | 1 | Not detected | 25 |
| Naphthalene | | | Not detected | 1 | Not detected | 25 |
| n-Butylbenzene | | | Not detected | 1 | Not detected | 25 |
| n-Propylbenzene | | | Not detected | 1 | Not detected | 25 |
| o-Xylene | | | Not detected | 1 | 27 | 25 |
| p- & m-Xylenes | | | Not detected | 1 | 64 | 25 |
| p-Isopropyltoluene | | | Not detected | 1 | Not detected | 25 |
| sec-Butylbenzene | | | Not detected | 1 | Not detected | 25 |
| Styrene | | | Not detected | 1 | Not detected | 25 |
| tert-Butylbenzene | | | Not detected | 1 | Not detected | 25 |
| Tetrachloroethylene | | | Not detected | 1 | 1700 | 25 |
| Toluene | | | Not detected | 1 | Not detected | 25 |
| trans-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 25 |
| Trichloroethylene | | | Not detected | 1 | 330 | 25 |
| Trichlorofluoromethane | | | Not detected | 1 | Not detected | 25 |
| Vinyl chloride | | | Not detected | 1 | 11 | 25 |

| Client Sample ID | | | MW-6 | | MW-8 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-03 | | 02070247-04 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Volatiles-8260+MTBE water | SW846-8260 | ug/L | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1,1-Trichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1,2-Trichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1-Dichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,1-Dichloroethylene | | | Not detected | 1 | Not detected | 1 |
| 1,1-Dichloropropylene | | | Not detected | 1 | Not detected | 1 |
| 1,2,3-Trichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2,3-Trichloropropane | | | Not detected | 1 | Not detected | 1 |
| 1,2,3-Trimethylbenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2,4-Trichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2,4-Trimethylbenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dibromoethane | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dichloroethane | | | Not detected | 1 | Not detected | 1 |
| 1,2-Dichloroethylene (Total) | | | 86(cis-) | 1 | 6(cis-) | 1 |
| 1,2-Dichloropropane | | | Not detected | 1 | Not detected | 1 |
| 1,3,5-Trimethylbenzene | | | Not detected | 1 | Not detected | 1 |
| 1,3-Dichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1,3-Dichloropropane | | | Not detected | 1 | Not detected | 1 |
| 1,4-Dichlorobenzene | | | Not detected | 1 | Not detected | 1 |
| 1-Chlorohexane | | | Not detected | 1 | Not detected | 1 |
| 2,2-Dichloropropane | | | Not detected | 1 | Not detected | 1 |
| 2-Chlorotoluene | | | Not detected | 1 | Not detected | 1 |
| 4-Chlorotoluene | | | Not detected | 1 | Not detected | 1 |
| Benzene | | | Not detected | 1 | Not detected | 1 |
| Bromobenzene | | | Not detected | 1 | Not detected | 1 |
| Bromochloromethane | | | Not detected | 1 | Not detected | 1 |
| Bromodichloromethane | | | Not detected | 1 | Not detected | 1 |
| Bromoform | | | Not detected | 1 | Not detected | 1 |
| Bromomethane | | | Not detected | 1 | Not detected | 1 |
| Carbon tetrachloride | | | Not detected | 1 | Not detected | 1 |
| Chlorobenzene | | | Not detected | 1 | Not detected | 1 |
| Chloroethane | | | Not detected | 1 | Not detected | 1 |
| Chloroform | | | Not detected | 1 | Not detected | 1 |
| Chloromethane | | | Not detected | 1 | Not detected | 1 |
| cis-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 1 |
| Dibromochloromethane | | | Not detected | 1 | Not detected | 1 |
| Dibromomethane | | | Not detected | 1 | Not detected | 1 |
| Dichlorodifluoromethane | | | Not detected | 1 | Not detected | 1 |
| Ethylbenzene | | | Not detected | 1 | Not detected | 1 |
| Hexachlorobutadiene | | | Not detected | 1 | Not detected | 1 |
| Isopropylbenzene | | | Not detected | 1 | Not detected | 1 |
| Methyl tert-butyl ether (MTBE) | | | Not detected | 1 | 8 | 1 |
| Methylene chloride | | | Not detected | 1 | Not detected | 1 |
| Naphthalene | | | Not detected | 1 | Not detected | 1 |
| n-Butylbenzene | | | Not detected | 1 | Not detected | 1 |
| n-Propylbenzene | | | Not detected | 1 | Not detected | 1 |

