

FINAL REPORT

**INTERIM REMEDIAL MEASURE
PROGRAM**

**SEMI-ANNUAL PROGRESS REPORT
OCTOBER 1999 – MARCH 2000**

**FORMER GRIFFIN TECHNOLOGY FACILITY
TOWN OF FARMINGTON
ONTARIO COUNTY, NEW YORK
INDEX NO. (B8-315-90-01)**

Prepared for
Diebold, Inc.
Canton, Ohio

June 16, 2000

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CERTIFICATION

INTERIM REMEDIAL MEASURE SEMI-ANNUAL PROGRESS REPORT

OCTOBER 1999 – MARCH 2000

GRIFFIN TECHNOLOGY, INC. FACILITY

TOWN OF FARMINGTON

ONTARIO COUNTY, NEW YORK

The enclosed Semi-Annual Progress Report has been reviewed by the undersigned and has been found to be consistent with the requirements of the Order on Consent (Index No. B8-315-90-01), entered into by the New York State Department of Environmental Conservation and Griffin Technology, Inc.

Name: Martin S. Leonard, P.E.
Title: Consulting Professional Engineer
Date: June 23, 2000

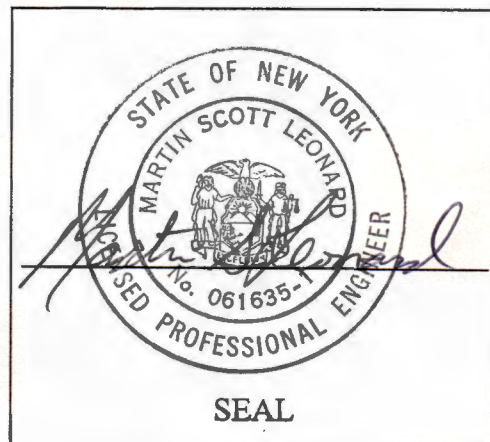


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This report presents information collected by URS Greiner Woodward Clyde (URSGWC) between October 1999 and March 2000 during the operation of the Interim Remedial Measure (IRM) system at the Griffin Technology, Inc. (GTI) site located at 6132 Victor-Manchester Road in the Farmington, Ontario County, New York. A general location map is included as Figure 1-1.

The IRM system consists of four wells equipped with groundwater extraction pumps, which have been plumbed to discharge groundwater into the local sanitary sewer system. The IRM system was proposed in the *IRM Work Plan* submitted to the New York State Department of Environmental Conservation (NYSDEC) on July 10, 1996. The Work Plan was prepared in accordance with the Order on Consent agreement (Index No. B8-315-90-01) entered into by GTI and the NYSDEC. Information supporting the selected IRM, such as the Field Sampling Plan (FSP), Quality Assurance Project Plan (QAPP), and Health and Safety Plan (HASP), were included in the Work Plan.

On September 27, 1996, GTI submitted an *Interim Remedial Measure Program, Final Design Document* to the NYSDEC. This document contained the proposed layout and detail drawings for the IRM system and a copy of the letter approving the discharge of recovered groundwater into the local publicly-owned treatment works (POTW) sanitary sewer. In addition, an implementation schedule to construct the system and a proposed two year sample collection and reporting schedule were included in the design document.

During December 1996 and January 1997, the IRM components were installed at the site. The components included three recovery wells and one deep monitoring well with the potential to be converted to a recovery well in the future. Following approval by the NYSDEC and the Canandagua-Farmington Water and Sewer District to discharge recovery water into the sanitary sewer system, the system was placed on line with three recovery wells. The IRM system began operating on February 18, 1997. Between April and June 1999, one deep monitoring well (MW-2D) was converted to a recovery well (RW-4) and brought on line.

In April 1999, a subsurface soil investigation was conducted at the GTI site to evaluate current soil conditions west of the manufacturing building. The scope of work and results are detailed in the *Soil Investigation Report*, dated June 25, 1999.

The activities performed during this six-month period of operation are described in Section 2.0. Information collected during this period of operation is presented in Section 3.0. Conclusions and recommendations are presented in Section 4.0.

The Scope of Work for the IRM was presented in the Final Design Document presented to the NYSDEC on September 27, 1996. Implementation of the IRM consisted of the following elements:

- Installing an IRM system in the undeveloped parcel of land located downgradient of the source area. The IRM system consisted of installing three groundwater extraction wells, one bedrock monitoring well located in the source area which could potentially be used for additional recovery, two sets of nested piezometers located between each of the three extraction wells to monitor groundwater elevations between each well, a groundwater recovery and collection system to convey water to a central access vault, electrical power supply and controllers for each recovery pump, sample collection and flow monitoring appurtenances, and a force main sewer to discharge effluent from the access vault to a sanitary sewer located on the southeast portion of the site.
- Converting the deep bedrock monitoring well into a fourth recovery well.
- Installing a new sewer main crossing to provide sanitary sewer service to the undeveloped western parcel.
- Monitoring the quantity and quality of groundwater recovered from the system monthly and reporting this data to the local POTW.
- Monitoring the groundwater elevations in all on-site wells and piezometers to evaluate the effectiveness of the IRM as a groundwater extraction system and hydraulic barrier.
- Collecting groundwater samples from all wells located on and off site semi-annually beginning six months after initiation of the system. All groundwater samples collected during these semi-annual activities will be analyzed for volatile organic compounds (VOCs) by NYSDEC Test Method ASP 91-1 (now referenced as NYSDEC Test Method ASP 95-1).
- Preparing progress reports for submission to the NYSDEC. The reports should include data collected during the proceeding months of operation as well as information and activities to be performed during subsequent reporting periods.

2.1 IRM SYSTEM

The IRM installation activities were performed during December 1996 and January 1997. Operation of the IRM system was initiated on February 18, 1997. Modification of the IRM system was performed between April and June 1999. Between December 1999 and March 2000, a new sanitary sewer main crossing was installed beneath Victor-Manchester Road to provide separate service to the IRM system.

The layout of the IRM system, on-site groundwater monitoring wells and piezometers, and other pertinent features discussed in this report are shown in Figure 2-1. The system is currently in operation. The components comprising the IRM system are discussed in greater detail below.

2.1.1 IRM System Configuration

The IRM system originally consisted of a network of three groundwater recovery wells (designated as RW-01, RW-02 and RW-03). Between April and June 1999, one deep monitoring well (MW-2D) was converted to a recovery well (RW-4) and brought on line.

The four recovery wells are constructed with 20-foot screened intervals that straddle the contact between the overburden and the bedrock. The well depths range between approximately 27 and 33 feet below ground surface (bgs).

A Goulds Model 10GS electric, submersible pump was installed in each recovery well. Each pump is connected to a PumpTec® "Load-Sensor" type controller to automate the operation of the pump. The controllers are currently operating on 4-minute reset time intervals.

Underground piping and wiring connect the recovery wells to a Central Access Vault, located on the western side of the facility building. At the Central Access Vault, the individual groundwater conveyance pipe from each recovery well is connected to a manifold, which connects to a common header discharge pipe. Each individual conveyance pipe on the manifold is equipped with a shut-off valve, sample port, and totalizing flow meter to facilitate individual well monitoring. In addition, a shut-off valve, sample port, and totalizing flow meter are located on the common header pipe prior to discharge.

The extracted groundwater flows from the manifold and header in the Central Access Vault through a force main pipe and into a sanitary clean-out located on the southeast portion of the site. The sanitary clean-out was installed in-line with the existing sanitary sewer to facilitate discharges into a gravity sewer. Effluent is discharged into the clean-out riser pipe, down into the sanitary sewer where it travels by gravity to the Canandagua-Farmington Water and Sewer District for ultimate disposal. Prior to system start-up, it was necessary for the Canandagua-Farmington Water and Sewer District to receive permission from the NYSDEC to receive this wastewater.

2.1.2 Installation of Sewer Main Crossing

Between December 1999 and March 2000, a new sanitary sewer main crossing was installed beneath Victor-Manchester Road to provide separate sanitary sewer service to the undeveloped western parcel of the former GTI site on which the recovery system is located. The recovery system will be disconnected from the sanitary sewer on the central parcel of the GTI site (where the former GTI building is located) and connected to the new sanitary sewer main crossing at the clean out on the western parcel.

2.2 IRM SYSTEM MONITORING

During this six-month period of operation, groundwater elevation, discharge volume, and groundwater analytical data were collected to monitor the effectiveness of the IRM system. The data collected are discussed in the following subsections.

2.2.1 Hydraulic Head Measurement

Hydraulic head (groundwater elevation) measurements were collected from each groundwater well and piezometer located on site a minimum of once per month during routine site visits. During some visits, hydraulic head measurements were also collected from nearby monitoring wells MW-6S and MW-6D. On March 28, 2000, prior to the collection of groundwater samples, the water level in each on-site and off-site groundwater monitoring well was measured and recorded to evaluate groundwater flow conditions. All groundwater measurements were collected using an electronic water level indicator capable of measuring the water elevation to the nearest 0.01 ft.

2.2.2 Groundwater Sampling and Analysis

During this six-month period of operation, composite effluent samples were collected monthly from the common header discharge in the Central Access Vault. These samples were submitted to Columbia Analytical Services, Inc. (CASI) of Rochester, New York for analysis of volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) method 8260. The analytical results of these composite samples were used to report estimated loadings to the POTW.

On March 28, 2000, groundwater samples were collected to evaluate regional groundwater quality. Prior to sample collection, the static water level in each well was measured (Section 2.2.1). Using the static water level measurements, the volume of water contained in each well (the well volume) was calculated. The monitoring well was then purged of a minimum of three well volumes of water or until dry using a new, disposable, high density polyethylene (HDPE) bailer equipped with a nylon cord.

Groundwater samples were collected within 24 hours of purging each well. Samples were placed into laboratory supplied containers and placed into a cooler with ice for preservation until delivered to the laboratory for analysis. One duplicate sample was collected from monitoring well MW-4. Groundwater samples were submitted to CASI and analyzed for VOCs by NYSDEC Test Method ASP 95-1. Chain-of-custody procedures were observed throughout the sampling event.

The data collected during this six-month period of IRM system operation and the results of the March 2000 semi-annual groundwater sampling event are presented in the following subsections.

3.1 HYDRAULIC HEAD MEASUREMENT RESULTS

Hydraulic head measurements collected during this operating period from on-site and off-site groundwater monitoring wells and piezometers are presented in Table 3-1.

The elevation data were used to construct monthly groundwater contour maps of the site for the overburden water-bearing zone (Figures 3-1 through 3-7) and the bedrock water-bearing zone (Figures 3-8 through 3-14). Figure 3-7 is a contour map illustrating groundwater flow conditions in the vicinity of the site in the overburden water-bearing zone on March 28, 2000. Figure 3-14 is a contour map illustrating groundwater flow conditions in the vicinity of the site in the bedrock water-bearing zone on March 28, 2000.

The groundwater contour maps from the GTI site indicate that groundwater in the overburden water-bearing zone typically flows to the southwest. In the bedrock water-bearing zone, groundwater typically flows toward a groundwater low area near the southwest corner of the site, in the vicinity of RW-03. The March 28, 2000 data showed the presence of a groundwater low in the vicinity of monitoring well MW-7D, which has been observed previously.

The groundwater elevation data indicate that the IRM system is continuing to influence groundwater flow patterns at the GTI site. These results are consistent with previous observed site conditions.

3.2 EFFLUENT OPERATING DATA AND ANALYTICAL RESULTS

A summary of the operating data and effluent analysis collected during each month of IRM system operation is presented in Table 3-2. The results continue to indicate that groundwater containing chemicals of concern (COCs) is being removed from underneath the GTI site. The COCs detected in the effluent samples consisted of trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and cis-1,2-dichloroethene (cis-1,2-DCE). These COCs are consistent with earlier results. TCE was consistently the compound with the highest reported concentration.

The concentrations of COCs in the system effluent fluctuated during this operating period. The concentrations of COCs in the system effluent were higher at the beginning of this operating period and decreased toward the end of the operating period, with the exception of February 2000 in which the concentrations rose. The concentrations remained within the range of historical levels during the entire operating period.

The quantity of water removed by the system increased during the latter months (January through March 2000) of this operating period. This appears to be related to higher seasonal groundwater elevations during later winter and spring and is similar to conditions observed during previous years. Laboratory data sheets for effluent samples collected during this period of operation are provided in Appendix A.

3.3 GROUNDWATER ANALYTICAL RESULTS

A summary of groundwater analytical data collected from all wells on March 28, 2000 is presented in Table 3-3. Table 3-3 also summarizes the data from previous sampling events. The laboratory data sheets from CASI for this semi-annual groundwater sampling event, are provided in Appendix B. A data validation report for this data, prepared by URSGWC's QA/QC reviewer, is provided in Appendix C. Results of the validation indicate that the data are acceptable.

Groundwater analytical results obtained from the March 28, 2000 event showed that concentrations of COCs were generally lower than those reported for the previous (September 2, 1999) groundwater sampling event, but were within historical levels. The COCs detected in groundwater samples collected during March 2000 consisted of TCE, 1,1,1-TCA, cis-1,2-DCE, 1,1-dichloroethene (1,1-DCE), acetone, and vinyl chloride. TCE was consistently the compound with the highest reported concentration.

The COCs are consistent with the results of earlier sampling events, with the exception of 1,1-DCE and vinyl chloride, which were each detected for the first time in samples collected from recovery well RW-04 and monitoring well MW-7D, respectively. Vinyl chloride had previously been reported on one occasion (March 1999) in an effluent sample collected from the IRM system. Acetone had previously been detected on several occasions, but was also detected in the associated blank sample. Therefore, its occurrence was attributed to laboratory activities. Analytical results for the March 2000 sampling event reported the presence of acetone at a low concentration in the sample collected from recovery well RW-04. Acetone was not detected in the March 2000 associated blank sample. Therefore, its occurrence on this occasion cannot be attributed with confidence to laboratory activities.

Based on the information collected during this six-month period of IRM system operation, the following summary has been developed regarding environmental conditions at the GTI site:

- Groundwater flow in the overburden and bedrock zones at the site is primarily toward the southwest portion of the site. This is consistent with previous reports for the GTI site.
- The IRM system is influencing groundwater flow patterns in the vicinity of the GTI facility. The groundwater elevation data generally indicate the presence of a groundwater low in the bedrock water-bearing zone in the southwest portion of the site, in the immediate vicinity of the IRM system. The March 28, 2000 bedrock groundwater elevation data indicate the presence of a groundwater low southwest of the site in the vicinity of monitoring well MW-7D, which has been observed previously.
- Groundwater elevations were at low levels at the beginning of the operating period and increased during the latter part of the operating period (January through March).
- The monthly quantity of groundwater removed by the IRM system increased during the latter months (January through March) of the operating period. The quantity of groundwater discharged by the system appears to correlate with seasonal changes in groundwater elevations, with lower discharge and groundwater elevations in late, summer, fall, and early winter and higher discharge and groundwater elevations in late winter, spring, and early summer.
- The concentrations of COCs in the IRM system effluent were highest at the beginning of this operating period and decreased toward the end of the operating period, with the exception of February 2000 in which the concentrations rose. The concentrations of COCs remained within historical levels throughout the operating period. TCE was consistently the COC reported at the highest concentration in the IRM system effluent.
- Groundwater analytical results for samples collected during the March 28, 2000 sampling event indicated that concentrations of COCs were generally lower than those reported for the previous (September 2, 1999) groundwater sampling event, but were within historical levels.
- The COC concentrations in the IRM system effluent and groundwater monitoring well samples appear to be higher during periods of lower groundwater elevations and lower during periods of higher groundwater elevations.