| Client Sample ID | | | MW-6 | | MW-8 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-03 | | 02070247-04 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| o-Xylene | | | Not detected | 1 | Not detected | 1 |
| p- & m-Xylenes | | | Not detected | 1 | Not detected | 1 |
| p-Isopropyltoluene | | | Not detected | 1 | Not detected | 1 |
| sec-Butylbenzene | | | Not detected | 1 | Not detected | 1 |
| Styrene | | | Not detected | 1 | Not detected | 1 |
| tert-Butylbenzene | | | Not detected | 1 | Not detected | 1 |
| Tetrachloroethylene | | | 36 | 1 | 4 | 1 |
| Toluene | | | Not detected | 1 | Not detected | 1 |
| trans-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 1 |
| Trichloroethylene | | | 39 | 1 | Not detected | 1 |
| Trichlorofluoromethane | | | Not detected | 1 | Not detected | 1 |
| Vinyl chloride | | | 3 | 1 | Not detected | 1 |

| Client Sample ID | | | MW-9 | | MW-10 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-05 | | 02070247-06 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Volatiles-8260+MTBE water | SW846-8260 | ug/L | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 5.0 |
| 1,1,1-Trichloroethane | | | Not detected | 1 | Not detected | 5.0 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 1 | Not detected | 5.0 |
| 1,1,2-Trichloroethane | | | Not detected | 1 | Not detected | 5.0 |
| 1,1-Dichloroethane | | | Not detected | 1 | Not detected | 5.0 |
| 1,1-Dichloroethylene | | | Not detected | 1 | Not detected | 5.0 |
| 1,1-Dichloropropylene | | | Not detected | 1 | Not detected | 5.0 |
| 1,2,3-Trichlorobenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1,2,3-Trichloropropane | | | Not detected | 1 | Not detected | 5.0 |
| 1,2,3-Trimethylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1,2,4-Trichlorobenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1,2,4-Trimethylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 1 | Not detected | 5.0 |
| 1,2-Dibromoethane | | | Not detected | 1 | Not detected | 5.0 |
| 1,2-Dichlorobenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1,2-Dichloroethane | | | Not detected | 1 | Not detected | 5.0 |
| 1,2-Dichloroethylene (Total) | | | 68(cis-) | 1 | 150(cis-) | 5.0 |
| 1,2-Dichloropropane | | | Not detected | 1 | Not detected | 5.0 |
| 1,3,5-Trimethylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1,3-Dichlorobenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1,3-Dichloropropane | | | Not detected | 1 | Not detected | 5.0 |
| 1,4-Dichlorobenzene | | | Not detected | 1 | Not detected | 5.0 |
| 1-Chlorohexane | | | Not detected | 1 | Not detected | 5.0 |
| 2,2-Dichloropropane | | | Not detected | 1 | Not detected | 5.0 |
| 2-Chlorotoluene | | | Not detected | 1 | Not detected | 5.0 |
| 4-Chlorotoluene | | | Not detected | 1 | Not detected | 5.0 |
| Benzene | | | Not detected | 1 | Not detected | 5.0 |
| Bromobenzene | | | Not detected | 1 | Not detected | 5.0 |
| Bromochloromethane | | | Not detected | 1 | Not detected | 5.0 |
| Bromodichloromethane | | | Not detected | 1 | Not detected | 5.0 |
| Bromoform | | | Not detected | 1 | Not detected | 5.0 |