Data collection activities at the site will be continued in the same manner. Continued monitoring of the site will provide additional data to evaluate the long-term effectiveness of the IRM system.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|----------|------------------------------|----------|---------------------------|--|
| MW-01 | 641.79 | 10/01/99 | 13.57 | 628.22 |
| | | 10/08/99 | 12.96 | 628.83 |
| | | 10/30/99 | 13.55 | 628.24 |
| | | 11/20/99 | 14.34 | 627.45 |
| | | 12/01/99 | 10.89 | 630.90 |
| | | 12/11/99 | 11.35 | 630.44 |
| | | 12/29/99 | 8.28 | 633.51 |
| | | 01/14/00 | 6.48 | 635.31 |
| | | 02/01/00 | 9.14 | 632.65 |
| | | 02/15/00 | 8.66 | 633.13 |
| | | 03/01/00 | 3.72 | 638.07 |
| | | 03/18/00 | 4.15 | 637.64 |
| | | 03/28/00 | 4.64 | 637.15 |
| | | MW-02S | 641.28 | 10/01/99 |
| 10/08/99 | DRY | | | DRY |
| 10/30/99 | DRY | | | DRY |
| 11/20/99 | DRY | | | DRY |
| 12/01/99 | DRY | | | DRY |
| 12/11/99 | DRY | | | DRY |
| 12/29/99 | DRY | | | DRY |
| 01/14/00 | 14.42 | | | 626.86 |
| 02/01/00 | DRY | | | DRY |
| 02/15/00 | DRY | | | DRY |
| 03/01/00 | 5.71 | | | 635.57 |
| 03/18/00 | 6.55 | | | 634.73 |
| 03/28/00 | 7.61 | | | 633.67 |
| MW-2D | 642.37 | | | Monitoring well converted to recovery well RW-4. |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| MW-03 | 642.17 | 10/01/99 | 17.28 | 624.89 |
| | | 10/08/99 | 16.91 | 625.26 |
| | | 10/30/99 | 17.58 | 624.59 |
| | | 11/20/99 | 18.44 | 623.73 |
| | | 12/01/99 | 15.35 | 626.82 |
| | | 12/11/99 | 15.19 | 626.98 |
| | | 12/29/99 | 12.68 | 629.49 |
| | | 01/14/00 | 11.14 | 631.03 |
| | | 02/01/00 | 13.45 | 628.72 |
| | | 02/15/00 | 13.55 | 628.62 |
| | | 03/01/00 | 4.80 | 637.37 |
| | | 03/18/00 | 5.87 | 636.30 |
| | | 03/28/00 | 8.08 | 634.09 |
| MW-04 | 641.75 | 10/01/99 | 18.65 | 623.10 |
| | | 10/08/99 | 19.54 | 622.21 |
| | | 10/30/99 | 19.53 | 622.22 |
| | | 11/20/99 | 19.56 | 622.19 |
| | | 12/01/99 | 17.44 | 624.31 |
| | | 12/11/99 | 17.81 | 623.94 |
| | | 12/29/99 | 18.00 | 623.75 |
| | | 01/14/00 | 17.11 | 624.64 |
| | | 02/01/00 | 18.43 | 623.32 |
| | | 02/15/00 | 18.48 | 623.27 |
| | | 03/01/00 | 7.26 | 634.49 |
| | | 03/18/00 | 7.91 | 633.84 |
| | | 03/28/00 | 6.44 | 635.31 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| MW-05S | 640.85 | 10/01/99 | 20.53 | 620.32 |
| | | 10/08/99 | 20.58 | 620.27 |
| | | 10/30/99 | DRY | DRY |
| | | 11/20/99 | DRY | DRY |
| | | 12/01/99 | 20.10 | 620.75 |
| | | 12/11/99 | 20.44 | 620.41 |
| | | 12/29/99 | 19.12 | 621.73 |
| | | 01/14/00 | 18.12 | 622.73 |
| | | 02/01/00 | 18.83 | 622.02 |
| | | 02/15/00 | 19.14 | 621.71 |
| | | 03/01/00 | 8.63 | 632.22 |
| | | 03/18/00 | 9.25 | 631.60 |
| | | 03/28/00 | 10.77 | 630.08 |
| MW-05D | 641.01 | 10/01/99 | 22.61 | 618.40 |
| | | 10/08/99 | 22.55 | 618.46 |
| | | 10/30/99 | 22.82 | 618.19 |
| | | 11/20/99 | 23.20 | 617.81 |
| | | 12/01/99 | 22.29 | 618.72 |
| | | 12/11/99 | 22.32 | 618.69 |
| | | 12/29/99 | 21.30 | 619.71 |
| | | 01/14/00 | 20.40 | 620.61 |
| | | 02/01/00 | 20.98 | 620.03 |
| | | 02/15/00 | 21.03 | 619.98 |
| | | 03/01/00 | 15.05 | 625.96 |
| | | 03/18/00 | 15.31 | 625.70 |
| | | 03/28/00 | 17.58 | 623.43 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| MW-06S | 636.61 | 10/01/99 | NM | NM |
| | | 10/08/99 | 15.38 | 621.23 |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | 16.42 | 620.19 |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | 15.58 | 621.03 |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | 13.37 | 623.24 |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | 13.97 | 622.64 |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | 4.09 | 632.52 |
| | | 03/28/00 | 6.35 | 630.26 |
| MW-06D | 636.83 | 10/01/99 | NM | NM |
| | | 10/08/99 | 15.54 | 621.29 |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | 16.65 | 620.18 |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | 15.78 | 621.05 |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | 13.58 | 623.25 |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | 14.22 | 622.61 |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | 4.36 | 632.47 |
| | | 03/28/00 | 6.57 | 630.26 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| MW-07S | 634.29 | 10/01/99 | NM | NM |
| | | 10/08/99 | NM | NM |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | NM | NM |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | NM | NM |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | NM | NM |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | NM | NM |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | NM | NM |
| | | 03/28/00 | 6.56 | 627.73 |
| MW-07D | 634.16 | 10/01/99 | NM | NM |
| | | 10/08/99 | NM | NM |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | NM | NM |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | NM | NM |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | NM | NM |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | NM | NM |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | NM | NM |
| | | 03/28/00 | 31.81 | 602.35 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| MW-09S | 630.16 | 10/01/99 | NM | NM |
| | | 10/08/99 | NM | NM |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | NM | NM |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | NM | NM |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | NM | NM |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | NM | NM |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | NM | NM |
| | | 03/28/00 | 9.68 | 620.48 |
| MW-09D | 630.29 | 10/01/99 | NM | NM |
| | | 10/08/99 | NM | NM |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | NM | NM |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | NM | NM |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | NM | NM |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | NM | NM |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | NM | NM |
| | | 03/28/00 | 28.21 | 602.08 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| MW-10S | 629.00 | 10/01/99 | NM | NM |
| | | 10/08/99 | NM | NM |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | NM | NM |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | NM | NM |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | NM | NM |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | NM | NM |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | NM | NM |
| | | 03/28/00 | 15.34 | 613.66 |
| MW-10D | 626.80 | 10/01/99 | NM | NM |
| | | 10/08/99 | NM | NM |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | NM | NM |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | NM | NM |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | NM | NM |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | NM | NM |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | NM | NM |
| | | 03/28/00 | 15.89 | 610.91 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| MW-11D | 641.89 | 10/01/99 | 18.62 | 623.27 |
| | | 10/08/99 | 18.54 | 623.35 |
| | | 10/30/99 | 18.45 | 623.44 |
| | | 11/20/99 | 18.85 | 623.04 |
| | | 12/01/99 | 18.63 | 623.26 |
| | | 12/11/99 | 18.19 | 623.70 |
| | | 12/29/99 | 15.96 | 625.93 |
| | | 01/14/00 | 14.33 | 627.56 |
| | | 02/01/00 | 15.40 | 626.49 |
| | | 02/15/00 | 15.09 | 626.80 |
| | | 03/01/00 | 6.79 | 635.10 |
| | | 03/18/00 | 7.10 | 634.79 |
| | | 03/28/00 | 8.77 | 633.12 |
| MW-13D | 636.58 | 10/01/99 | NM | NM |
| | | 10/08/99 | NM | NM |
| | | 10/30/99 | NM | NM |
| | | 11/20/99 | NM | NM |
| | | 12/01/99 | NM | NM |
| | | 12/11/99 | NM | NM |
| | | 12/29/99 | NM | NM |
| | | 01/14/00 | NM | NM |
| | | 02/01/00 | NM | NM |
| | | 02/15/00 | NM | NM |
| | | 03/01/00 | NM | NM |
| | | 03/18/00 | NM | NM |
| | | 03/28/00 | 6.88 | 629.70 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| PZ-1S | 640.50 | 10/01/99 | DRY | DRY |
| | | 10/08/99 | DRY | DRY |
| | | 10/30/99 | DRY | DRY |
| | | 11/20/99 | DRY | DRY |
| | | 12/01/99 | DRY | DRY |
| | | 12/11/99 | DRY | DRY |
| | | 12/29/99 | DRY | DRY |
| | | 01/14/00 | DRY | DRY |
| | | 02/01/00 | DRY | DRY |
| | | 02/15/00 | DRY | DRY |
| | | 03/01/00 | 5.95 | 634.55 |
| | | 03/18/00 | 6.83 | 633.67 |
| | | 03/28/00 | 6.21 | 634.29 |
| PZ-1D | 640.67 | 10/01/99 | DRY | DRY |
| | | 10/08/99 | DRY | DRY |
| | | 10/30/99 | DRY | DRY |
| | | 11/20/99 | DRY | DRY |
| | | 12/01/99 | DRY | DRY |
| | | 12/11/99 | DRY | DRY |
| | | 12/29/99 | DRY | DRY |
| | | 01/14/00 | DRY | DRY |
| | | 02/01/00 | DRY | DRY |
| | | 02/15/00 | DRY | DRY |
| | | 03/01/00 | 6.10 | 634.57 |
| | | 03/18/00 | 7.00 | 633.67 |
| | | 03/28/00 | 7.94 | 632.73 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-1
SUMMARY OF MONITORING WELL GROUNDWATER ELEVATION DATA
OCTOBER 1999 - MARCH 2000
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Well ID | Top of Casing Elevation (ft) | Date | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|---------|------------------------------|----------|---------------------------|----------------------------|
| PZ-2S | 639.73 | 10/01/99 | DRY | DRY |
| | | 10/08/99 | DRY | DRY |
| | | 10/30/99 | DRY | DRY |
| | | 11/20/99 | DRY | DRY |
| | | 12/01/99 | DRY | DRY |
| | | 12/11/99 | DRY | DRY |
| | | 12/29/99 | DRY | DRY |
| | | 01/14/00 | DRY | DRY |
| | | 02/01/00 | DRY | DRY |
| | | 02/15/00 | DRY | DRY |
| | | 03/01/00 | 10.05 | 629.68 |
| | | 03/18/00 | 10.19 | 629.54 |
| | | 03/28/00 | 11.37 | 628.36 |
| PZ-2D | 640.01 | 10/01/99 | 20.05 | 619.96 |
| | | 10/08/99 | 20.06 | 619.95 |
| | | 10/30/99 | 20.35 | 619.66 |
| | | 11/20/99 | 20.68 | 619.33 |
| | | 12/01/99 | 19.88 | 620.13 |
| | | 12/11/99 | 20.02 | 619.99 |
| | | 12/29/99 | 19.58 | 620.43 |
| | | 01/14/00 | 18.87 | 621.14 |
| | | 02/01/00 | 19.62 | 620.39 |
| | | 02/15/00 | 19.65 | 620.36 |
| | | 03/01/00 | 11.48 | 628.53 |
| | | 03/18/00 | 11.48 | 628.53 |
| | | 03/28/00 | 12.58 | 627.43 |

NOTES

NM indicates water elevation not measured.

DRY indicates well did not contain groundwater.

**TABLE 3-2
SUMMARY OF EFFLUENT DISCHARGES TO POTW
GRIFFIN TECHNOLOGY FACILITY
FARMINGTON, NEW YORK**

| MONTH | DISCHARGE (GAL.) | TCE | 1,1,1-TCA | CONCENTRATIONS | | |
|----------------|---------------------|-----|-----------|----------------|------------|----------------|
| | | | | Cis-1,2-DCE | 2-BUTANONE | VINYL CHLORIDE |
| March 1997 | 320,150 | 610 | 14 | 6.5 | ND | ND |
| April 1997 | 362,132 | 240 | 5.8 | 6 | ND | ND |
| May 1997 | 235,601 | 360 | 9.8 | ND | ND | ND |
| June 1997 | 213,976 | 380 | 12 | 10 | ND | ND |
| July 1997 | 135,320 | 570 | 16 | 15 | ND | ND |
| August 1997 | 68,270 | 700 | 21 | 13 | 26.0 | ND |
| September 1997 | 70,218 | 810 | ND | ND | ND | ND |
| October 1997 | 90,717 | 880 | 18 | 10 | ND | ND |
| November 1997 | 93,914 | 690 | 17 | 12 | ND | ND |
| December 1997 | 210,268 | 420 | ND | ND | ND | ND |
| January 1998 | 456,551 | 250 | ND | ND | ND | ND |
| February 1998 | 191,493 | 180 | ND | ND | ND | ND |
| March 1998 | 387,910 | 200 | 5.4 | ND | ND | ND |
| April 1998 | 352,742 | 150 | ND | ND | ND | ND |
| May 1998 | 191,088 | 250 | ND | ND | ND | ND |
| June 1998 | 96,750 | 320 | 7.5 | ND | ND | ND |
| July 1998 | 270,973 | 200 | ND | ND | ND | ND |
| August 1998 | 68,147 | 400 | 13 | 12 | ND | ND |

Notes:

1. All results expressed in micrograms per liter ($\mu\text{g/l}$).
2. No other VOC compounds detected.
3. ND indicates not detected.

**TABLE 3-2
SUMMARY OF EFFLUENT DISCHARGES TO POTW
GRIFFIN TECHNOLOGY FACILITY
FARMINGTON, NEW YORK**

| MONTH | DISCHARGE (GAL.) | CONCENTRATIONS | | | | |
|----------------|---------------------|----------------|-----------|-------------|------------|----------------|
| | | TCE | 1,1,1-TCA | Cis-1,2-DCE | 2-BUTANONE | VINYL CHLORIDE |
| September 1998 | 44,030 | 510 | 14 | 15 | ND | ND |
| October 1998 | 66,160 | 400 | ND | ND | ND | ND |
| November 1998 | 44,150 | 440 | 12 | ND | ND | ND |
| December 1998 | 43,580 | 590 | 22 | 19 | ND | ND |
| January 1999 | 33,531 | 660 | ND | ND | ND | ND |
| February 1999 | 144,720 | 230 | ND | ND | ND | ND |
| March 1999 | 139,410 | 140 | ND | 12.0 | ND | 17 |
| April 1999 | 188,610 | 170 | ND | ND | ND | ND |
| May 1999 | 199,541 | 250 | ND | ND | ND | ND |
| June 1999 | 75,780 | 370 | ND | ND | ND | ND |
| July 1999 | 72,359 | 510 | 14 | ND | ND | ND |
| August 1999 | 55,841 | 490 | 15 | 7.5 | ND | ND |
| September 1999 | 64,019 | 450 | ND | ND | ND | ND |
| October 1999 | 64,350 | 500 | ND | ND | ND | ND |
| November 1999 | 58,261 | 450 | ND | ND | ND | ND |
| December 1999 | 75,250 | 420 | ND | ND | ND | ND |
| January 2000 | 107,879 | 410 | 10 | ND | ND | ND |
| February 2000 | 149,221 | 460 | 12 | 5.6 | ND | ND |
| March 2000 | 333,840 | 310 | ND | ND | ND | ND |

Notes:

1. All results expressed in micrograms per liter ($\mu\text{g/l}$).
2. No other VOC compounds detected.
3. ND indicates not detected.

URS Greiner Woodward Clyde

**TABLE 3-3
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Monitoring Well No. | Sample Date | TCE | 1,1,1-TCA | CIS-1,2-DCE | XYLENES | 1,1-DCE | ACETONE | VINYL CHLORIDE |
|--|-------------|--------|-----------|-------------|---------|---------|---------|----------------|
| MW-01 | 12/19/94 | ND | ND | ND | ND | ND | ND | ND |
| | 05/21/96 | ND | ND | ND | ND | ND | ND | ND |
| | 08/13/97 | ND | ND | ND | ND | ND | ND | ND |
| | 03/18/98 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | ND | ND | ND | ND | ND | ND | ND |
| | 03/18/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | ND | ND | ND | ND | ND | ND | ND |
| | 03/28/00 | ND | ND | ND | ND | ND | ND | ND |
| MW-02S | 12/19/94 | 850 | ND | ND | ND | ND | ND | ND |
| | 05/21/96 | 30 | ND | 1 | ND | ND | ND | ND |
| | 08/13/97 | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| | 03/18/98 | 17,000 | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | 18,000 | 210 | ND | ND | ND | ND | ND |
| | 03/18/99 | 28 | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| | 03/28/00 | 6 | ND | ND | ND | ND | ND | ND |
| MW-02D | 08/13/97 | 450 | 23 | 42 | ND | ND | ND | ND |
| | 03/18/98 | 740 | 16 | 28 | ND | ND | ND | ND |
| | 09/02/98 | 680 | 25 | 39 | ND | ND | ND | ND |
| | 03/18/99 | 190 | 5 | 6 | ND | ND | ND | ND |
| Monitoring well converted to recovery well RW-4. | | | | | | | | |
| MW-03 | 12/19/94 | 190 | ND | ND | ND | ND | ND | ND |
| | 05/21/96 | 120 | ND | 2 | ND | ND | ND | ND |
| | 08/13/97 | 150 | ND | 2 | ND | ND | ND | ND |
| | 03/18/98 | 88 | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | 110 | ND | ND | ND | ND | ND | ND |
| | 03/18/99 | 45 | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | 170 | ND | ND | ND | ND | ND | ND |
| | 03/28/00 | 93 | ND | ND | ND | ND | ND | ND |

Notes:

1. 12/19/94 data collected by Blasland, Bouck & Lee.
2. All results expressed in micrograms per liter (µg/l).
3. No other VOC compounds detected at method detection limit.
4. ND indicates not detected.
5. NS indicates no sample collected; unable to locate or access well.
6. DRY indicates well not sampled due to lack of water.

TABLE 3-3
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK

| Monitoring Well No. | Sample Date | TCE | 1,1,1-TCA | CIS-1,2-DCE | XYLENES | 1,1-DCE | ACETONE | VINYL CHLORIDE |
|---------------------|-------------|-------|-----------|-------------|---------|---------|---------|----------------|
| MW-04 | 12/19/94 | 710 | 6.7 | 23 | ND | ND | ND | ND |
| | 05/21/96 | 16 | ND | 2 | ND | ND | ND | ND |
| | 08/13/97 | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| | 03/18/98 | 59 | ND | 2 | ND | ND | ND | ND |
| | 09/02/98 | 450 | 7 | 20 | ND | ND | ND | ND |
| | 03/18/99 | 58 | ND | 1 | ND | ND | ND | ND |
| | 09/02/99 | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| | 03/28/00 | 9 | ND | ND | ND | ND | ND | ND |
| Duplicate | 03/28/00 | 9 | ND | ND | ND | ND | ND | ND |
| MW-05S | 12/19/94 | 580 | 15 | ND | ND | ND | ND | ND |
| | 05/21/96 | 350 | 16 | ND | ND | ND | ND | ND |
| | 08/13/97 | 760 | 31 | 4 | ND | ND | ND | ND |
| | 03/18/98 | 120 | 4 | ND | 1 | ND | ND | ND |
| | 09/02/98 | 390 | 14 | ND | ND | ND | ND | ND |
| | 03/18/99 | 95 | 3 | ND | ND | ND | ND | ND |
| | 09/02/99 | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| | 03/28/00 | 140 | 4 | ND | ND | ND | ND | ND |
| MW-05D | 12/19/94 | 820 | 23 | ND | ND | ND | ND | ND |
| | 05/21/96 | 1,000 | 48 | 8 | ND | ND | ND | ND |
| | 08/13/97 | 250 | 7 | 2 | ND | ND | ND | ND |
| | 03/18/98 | 250 | 7 | ND | ND | ND | ND | ND |
| | 09/02/98 | 300 | 8 | 2 | ND | ND | ND | ND |
| | 03/18/99 | 200 | 7 | 2 | ND | ND | ND | ND |
| | 09/02/99 | 220 | 6 | 2 | ND | ND | ND | ND |
| | 03/28/00 | 190 | 4 | ND | ND | ND | ND | ND |
| MW-06S | 12/19/94 | 270 | 7.8 | ND | ND | ND | ND | ND |
| | 05/21/96 | ND | 2 | ND | ND | ND | ND | ND |
| | 08/13/97 | 140 | 9 | 3 | ND | ND | ND | ND |
| | 03/18/98 | 5 | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | 140 | 8 | 2 | ND | ND | ND | ND |
| | 03/17/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | 110 | 6 | 4 | ND | ND | ND | ND |
| | 03/28/00 | 3 | ND | ND | ND | ND | ND | ND |

Notes:

1. 12/19/94 data collected by Blasland, Bouck & Lee.
2. All results expressed in micrograms per liter (µg/l).
3. No other VOC compounds detected at method detection limit.
4. ND indicates not detected.
5. NS indicates no sample collected; unable to locate or access well.
6. DRY indicates well not sampled due to lack of water.

**TABLE 3-3
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Monitoring Well No. | Sample Date | TCE | 1,1,1-TCA | CIS-1,2-DCE | XYLENES | 1,1-DCE | ACETONE | VINYL CHLORIDE |
|---------------------|-----------------------------|-----|-----------|-------------|---------|---------|---------|----------------|
| MW-06D | 12/19/94 | 190 | 7.5 | ND | ND | ND | ND | ND |
| | 05/21/96 | 240 | 10 | ND | ND | ND | ND | ND |
| | 08/13/97 | 150 | 10 | 2 | ND | ND | ND | ND |
| | 03/18/98 | 6 | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | 140 | 8 | 2 | ND | ND | ND | ND |
| | 03/17/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | 110 | 7 | 2 | ND | ND | ND | ND |
| | 03/28/00 | 89 | 5 | 1 | ND | ND | ND | ND |
| MW-07S | 12/19/94 | 250 | 6.6 | 8 | ND | ND | ND | ND |
| | 05/21/96 | 310 | 7 | 6 | ND | ND | ND | ND |
| | 08/13/97 | 250 | 6 | 6 | ND | ND | ND | ND |
| | 03/18/98 | 3 | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | 220 | 5 | 4 | ND | ND | ND | ND |
| | 03/17/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | 220 | 4 | 4 | ND | ND | ND | ND |
| | 03/28/00 | 210 | 4 | 3 | ND | ND | ND | ND |
| MW-07D | 12/19/94 | 260 | ND | 7 | ND | ND | ND | ND |
| | 05/21/96 | 290 | 4 | 12 | ND | ND | ND | ND |
| | 08/13/97 | 180 | 2 | 13 | ND | ND | ND | ND |
| | 03/18/98 | 150 | 2 | 15 | ND | ND | ND | ND |
| | 09/02/98 | 200 | 2 | 15 | ND | ND | ND | ND |
| | 03/17/99 | 100 | ND | 8 | ND | ND | ND | ND |
| | 09/02/99 | 180 | 2 | 14 | ND | ND | ND | ND |
| | 03/28/00 | 130 | ND | 19 | ND | ND | ND | 4 |
| MW-08S | 12/19/94 Well abandoned. | 29 | ND | ND | ND | ND | ND | ND |
| MW-08D | 12/19/94 Well abandoned. | 55 | ND | ND | ND | ND | ND | ND |

Notes:

1. 12/19/94 data collected by Blasland, Bouck & Lee.
2. All results expressed in micrograms per liter (µg/l).
3. No other VOC compounds detected at method detection limit.
4. ND indicates not detected.
5. NS indicates no sample collected; unable to locate or access well.
6. DRY indicates well not sampled due to lack of water.

**TABLE 3-3
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Monitoring Well No. | Sample Date | TCE | 1,1,1-TCA | CIS-1,2-DCE | XYLENES | 1,1-DCE | ACETONE | VINYL CHLORIDE |
|---------------------|-------------|-----|-----------|-------------|---------|---------|---------|----------------|
| MW-09S | 12/19/94 | ND | ND | ND | ND | ND | ND | ND |
| | 05/21/96 | ND | ND | ND | ND | ND | ND | ND |
| | 08/13/97 | 2 | ND | ND | ND | ND | ND | ND |
| | 03/18/98 | 3 | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | NS | NS | NS | NS | NS | NS | NS |
| | 03/18/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | ND | ND | ND | ND | ND | ND | ND |
| | 03/28/00 | ND | ND | ND | ND | ND | ND | ND |
| MW-09D | 12/19/94 | ND | ND | ND | ND | ND | ND | ND |
| | 05/21/96 | ND | ND | ND | ND | ND | ND | ND |
| | 08/13/97 | ND | ND | ND | ND | ND | ND | ND |
| | 03/18/98 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | NS | NS | NS | NS | NS | NS | NS |
| | 03/18/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | ND | ND | ND | ND | ND | ND | ND |
| | 03/28/00 | ND | ND | ND | ND | ND | ND | ND |
| MW-10S | 12/19/94 | 7.8 | ND | ND | ND | ND | ND | ND |
| | 05/29/96 | 30 | 1 | ND | ND | ND | ND | ND |
| | 08/13/97 | 15 | ND | ND | ND | ND | ND | ND |
| | 03/18/98 | NS | NS | NS | NS | NS | NS | NS |
| | 09/02/98 | 8 | ND | ND | ND | ND | ND | ND |
| | 03/18/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | 7 | ND | ND | ND | ND | ND | ND |
| | 03/28/00 | 1 | ND | ND | ND | ND | ND | ND |
| MW-10D | 12/19/94 | 8.2 | ND | ND | ND | ND | ND | ND |
| | 05/29/96 | 8 | ND | ND | ND | ND | ND | ND |
| | 08/13/97 | 15 | ND | ND | ND | ND | ND | ND |
| | 03/18/98 | NS | NS | NS | NS | NS | NS | NS |
| | 09/02/98 | 9 | ND | ND | ND | ND | ND | ND |
| | 03/18/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | 7 | ND | ND | ND | ND | ND | ND |
| | 03/28/00 | 3 | ND | ND | ND | ND | ND | ND |

Notes:

1. 12/19/94 data collected by Blasland, Bouck & Lee.
2. All results expressed in micrograms per liter (µg/l).
3. No other VOC compounds detected at method detection limit.
4. ND indicates not detected.
5. NS indicates no sample collected; unable to locate or access well.
6. DRY indicates well not sampled due to lack of water.

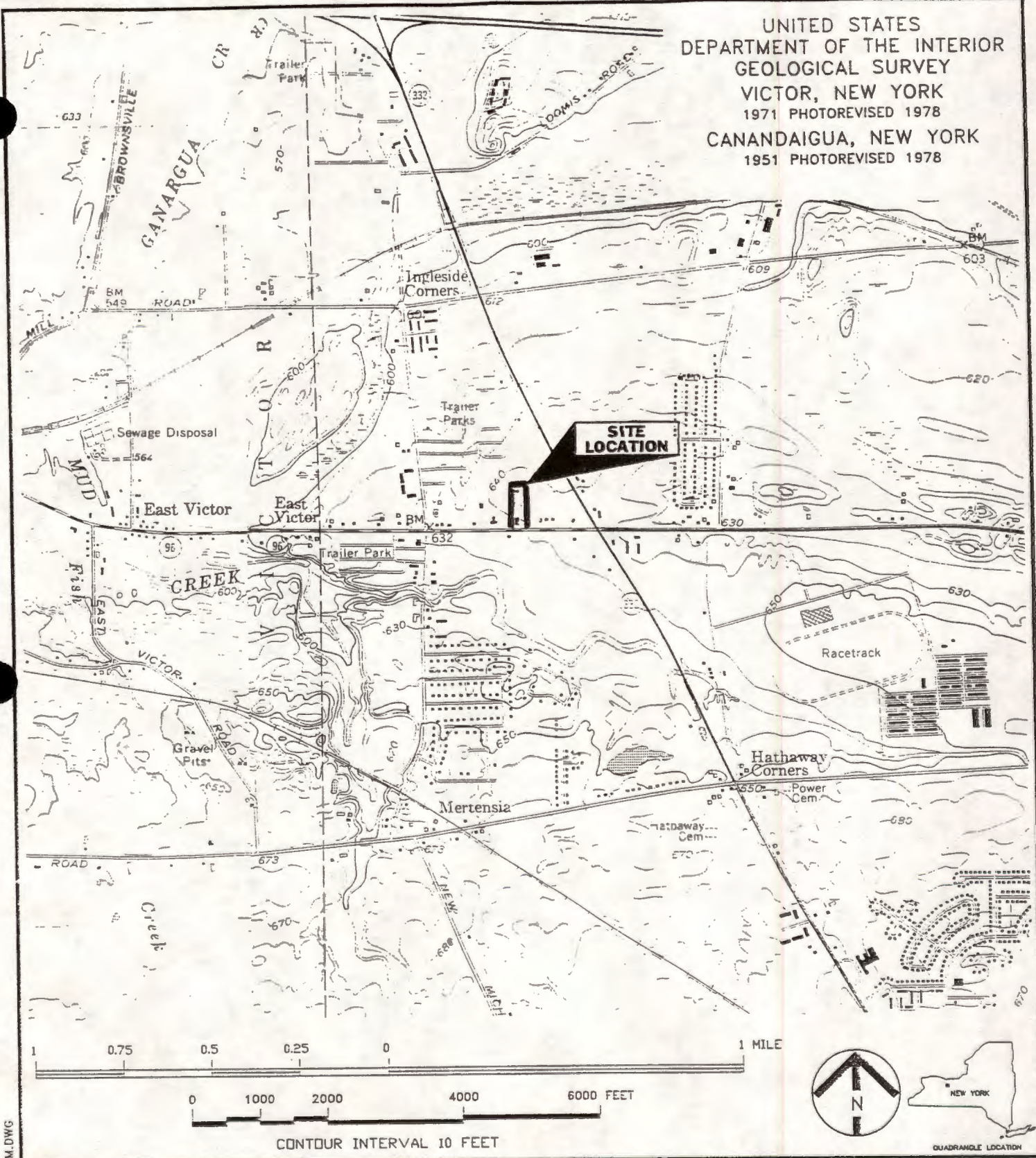
**TABLE 3-3
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK**

| Monitoring Well No. | Sample Date | TCE | 1,1,1-TCA | CIS-1,2-DCE | XYLENES | 1,1-DCE | ACETONE | VINYL CHLORIDE |
|---------------------|-------------|-------|-----------|-------------|---------|---------|---------|----------------|
| MW-11D | 04/11/96 | ND | ND | ND | ND | ND | ND | ND |
| | 05/21/96 | ND | ND | ND | ND | ND | ND | ND |
| | 08/13/97 | ND | ND | ND | ND | ND | ND | ND |
| | 03/18/98 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/98 | ND | ND | ND | ND | ND | ND | ND |
| | 03/18/99 | ND | ND | ND | ND | ND | ND | ND |
| | 09/02/99 | ND | ND | ND | ND | ND | ND | ND |
| | 03/28/00 | ND | ND | ND | ND | ND | ND | ND |
| MW-13D | 04/11/96 | 610 | 5 | 4 | ND | ND | ND | ND |
| | 05/21/96 | 190 | 5 | 4 | ND | ND | ND | ND |
| | 08/13/97 | 160 | 4 | 4 | ND | ND | ND | ND |
| | 03/18/98 | 110 | 2 | ND | ND | ND | ND | ND |
| | 09/02/98 | 140 | 3 | 2 | ND | ND | ND | ND |
| | 03/17/99 | 120 | 2 | 2 | ND | ND | ND | ND |
| | 09/02/99 | 140 | 3 | 2 | ND | ND | ND | ND |
| | 03/28/00 | 85 | 2 | ND | ND | ND | ND | ND |
| RW-1 | 03/28/00 | 140 | 3 | 3 | ND | ND | ND | ND |
| RW-2 | 03/28/00 | 100 | 2 | ND | ND | ND | ND | ND |
| RW-3 | 03/28/00 | 170 | 4 | ND | ND | ND | ND | ND |
| RW-4 | 03/28/00 | 1,000 | 22 | 11 | ND | 1 | 5 | ND |