| Client Sample ID | | | MW-9 | | MW-10 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-05 | | 02070247-06 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Bromomethane | | | Not detected | 1 | Not detected | 5.0 |
| Carbon tetrachloride | | | Not detected | 1 | Not detected | 5.0 |
| Chlorobenzene | | | Not detected | 1 | Not detected | 5.0 |
| Chloroethane | | | Not detected | 1 | Not detected | 5.0 |
| Chloroform | | | Not detected | 1 | Not detected | 5.0 |
| Chloromethane | | | Not detected | 1 | Not detected | 5.0 |
| cis-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 5.0 |
| Dibromochloromethane | | | Not detected | 1 | Not detected | 5.0 |
| Dibromomethane | | | Not detected | 1 | Not detected | 5.0 |
| Dichlorodifluoromethane | | | Not detected | 1 | Not detected | 5.0 |
| Ethylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| Hexachlorobutadiene | | | Not detected | 1 | Not detected | 5.0 |
| Isopropylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| Methyl tert-butyl ether (MTBE) | | | 4 | 1 | 18 | 5.0 |
| Methylene chloride | | | Not detected | 1 | Not detected | 5.0 |
| Naphthalene | | | Not detected | 1 | Not detected | 5.0 |
| n-Butylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| n-Propylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| o-Xylene | | | Not detected | 1 | Not detected | 5.0 |
| p- & m-Xylenes | | | Not detected | 1 | Not detected | 5.0 |
| p-Isopropyltoluene | | | Not detected | 1 | Not detected | 5.0 |
| sec-Butylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| Styrene | | | Not detected | 1 | Not detected | 5.0 |
| tert-Butylbenzene | | | Not detected | 1 | Not detected | 5.0 |
| Tetrachloroethylene | | | 26 | 1 | 520 | 5.0 |
| Toluene | | | Not detected | 1 | Not detected | 5.0 |
| trans-1,3-Dichloropropylene | | | Not detected | 1 | Not detected | 5.0 |
| Trichloroethylene | | | 23 | 1 | 37 | 5.0 |
| Trichlorofluoromethane | | | Not detected | 1 | Not detected | 5.0 |
| Vinyl chloride | | | Not detected | 1 | Not detected | 5.0 |

| Client Sample ID | | | MW-11 | | Trip Blank | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-07 | | 02070247-08 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Volatiles-8260+MTBE water | SW846-8260 | ug/L | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 100 | Not detected | 1 |
| 1,1,1-Trichloroethane | | | Not detected | 100 | Not detected | 1 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 100 | Not detected | 1 |
| 1,1,2-Trichloroethane | | | Not detected | 100 | Not detected | 1 |
| 1,1-Dichloroethane | | | Not detected | 100 | Not detected | 1 |
| 1,1-Dichloroethylene | | | Not detected | 100 | Not detected | 1 |
| 1,1-Dichloropropylene | | | Not detected | 100 | Not detected | 1 |
| 1,2,3-Trichlorobenzene | | | Not detected | 100 | Not detected | 1 |
| 1,2,3-Trichloropropane | | | Not detected | 100 | Not detected | 1 |
| 1,2,3-Trimethylbenzene | | | Not detected | 100 | Not detected | 1 |
| 1,2,4-Trichlorobenzene | | | Not detected | 100 | Not detected | 1 |
| 1,2,4-Trimethylbenzene | | | Not detected | 100 | Not detected | 1 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 100 | Not detected | 1 |