Notes:

1. 12/19/94 data collected by Blasland, Bouck & Lee.
2. All results expressed in micrograms per liter (µg/l).
3. No other VOC compounds detected at method detection limit.
4. ND indicates not detected.
5. NS indicates no sample collected; unable to locate or access well.
6. DRY indicates well not sampled due to lack of water.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
 VICTOR, NEW YORK
 1971 PHOTOREVISED 1978
 CANANDAIGUA, NEW YORK
 1951 PHOTOREVISED 1978

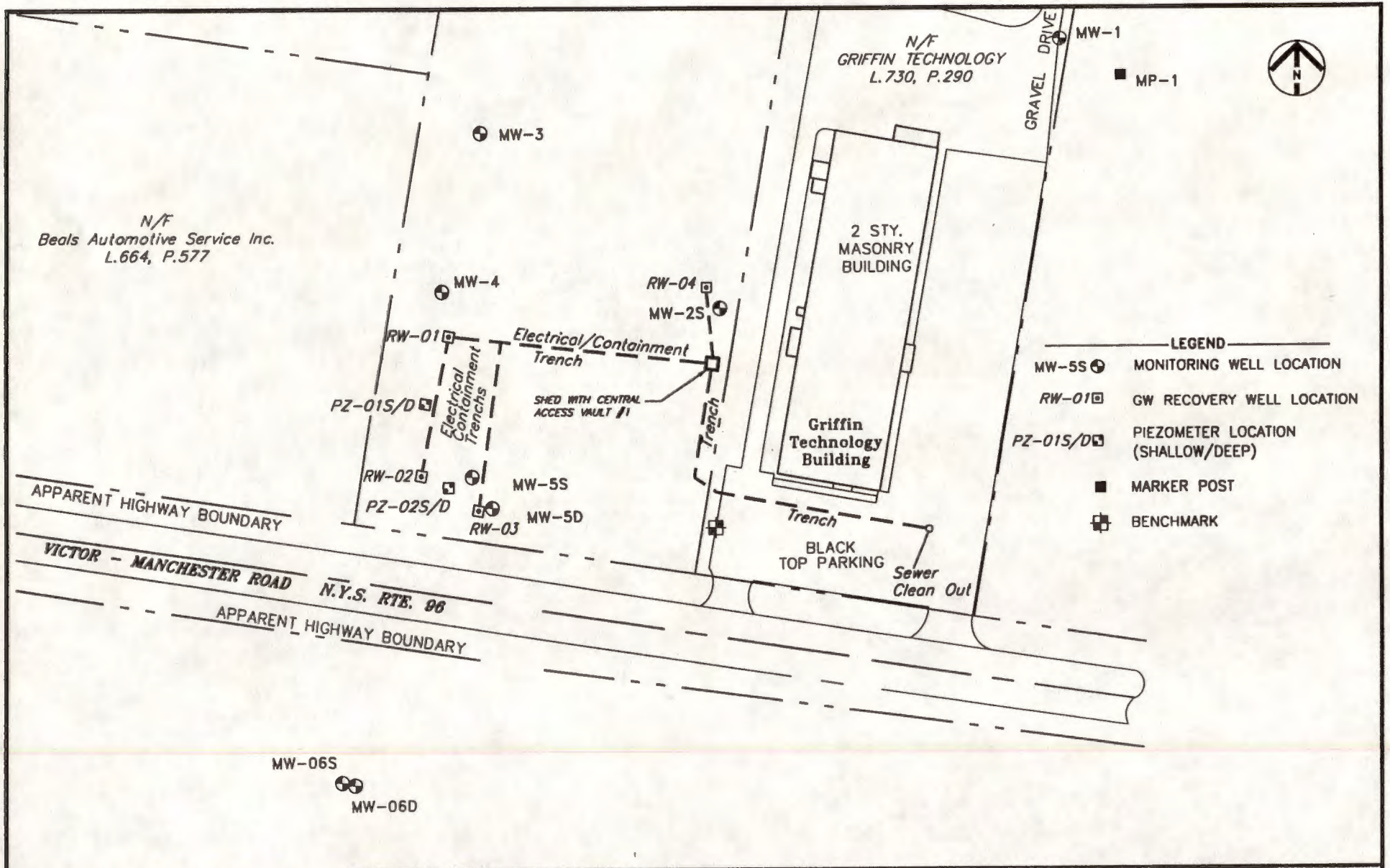


GENERAL LOCATION MAP
 FORMER GRIFFIN TECHNOLOGY INC. - ONTARIO COUNTY - FARMINGTON, NEW YORK

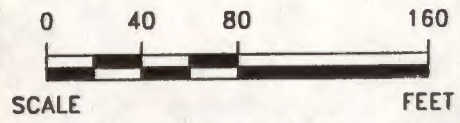
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| DRAWN BY: MMS | CHECKED BY: MTS | PROJECT NUMBER: 6E06191 | DATE: 6-18-99 | FIGURE NO: 1-1 |
|---------------|-----------------|-------------------------|---------------|----------------|

URS Greiner Woodward Clyde

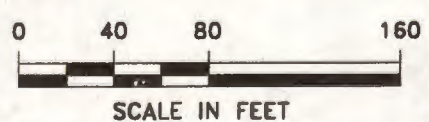
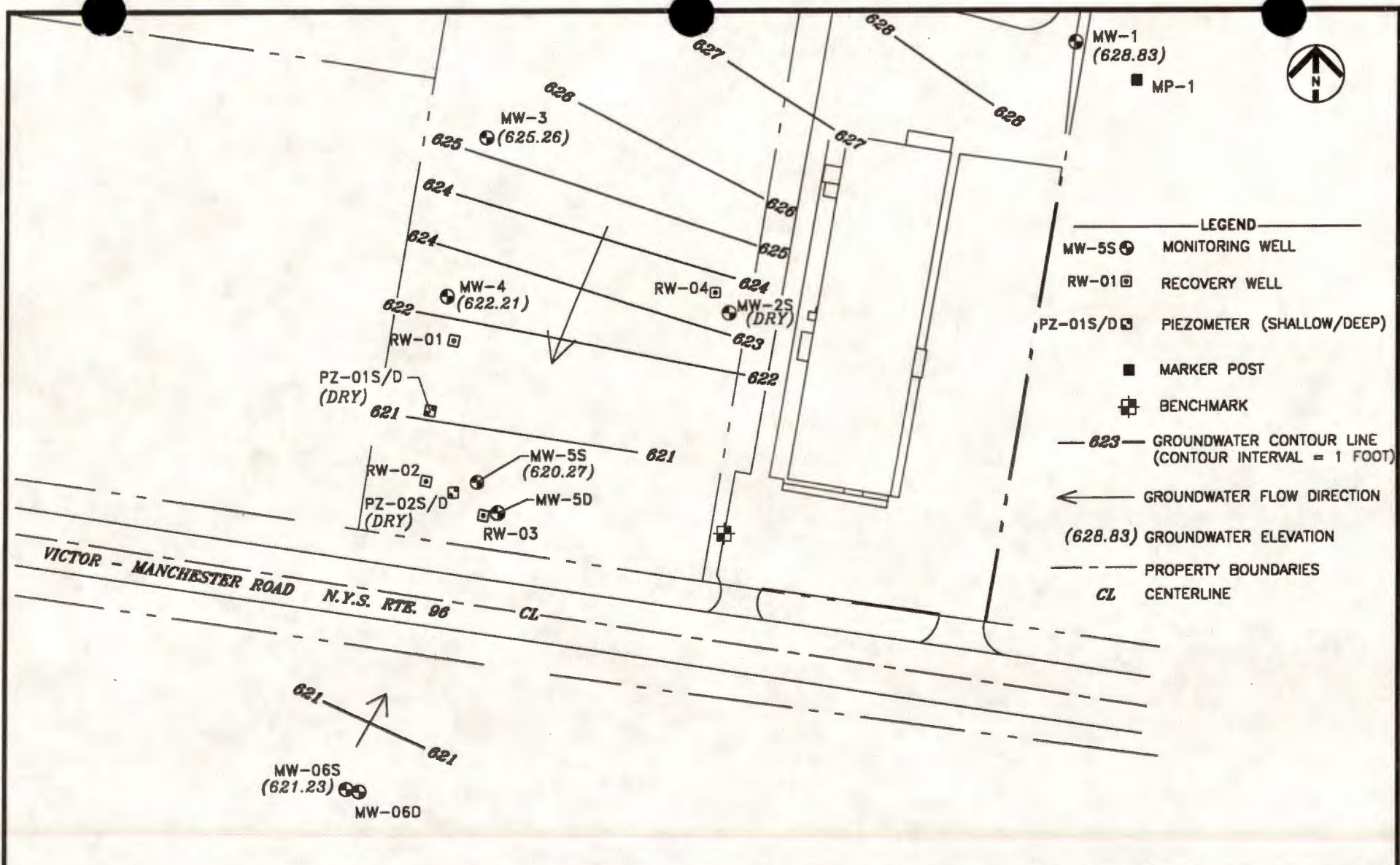
06191\GLM.DWG



- LEGEND
- MW-5S ⊕ MONITORING WELL LOCATION
 - RW-01 □ GW RECOVERY WELL LOCATION
 - PZ-01S/D □ PIEZOMETER LOCATION (SHALLOW/DEEP)
 - MARKER POST
 - ⊕ BENCHMARK

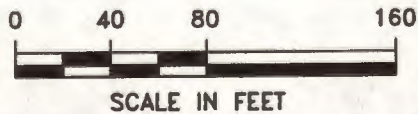
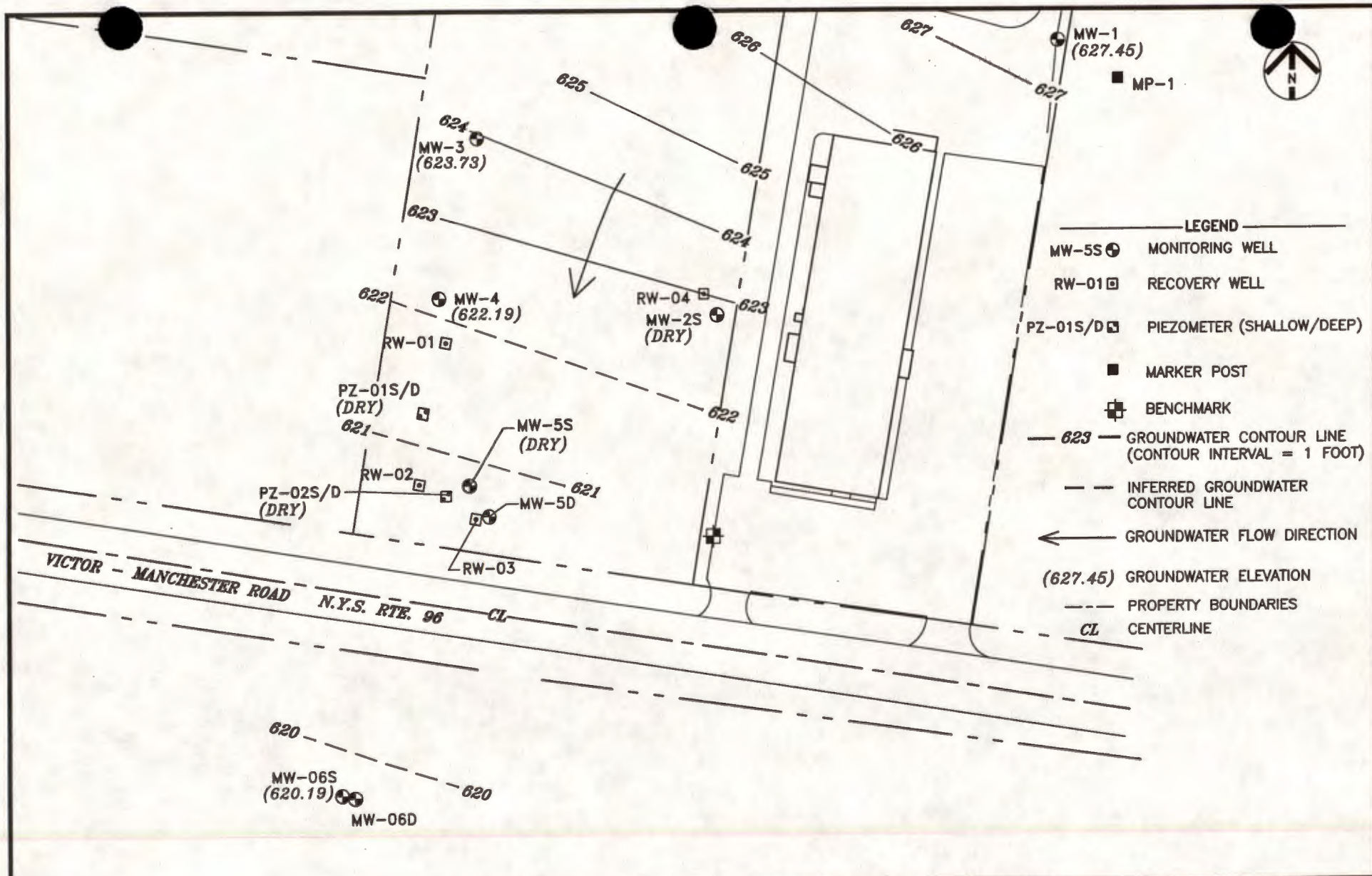


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|---|-----------------|-------------------------|----------------|
| IRM SYSTEM LAYOUT | | | |
| GRIFFIN TECHNOLOGY, INC. FARMINGTON, NEW YORK | | | |
| DRAWN BY: MMS | CHECKED BY: MTS | PROJECT NUMBER: 6E06191 | DATE: 9-27-99 |
| | | | FIGURE NO: 2-1 |



OVERBURDEN GROUNDWATER CONTOUR MAP
OCTOBER 8, 1999
 GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK

| | | | | |
|---------------|-----------------|-------------------------|----------------|----------------|
| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 03-06-00 | FIGURE NO: 3-1 |
|---------------|-----------------|-------------------------|----------------|----------------|



OVERBURDEN GROUNDWATER CONTOUR MAP

NOVEMBER 20, 1999

GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK

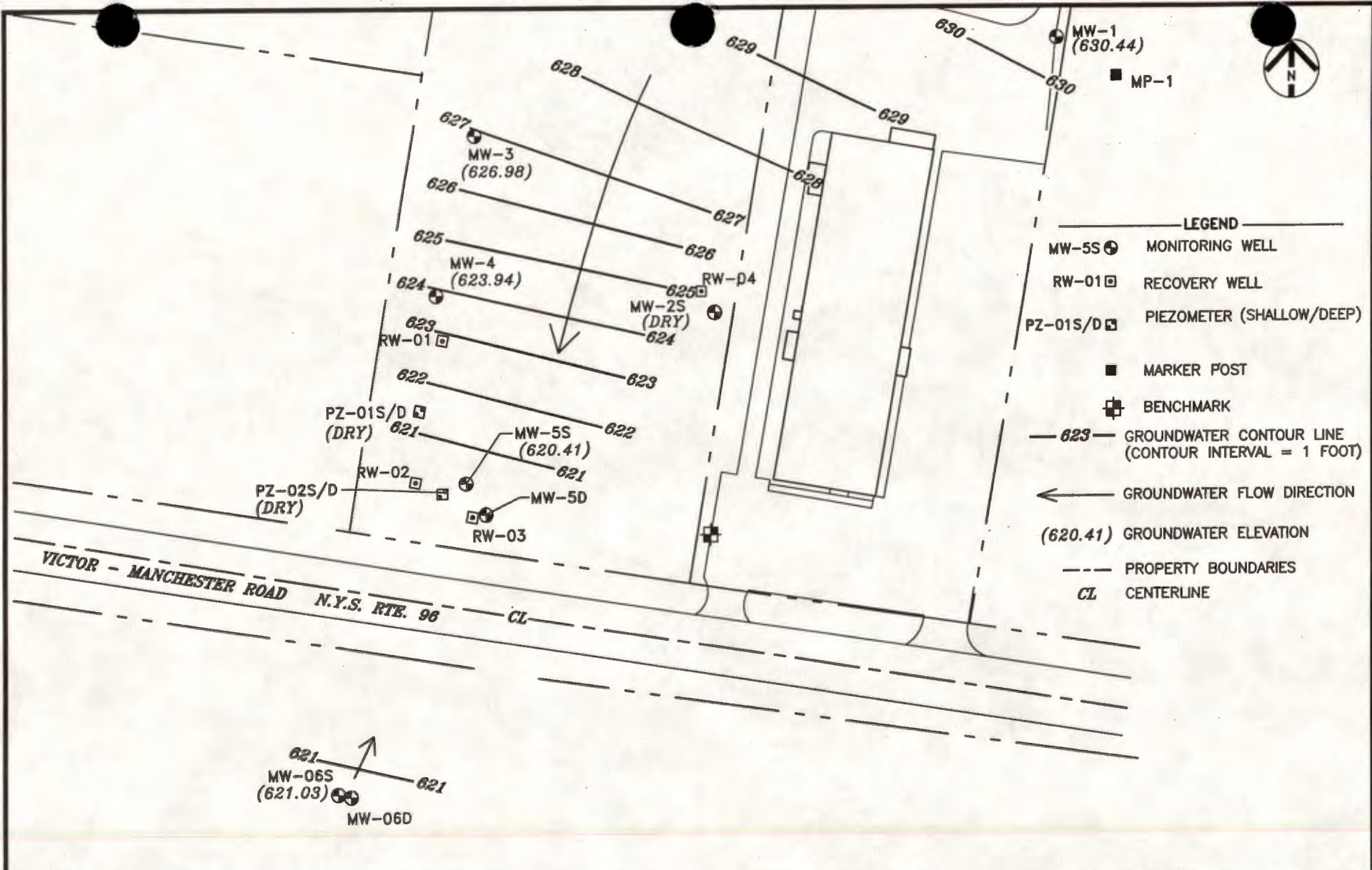
DRAWN BY: ERB

CHECKED BY: LMH

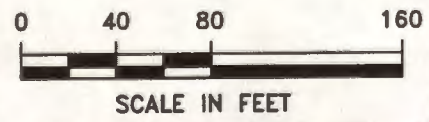
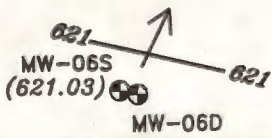
PROJECT NUMBER: 6E06191

DATE: 03-06-00

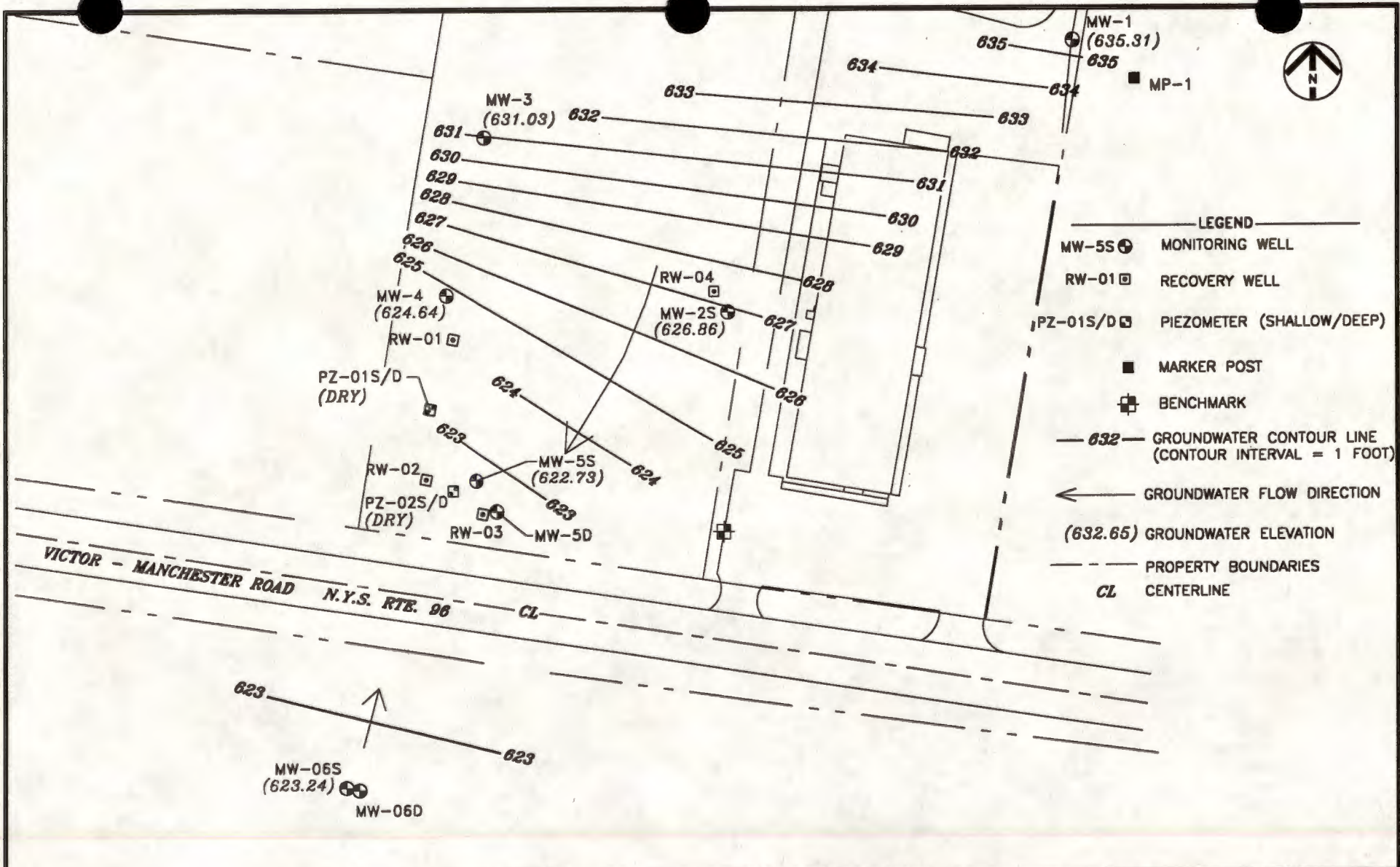
FIGURE NO: 3-2



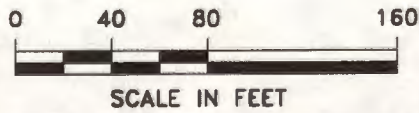
- LEGEND**
- MW-5S ⊕ MONITORING WELL
 - RW-01 □ RECOVERY WELL
 - PZ-01S/D □ PIEZOMETER (SHALLOW/DEEP)
 - MARKER POST
 - ⊕ BENCHMARK
 - 623 — GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 1 FOOT)
 - ← GROUNDWATER FLOW DIRECTION
 - (620.41) GROUNDWATER ELEVATION
 - - - PROPERTY BOUNDARIES
 - CL CENTERLINE



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| OVERBURDEN GROUNDWATER CONTOUR MAP | | | |
| DECEMBER 11, 1999 | | | |
| GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK | | | |
| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 03-07-00 |
| | | | FIGURE NO: 3-3 |



- LEGEND
- MW-5S ⊕ MONITORING WELL
 - RW-01 □ RECOVERY WELL
 - PZ-01S/D □ PIEZOMETER (SHALLOW/DEEP)
 - MARKER POST
 - ⊕ BENCHMARK
 - 632 — GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 1 FOOT)
 - ← GROUNDWATER FLOW DIRECTION
 - (632.65) GROUNDWATER ELEVATION
 - - - PROPERTY BOUNDARIES
 - CL CENTERLINE

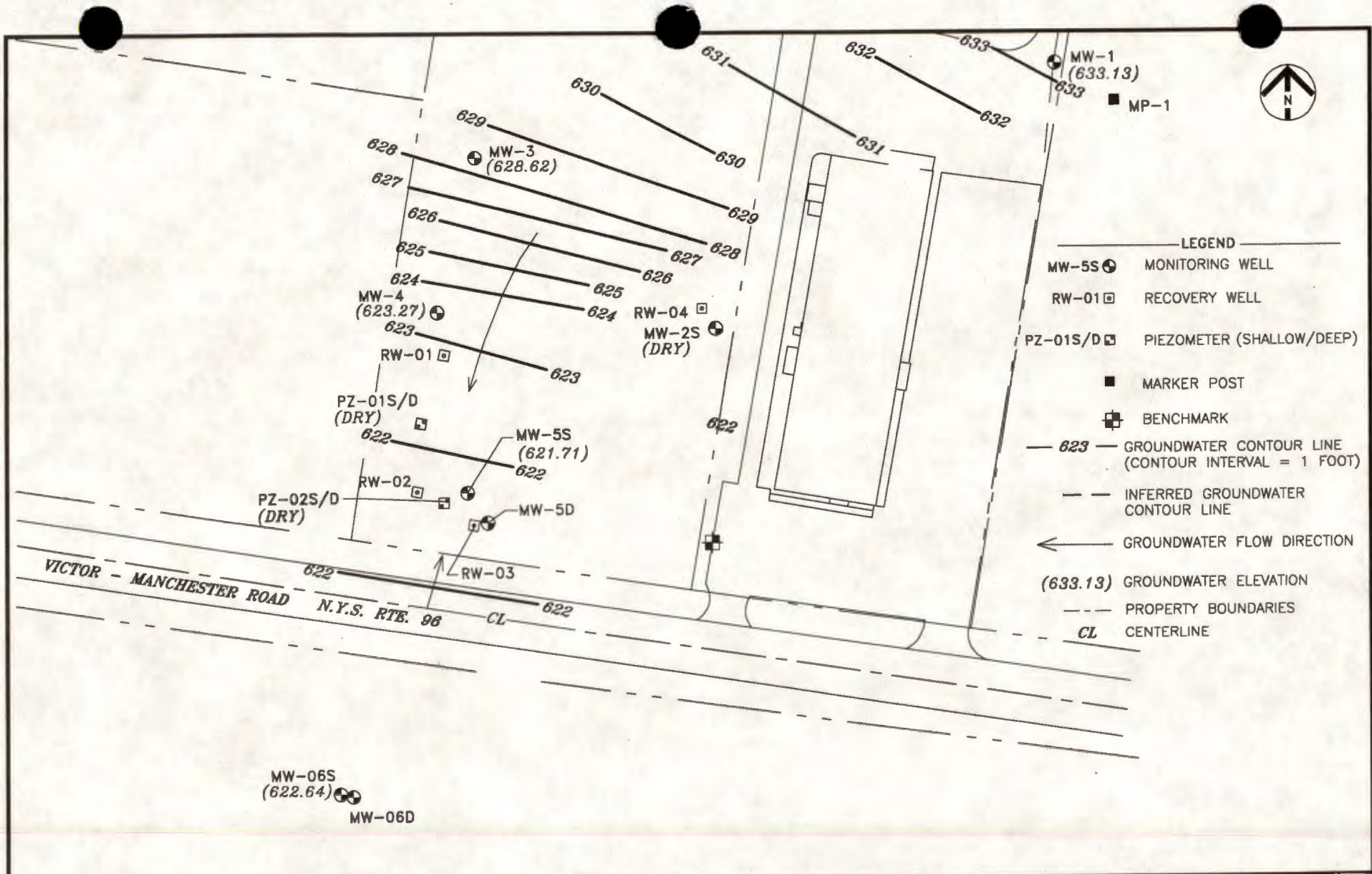


OVERBURDEN GROUNDWATER CONTOUR MAP
JANUARY 14, 2000
GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK

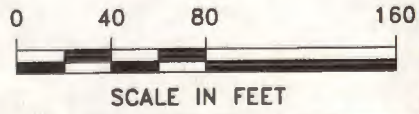
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| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 04-27-00 |
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URS Greiner Woodward Clyde



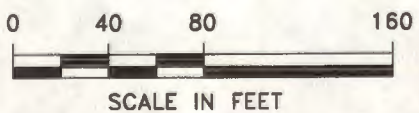
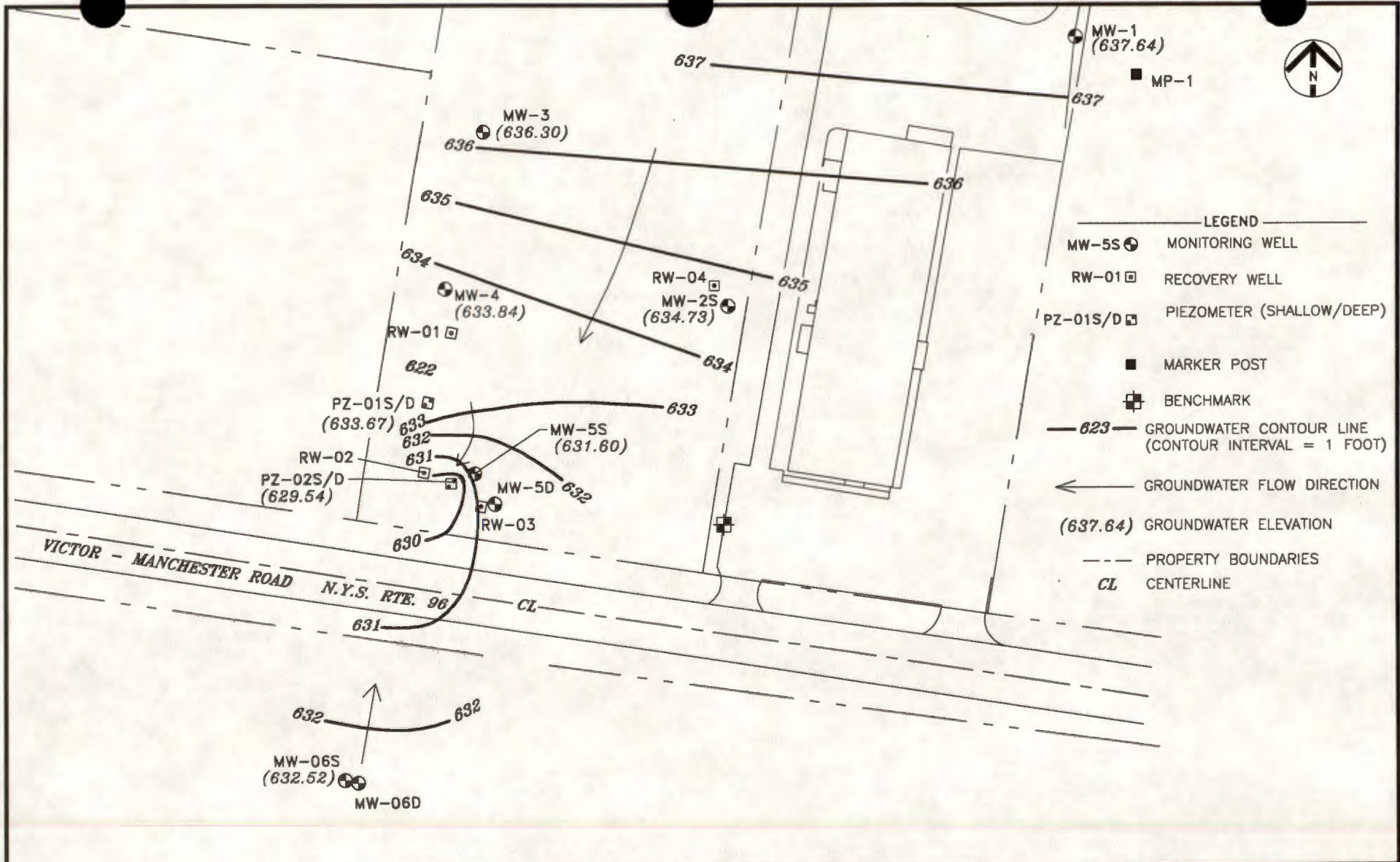
- LEGEND**
- MW-5S ⊕ MONITORING WELL
 - RW-01 ⊞ RECOVERY WELL
 - PZ-01S/D ⊞ PIEZOMETER (SHALLOW/DEEP)
 - MARKER POST
 - ⊕ BENCHMARK
 - 623 — GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 1 FOOT)
 - - - INFERRED GROUNDWATER CONTOUR LINE
 - ← GROUNDWATER FLOW DIRECTION
 - (633.13) GROUNDWATER ELEVATION
 - - - PROPERTY BOUNDARIES
 - CL CENTERLINE