| Client Sample ID | | | MW-11 | | Trip Blank | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 02070247-07 | | 02070247-08 | |
| Matrix | | | WATER | | WATER | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| 1,2-Dibromoethane | | | Not detected | 100 | Not detected | 1 |
| 1,2-Dichlorobenzene | | | Not detected | 100 | Not detected | 1 |
| 1,2-Dichloroethane | | | Not detected | 100 | Not detected | 1 |
| 1,2-Dichloroethylene (Total) | | | 1800(cis-) | 100 | Not detected | 1 |
| 1,2-Dichloropropane | | | Not detected | 100 | Not detected | 1 |
| 1,3,5-Trimethylbenzene | | | Not detected | 100 | Not detected | 1 |
| 1,3-Dichlorobenzene | | | Not detected | 100 | Not detected | 1 |
| 1,3-Dichloropropane | | | Not detected | 100 | Not detected | 1 |
| 1,4-Dichlorobenzene | | | Not detected | 100 | Not detected | 1 |
| 1-Chlorohexane | | | Not detected | 100 | Not detected | 1 |
| 2,2-Dichloropropane | | | Not detected | 100 | Not detected | 1 |
| 2-Chlorotoluene | | | Not detected | 100 | Not detected | 1 |
| 4-Chlorotoluene | | | Not detected | 100 | Not detected | 1 |
| Benzene | | | Not detected | 100 | Not detected | 1 |
| Bromobenzene | | | Not detected | 100 | Not detected | 1 |
| Bromochloromethane | | | Not detected | 100 | Not detected | 1 |
| Bromodichloromethane | | | Not detected | 100 | Not detected | 1 |
| Bromoform | | | Not detected | 100 | Not detected | 1 |
| Bromomethane | | | Not detected | 100 | Not detected | 1 |
| Carbon tetrachloride | | | Not detected | 100 | Not detected | 1 |
| Chlorobenzene | | | Not detected | 100 | Not detected | 1 |
| Chloroethane | | | Not detected | 100 | Not detected | 1 |
| Chloroform | | | Not detected | 100 | Not detected | 1 |
| Chloromethane | | | Not detected | 100 | Not detected | 1 |
| cis-1,3-Dichloropropylene | | | Not detected | 100 | Not detected | 1 |
| Dibromochloromethane | | | Not detected | 100 | Not detected | 1 |
| Dibromomethane | | | Not detected | 100 | Not detected | 1 |
| Dichlorodifluoromethane | | | Not detected | 100 | Not detected | 1 |
| Ethylbenzene | | | Not detected | 100 | Not detected | 1 |
| Hexachlorobutadiene | | | Not detected | 100 | Not detected | 1 |
| Isopropylbenzene | | | Not detected | 100 | Not detected | 1 |
| Methyl tert-butyl ether (MTBE) | | | Not detected | 100 | Not detected | 1 |
| Methylene chloride | | | Not detected | 100 | Not detected | 1 |
| Naphthalene | | | Not detected | 100 | Not detected | 1 |
| n-Butylbenzene | | | Not detected | 100 | Not detected | 1 |
| n-Propylbenzene | | | Not detected | 100 | Not detected | 1 |
| o-Xylene | | | Not detected | 100 | Not detected | 1 |
| p- & m-Xylenes | | | Not detected | 100 | Not detected | 1 |
| p-Isopropyltoluene | | | Not detected | 100 | Not detected | 1 |
| sec-Butylbenzene | | | Not detected | 100 | Not detected | 1 |
| Styrene | | | Not detected | 100 | Not detected | 1 |
| tert-Butylbenzene | | | Not detected | 100 | Not detected | 1 |
| Tetrachloroethylene | | | 30000 | 100 | Not detected | 1 |
| Toluene | | | Not detected | 100 | Not detected | 1 |
| trans-1,3-Dichloropropylene | | | Not detected | 100 | Not detected | 1 |
| Trichloroethylene | | | 1500 | 100 | Not detected | 1 |
| Trichlorofluoromethane | | | Not detected | 100 | Not detected | 1 |
| Vinyl chloride | | | Not detected | 100 | Not detected | 1 |

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

**Notes for York Project No. 02070247**

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

**Approved By:**_____ **Date:** 7/19/2002

Robert Q. Bradley
Managing Director