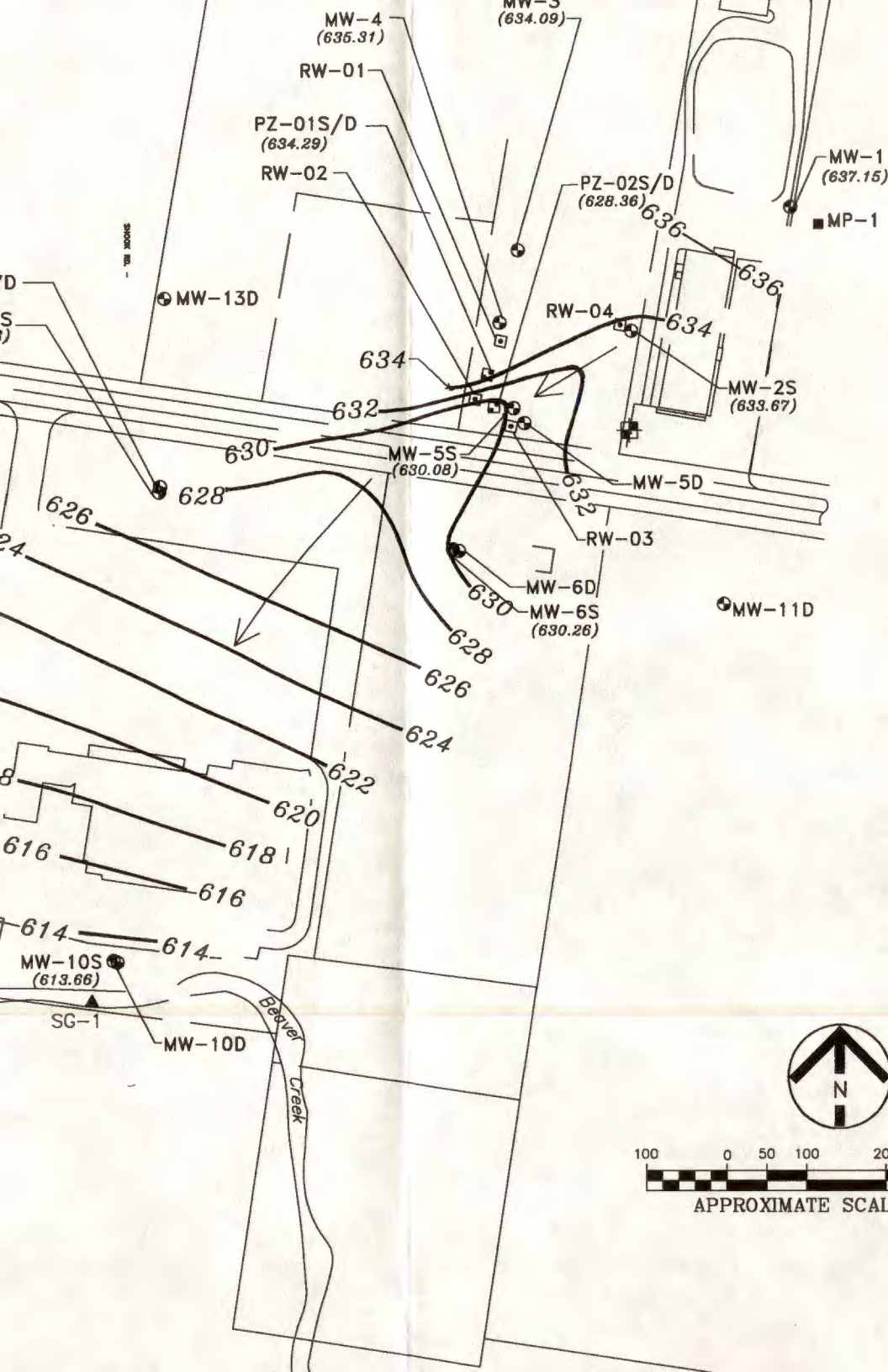
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| OVERBURDEN GROUNDWATER CONTOUR MAP | | | |
| FEBRUARY 15, 2000 | | | |
| GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK | | | |
| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 6/15/00 |
| | | | FIGURE NO: 3-5 |

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URS Greiner Woodward Clyde



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| OVERBURDEN GROUNDWATER CONTOUR MAP MARCH 18, 2000 GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK | | | |
| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 6/15/00 |
| | | | FIGURE NO: 3-6 |



- RW-01 □ RECOVERY WELL
- PZ-01S/D □ PIEZOMETER (SHALLOW/DEEP)
- ▲ STAFF GAUGE
- MARKER POST
- ⊠ BENCHMARK
- 626 — GROUNDWATER CONTOUR LINE
(CONTOUR INTERVAL = 2 FOOT)
- ← GROUNDWATER FLOW DIRECTION
- (637.15) GROUNDWATER ELEVATION

References:

- 1.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "LANDS OF R.D. PRODUCTS INC." LAST DATED JUNE 17, 1983. JOB #83138.
- 2.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "GRIFFIN TECHNOLOGY 6132 VICTOR-MANCHESTER ROAD, SOIL BORINGS & MONITORING WELLS" LAST DATED JUNE 19, 1991. JOB #911767.
- 3.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "MAP SHOWING LANDS OF JAMES V. ALAIMO - ANTHONY S. ALAIMO, M.D. - STEPHEN L. ALAIMO, M.D. - SAMUEL R. ALAIMO & JOSEPH W. ALAIMO ESTATE TO BE CONVEYED" LAST DATED AUGUST 25 1993. JOB #932113.
- 4.) MAP PREPARED BY BLASLAND & BOUCK ENGINEERS, P.C. TITLED "GRIFFIN TECHNOLOGY INC. VICTOR, NEW YORK OFF-SITE GROUND-WATER EVALUATION PROGRAM - PROPOSED MONITORING WELL LOCATION" LAST DATED JULY 1993.
- 5.) MAP PREPARED BY CRANDALL SURVEYORS, TITLED "GRIFFIN TECHNOLOGY INC. - ON - SITE / OFF - SITE GROUND WATER EVALUATION PROGRAM - PART OF GRIFFIN TECHNOLOGY PROPERTY NORTH OF N.Y.S. ROUTE 96 & JOHN W. & JANE A. WADE PROPERTY SOUTH OF N.Y.S. ROUTE 96. LAST DATED 12-22-1994. JOB #942296

URS Greiner Woodward Clyde

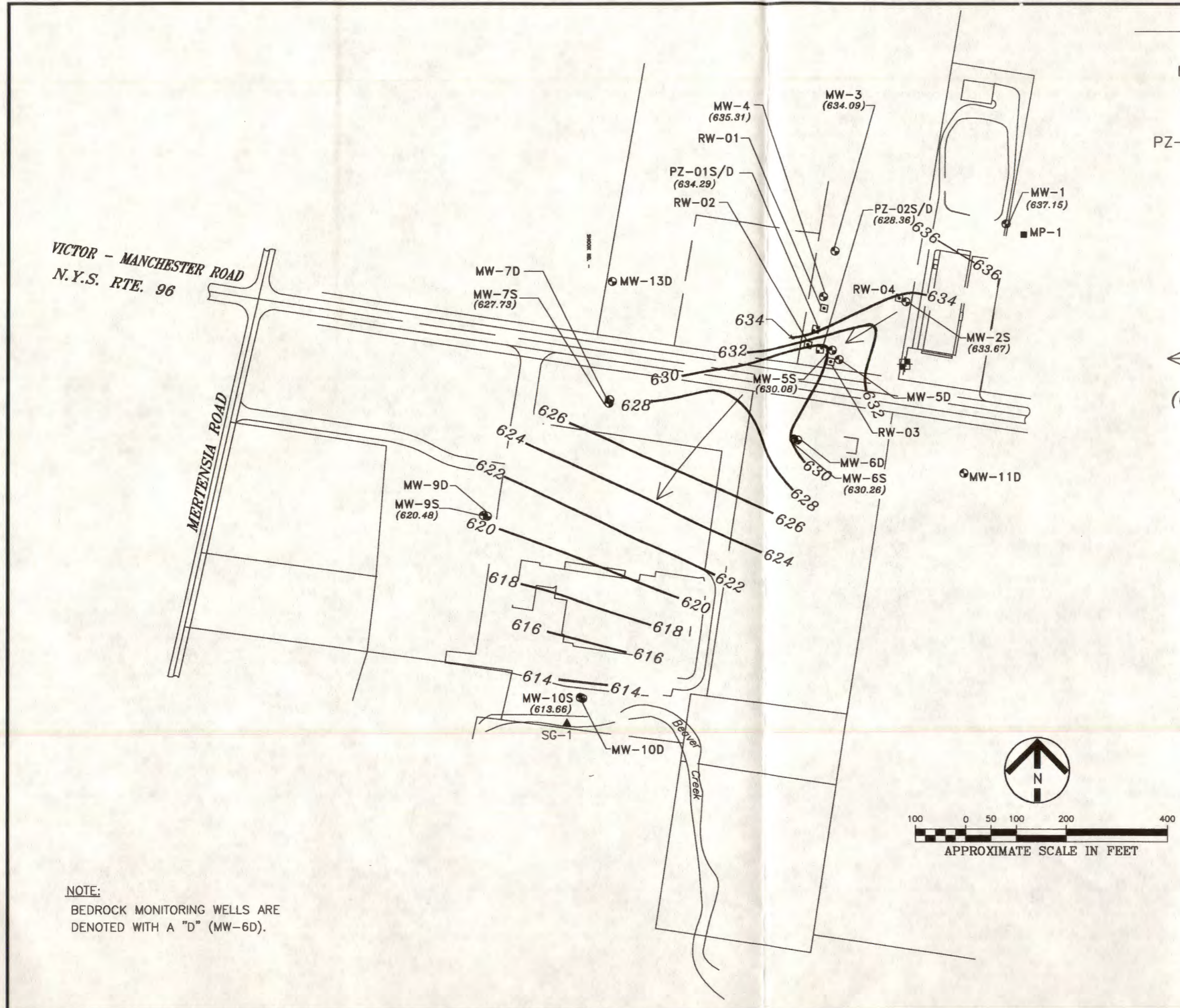
30775 Bainbridge Road, Suite 200
Solon, Ohio 44139

CLIENT: DIEBOLD, INC.

LOCATION: GRIFFIN TECHNOLOGY, INC., NEW YORK

**OVERBURDEN GROUNDWATER
CONTOUR MAP
MARCH 28, 2000**

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LEGEND

- MW-5S ● MONITORING WELL
- RW-01 □ RECOVERY WELL
- PZ-01S/D □ PIEZOMETER (SHALLOW/DEEP)
- ▲ STAFF GAUGE
- MARKER POST
- ⊕ BENCHMARK
- 626 — GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 2 FOOT)
- ← GROUNDWATER FLOW DIRECTION
- (637.15) GROUNDWATER ELEVATION

References:

- 1.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "LANDS OF R.D. PRODUCTS INC." LAST DATED JUNE 17, 1983. JOB #83138.
- 2.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "GRIFFIN TECHNOLOGY 6132 VICTOR-MANCHESTER ROAD, SOIL BORINGS & MONITORING WELLS" LAST DATED JUNE 19, 1991. JOB #911767.
- 3.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "MAP SHOWING LANDS OF JAMES V. ALAIMO - ANTHONY S. ALAIMO, M.D. - STEPHEN L. ALAIMO, M.D. - SAMUEL R. ALAIMO & JOSEPH W. ALAIMO ESTATE TO BE CONVEYED" LAST DATED AUGUST 25 1993. JOB #932113.
- 4.) MAP PREPARED BY BLASLAND & BOUCK ENGINEERS, P.C. TITLED "GRIFFIN TECHNOLOGY INC. VICTOR, NEW YORK OFF-SITE GROUND-WATER EVALUATION PROGRAM - PROPOSED MONITORING WELL LOCATION" LAST DATED JULY 1993.
- 5.) MAP PREPARED BY CRANDALL SURVEYORS, TITLED "GRIFFIN TECHNOLOGY INC. - ON - SITE / OFF - SITE GROUND WATER EVALUATION PROGRAM - PART OF GRIFFIN TECHNOLOGY PROPERTY NORTH OF N.Y.S. ROUTE 96 & JOHN W. & JANE A. WADE PROPERTY SOUTH OF N.Y.S. ROUTE 96. LAST DATED 12-22-1994. JOB #942296

URS Greiner Woodward Clyde

30775 Bainbridge Road, Suite 200
Solon, Ohio 44139

CLIENT: DIEBOLD, INC.

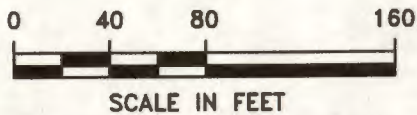
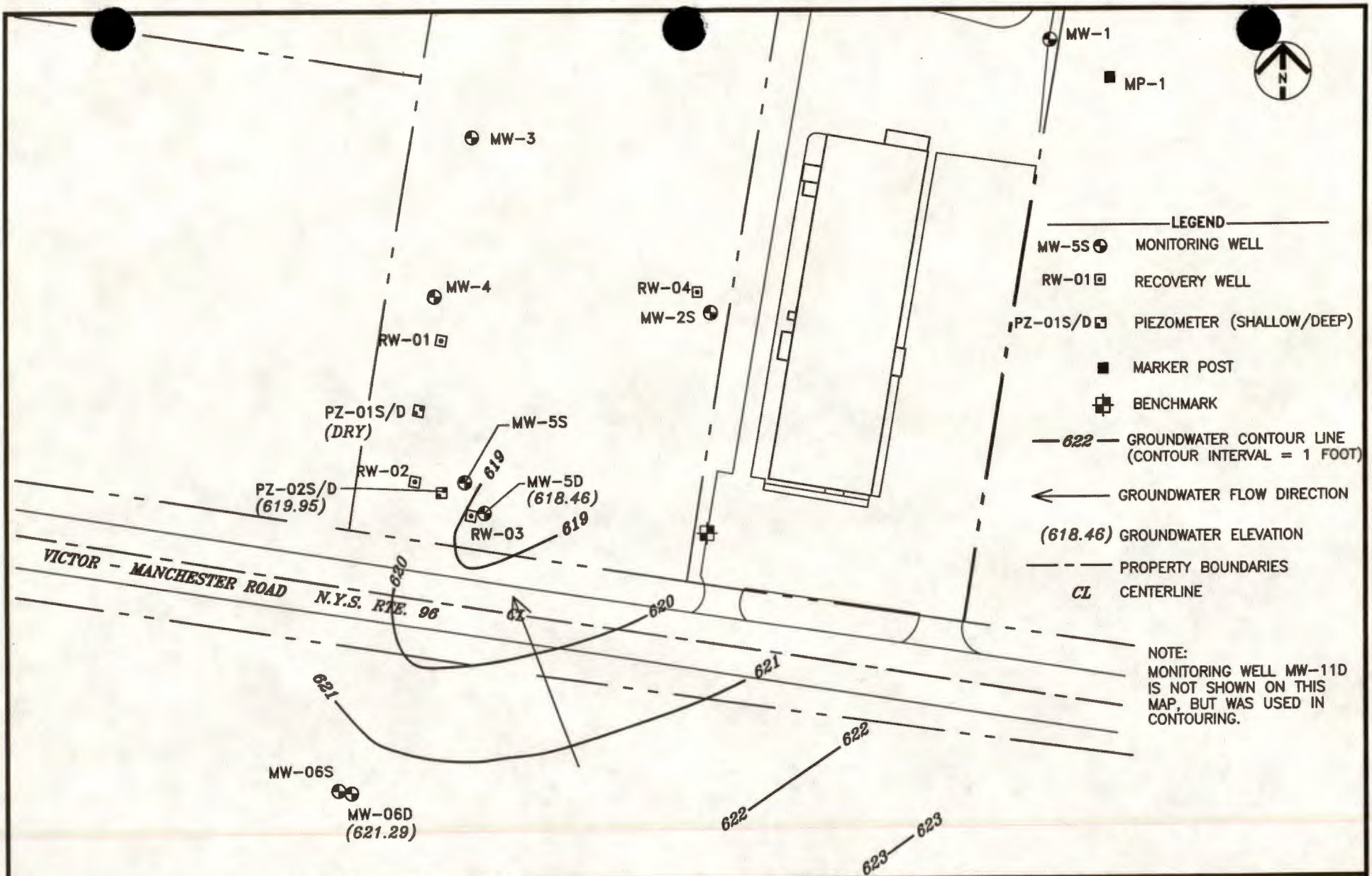
LOCATION: GRIFFIN TECHNOLOGY, INC., NEW YORK

OVERBURDEN GROUNDWATER CONTOUR MAP
MARCH 28, 2000

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| DRAWN BY: | CHECKED BY: | PROJECT NO: | DATE: | FIGURE NO: |
| ERB | LMH | 6E06191 | 6/15/00 | 3-7 |

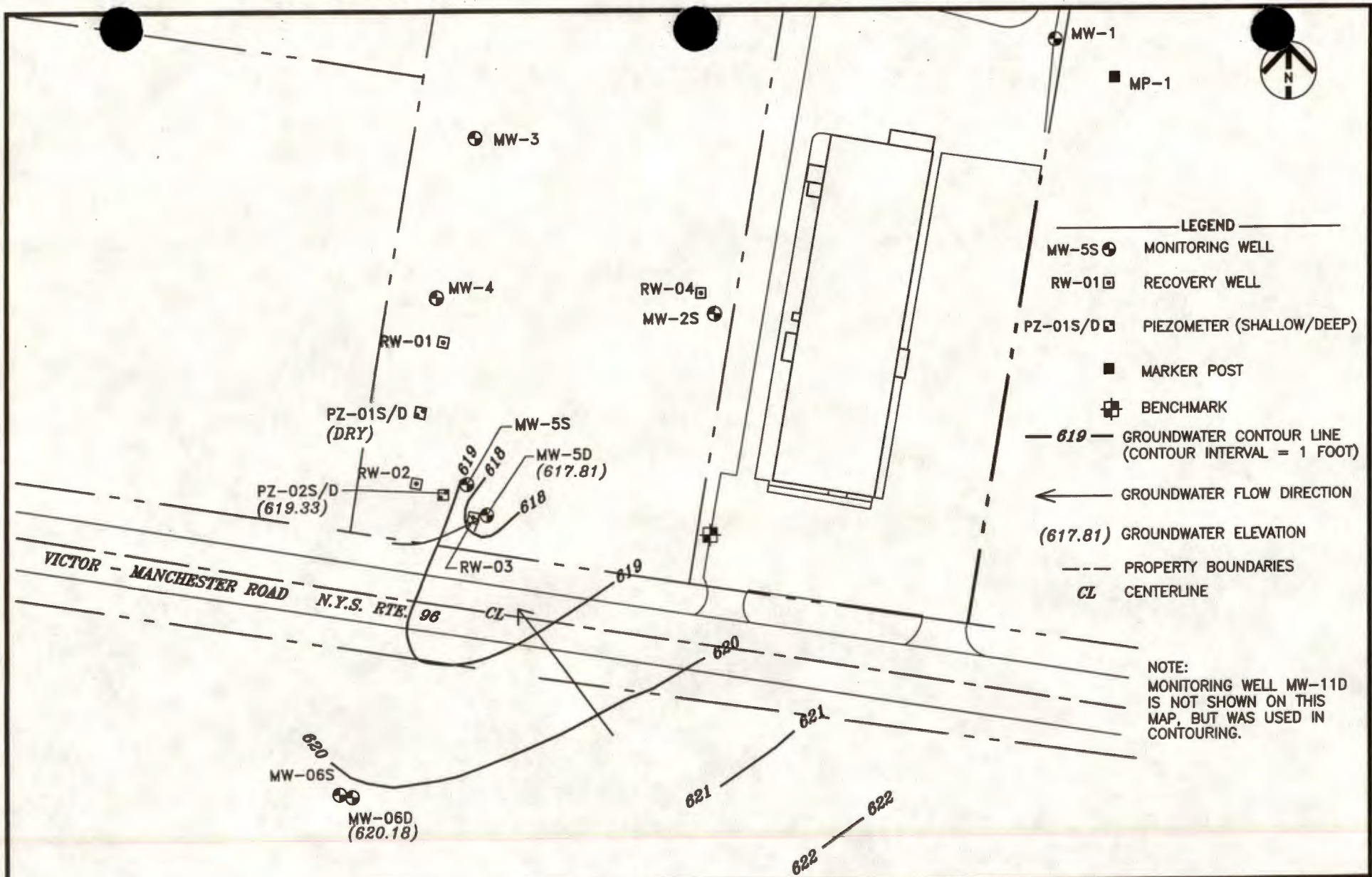
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NOTE:
BEDROCK MONITORING WELLS ARE DENOTED WITH A "D" (MW-6D).



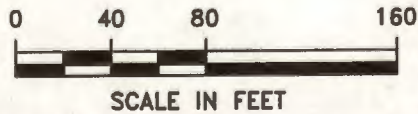
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URS Greiner Woodward Clyde



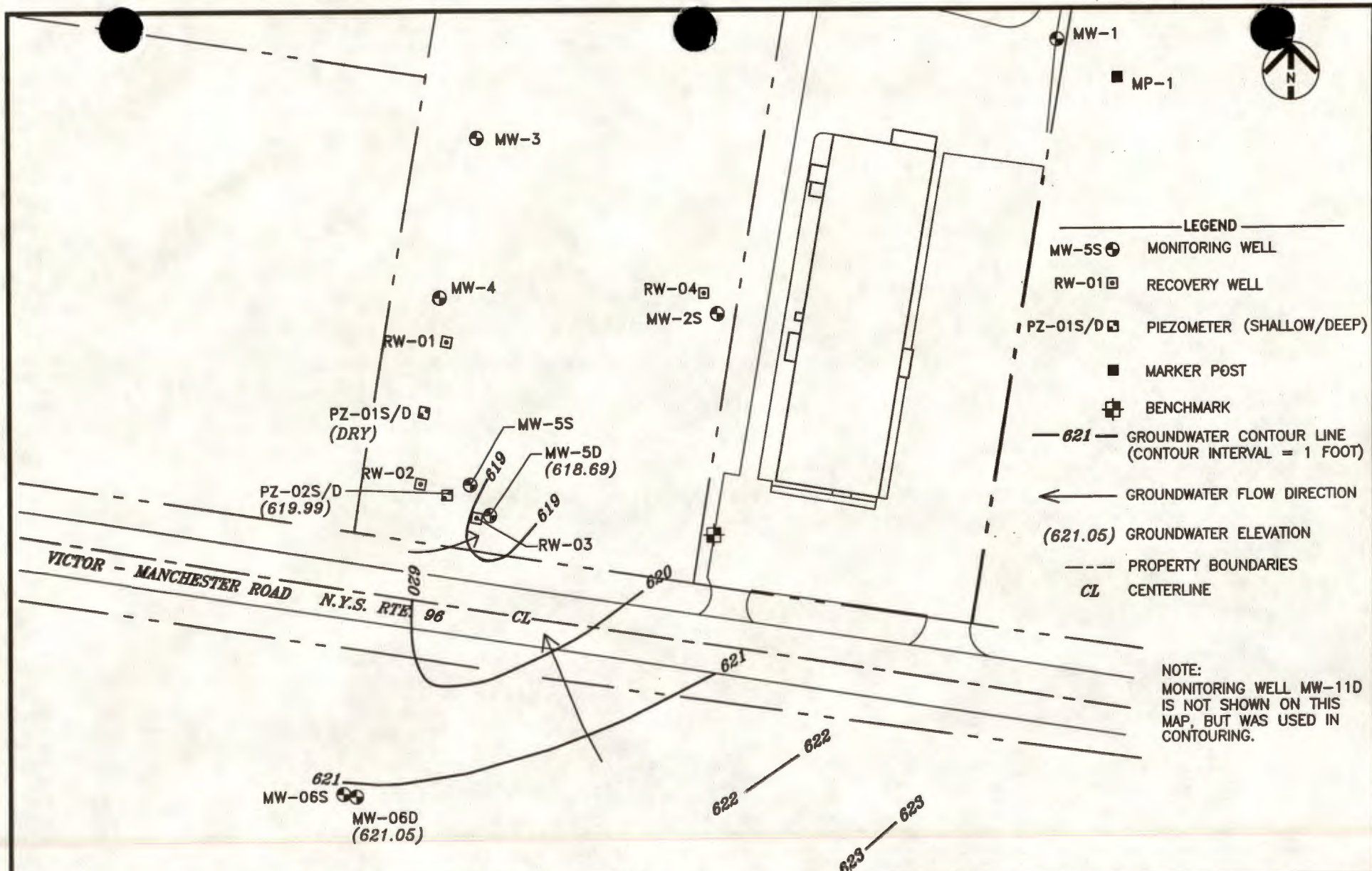
- LEGEND**
- MW-5S ⊕ MONITORING WELL
 - RW-01 □ RECOVERY WELL
 - PZ-01S/D □ PIEZOMETER (SHALLOW/DEEP)
 - MARKER POST
 - ⊕ BENCHMARK
 - 619 — GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 1 FOOT)
 - ← GROUNDWATER FLOW DIRECTION
 - (617.81) GROUNDWATER ELEVATION
 - - - PROPERTY BOUNDARIES
 - CL CENTERLINE

NOTE:
 MONITORING WELL MW-11D
 IS NOT SHOWN ON THIS
 MAP, BUT WAS USED IN
 CONTOURING.



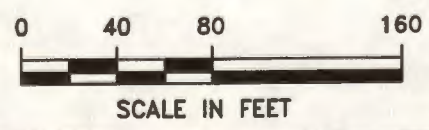
BEDROCK GROUNDWATER CONTOUR MAP
NOVEMBER 20, 1999
 GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK

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| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 03-06-00 | FIGURE NO: 3-9 |
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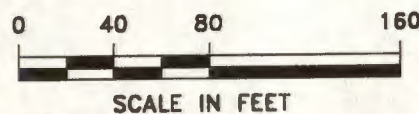
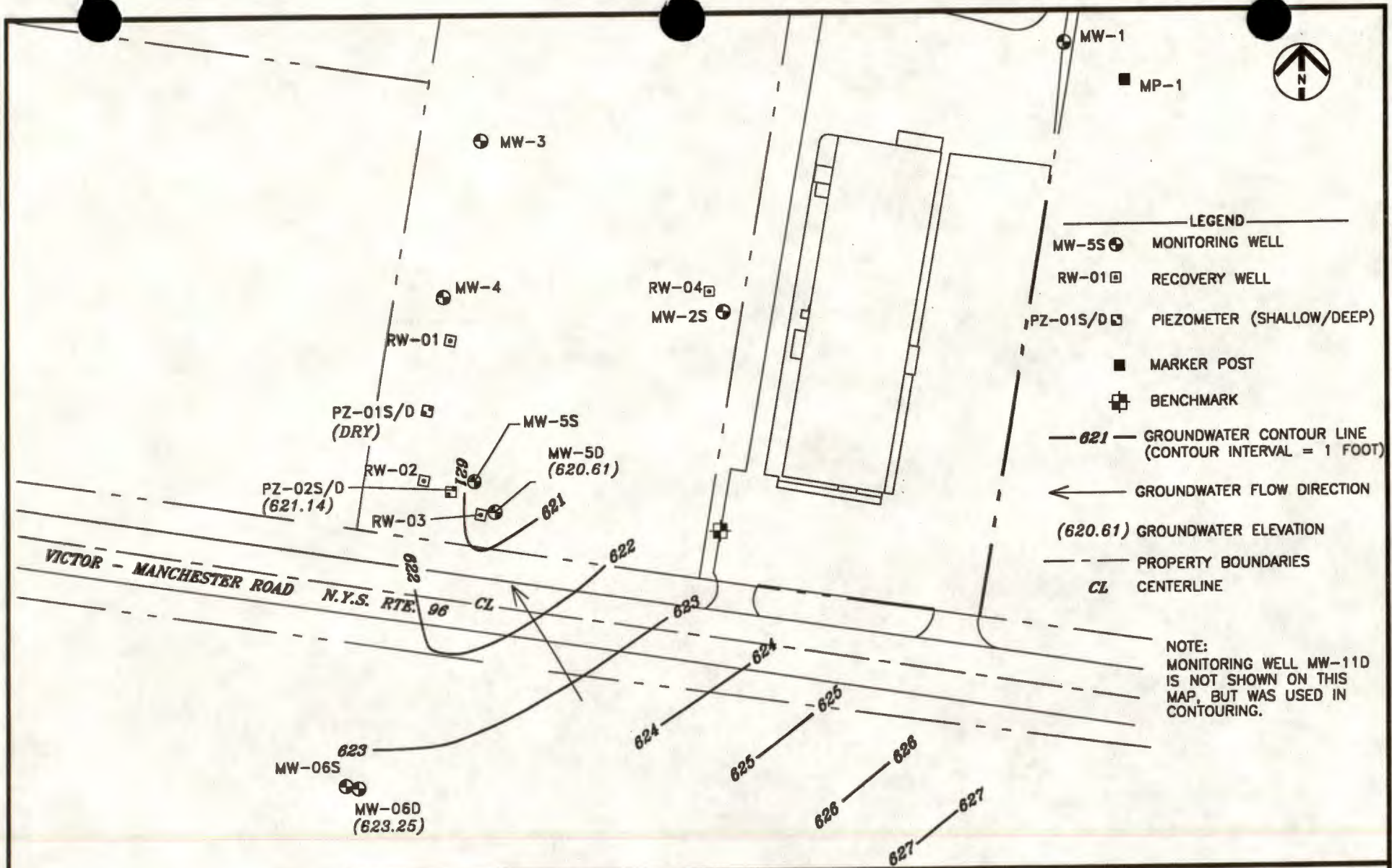


- LEGEND**
- MW-5S ⊕ MONITORING WELL
 - RW-01 □ RECOVERY WELL
 - PZ-01S/D □ PIEZOMETER (SHALLOW/DEEP)
 - MARKER POST
 - ⊕ BENCHMARK
 - 621 — GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 1 FOOT)
 - ← GROUNDWATER FLOW DIRECTION
 - (621.05) GROUNDWATER ELEVATION
 - - - PROPERTY BOUNDARIES
 - CL CENTERLINE

NOTE:
 MONITORING WELL MW-11D
 IS NOT SHOWN ON THIS
 MAP, BUT WAS USED IN
 CONTOURING.

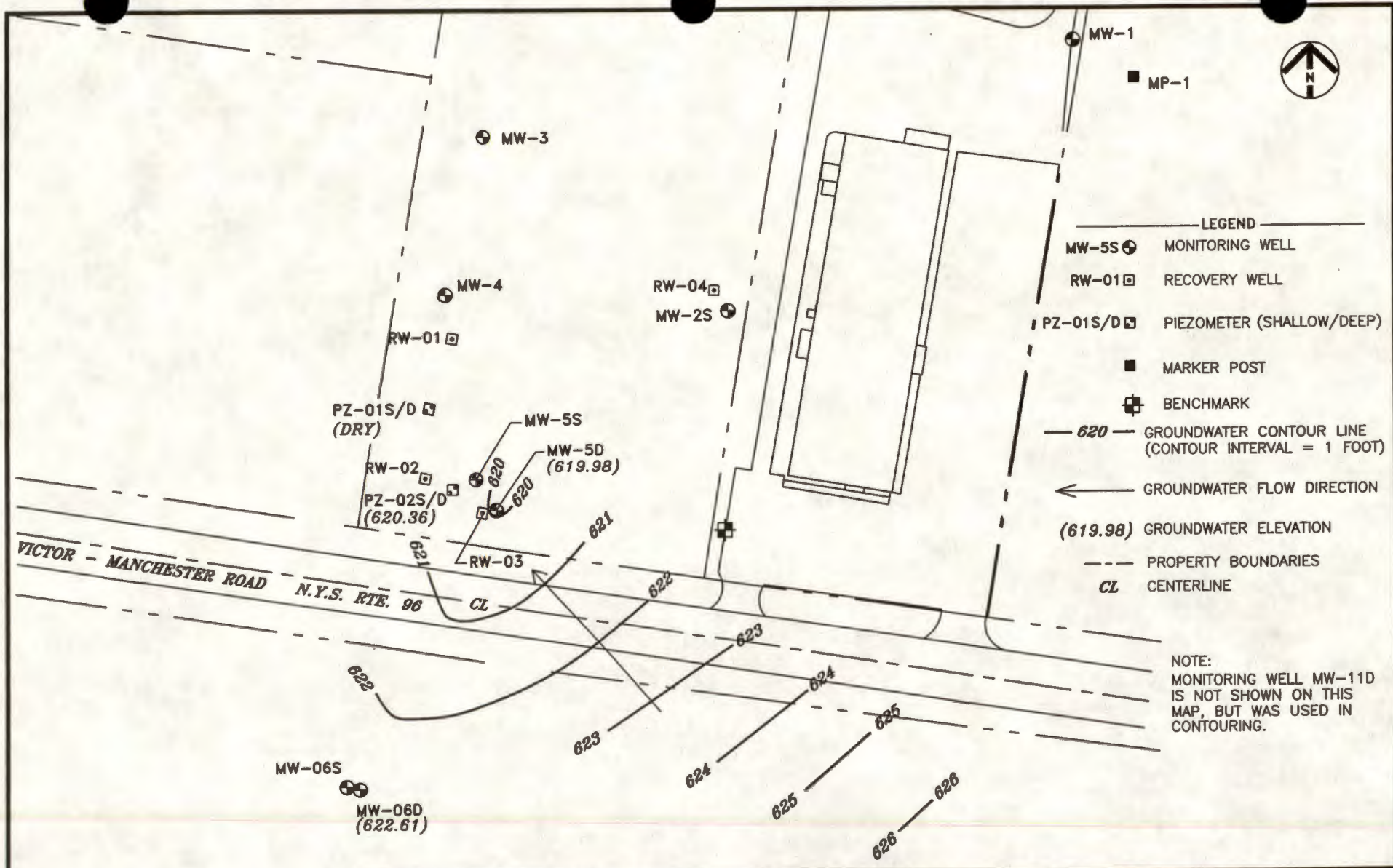


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| BEDROCK GROUNDWATER CONTOUR MAP | | | |
| DECEMBER 11, 1999 | | | |
| GRIFFIN TECHNOLOGY, INC - FARMINGTON, NEW YORK | | | |
| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 03-06-00 |
| | | | FIGURE NO: 3-10 |



BEDROCK GROUNDWATER CONTOUR MAP
JANUARY 14, 2000
GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK

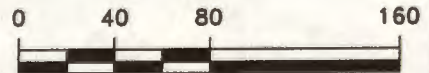
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| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 4/26/00 | FIGURE NO: 3-11 |
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BEDROCK GROUNDWATER CONTOUR MAP

FEBRUARY 15, 2000

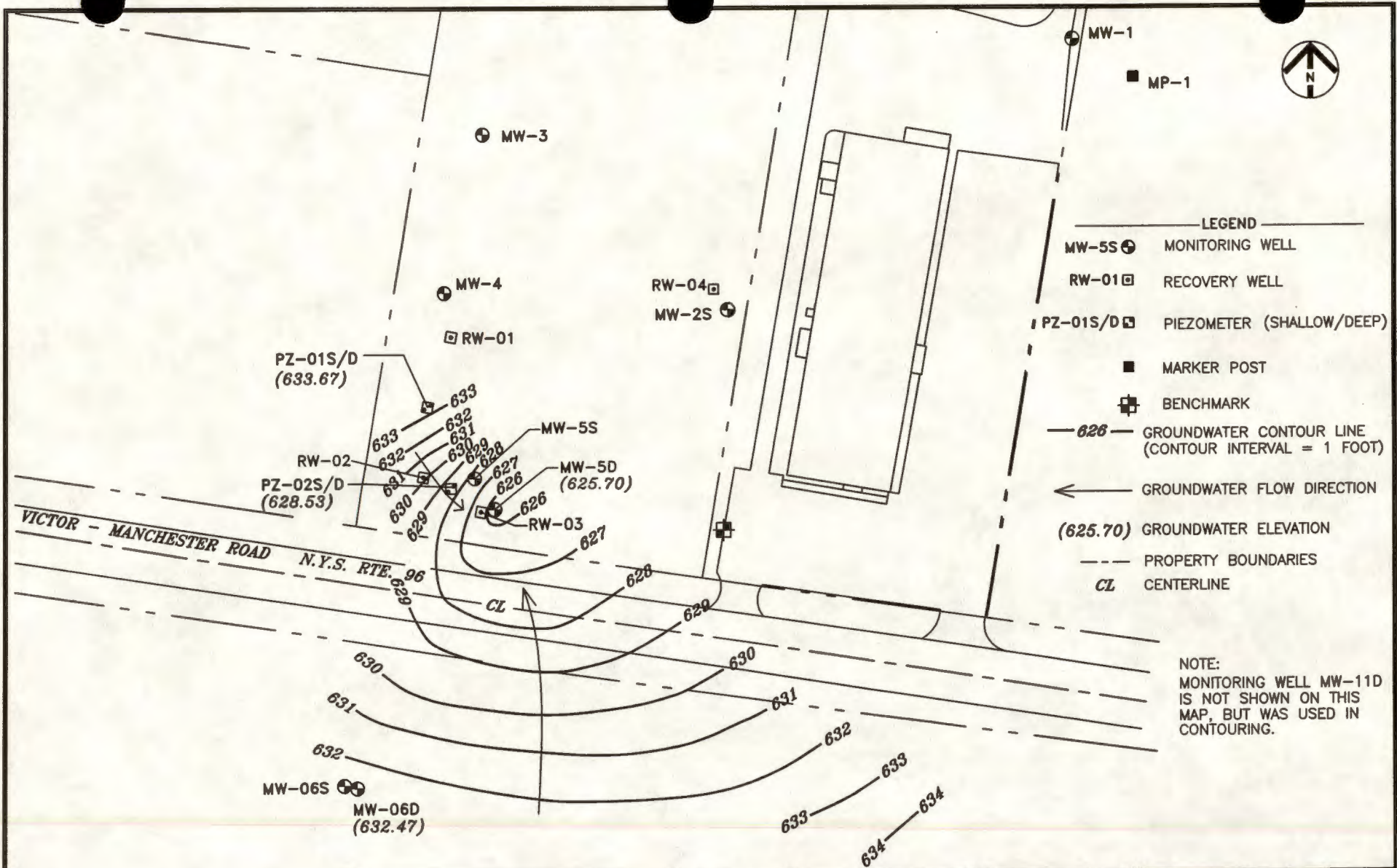
GRIFFIN TECHNOLOGY, INC. - FARMINGTON, NEW YORK



SCALE IN FEET

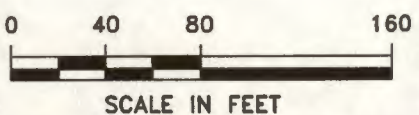
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| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 05-24-00 | FIGURE NO: 3-12 |
|---------------|-----------------|-------------------------|----------------|-----------------|

NOTE:
MONITORING WELL MW-11D
IS NOT SHOWN ON THIS
MAP, BUT WAS USED IN
CONTOURING.

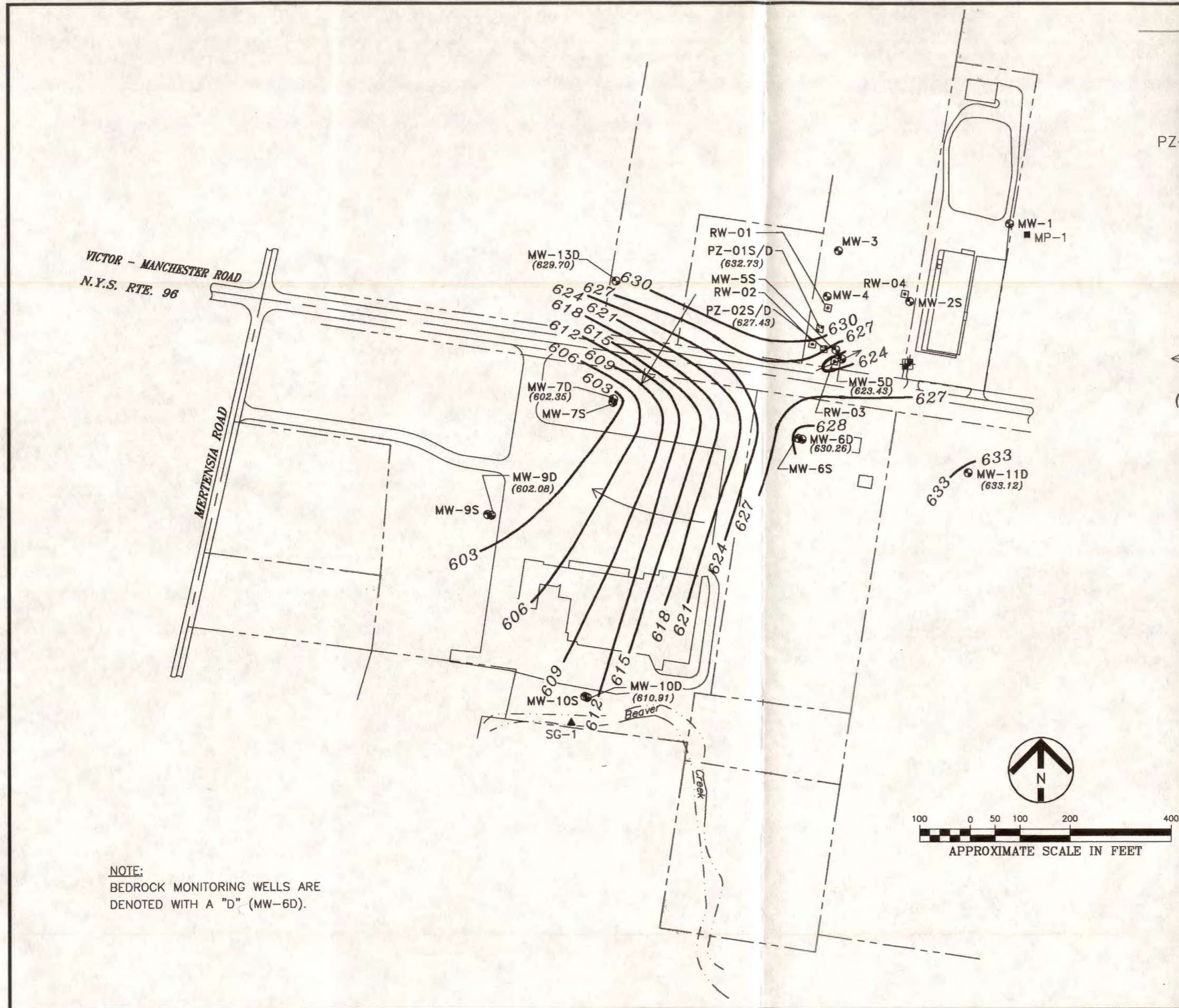


- LEGEND**
- MW-5S MONITORING WELL
 - RW-01 RECOVERY WELL
 - PZ-01S/D PIEZOMETER (SHALLOW/DEEP)
 - MARKER POST
 - BENCHMARK
 - 626 GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 1 FOOT)
 - ← GROUNDWATER FLOW DIRECTION
 - (625.70) GROUNDWATER ELEVATION
 - PROPERTY BOUNDARIES
 - CL CENTERLINE

NOTE:
MONITORING WELL MW-11D
IS NOT SHOWN ON THIS
MAP, BUT WAS USED IN
CONTOURING.



| | | | |
|---|-----------------|-------------------------|-----------------|
| BEDROCK GROUNDWATER CONTOUR MAP | | | |
| MARCH 18, 2000 | | | |
| GRIFFIN TECHNOLOGY, INC - FARMINGTON, NEW YORK | | | |
| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NUMBER: 6E06191 | DATE: 4/28/00 |
| | | | FIGURE NO: 3-13 |



NOTE:
BEDROCK MONITORING WELLS ARE DENOTED WITH A "D" (MW-6D).

LEGEND

- MW-5S MONITORING WELL
- RW-01 RECOVERY WELL
- PZ-01S/D PIEZOMETER (SHALLOW/DEEP)
- STAFF GAUGE
- MARKER POST
- BENCHMARK
- 618 GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL = 3 FOOT)
- GROUNDWATER FLOW DIRECTION
- (633.12) GROUNDWATER ELEVATION

References:

- 1.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "LANDS OF R.D. PRODUCTS INC." LAST DATED JUNE 17, 1983. JOB #83138.
- 2.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "GRIFFIN TECHNOLOGY 6132 VICTOR-MANCHESTER ROAD, SOIL BORINGS & MONITORING WELLS" LAST DATED JUNE 19, 1991. JOB #911767.
- 3.) MAP PREPARED BY PAUL V. CRANDALL P.L.S. TITLED "MAP SHOWING LANDS OF JAMES V. ALAIMO - ANTHONY S. ALAIMO, M.D. - STEPHEN L. ALAIMO, M.D. - SAMUEL R. ALAIMO & JOSEPH W. ALAIMO ESTATE TO BE CONVEYED" LAST DATED AUGUST 25 1993. JOB #932113.
- 4.) MAP PREPARED BY BLASLAND & BOUCK ENGINEERS, P.C. TITLED "GRIFFIN TECHNOLOGY INC. VICTOR, NEW YORK OFF-SITE GROUND-WATER EVALUATION PROGRAM - PROPOSED MONITORING WELL LOCATION" LAST DATED JULY 1993.
- 5.) MAP PREPARED BY CRANDALL SURVEYORS, TITLED "GRIFFIN TECHNOLOGY INC. - ON - SITE / OFF - SITE GROUND WATER EVALUATION PROGRAM - PART OF GRIFFIN TECHNOLOGY PROPERTY NORTH OF N.Y.S. ROUTE 96 & JOHN W. & JANE A. WADE PROPERTY SOUTH OF N.Y.S. ROUTE 96. LAST DATED 12-22-1994. JOB #942296

URS Greiner Woodward Clyde

30775 Bainbridge Road, Suite 200
Solon, Ohio 44139

CLIENT: DIEBOLD, INC.
LOCATION: GRIFFIN TECHNOLOGY, INC., NEW YORK

BEDROCK GROUNDWATER CONTOUR MAP MARCH 28, 2000

| | | | | |
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| DRAWN BY: ERB | CHECKED BY: LMH | PROJECT NO: 6E06191 | DATE: 6/15/00 | FIGURE NO: 3-14 |
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A FULL SERVICE ENVIRONMENTAL LABORATORY

April 6, 2000

Mr. Mark Schmidt
URS Greiner Woodward Clyde
30775 Bainbridge Road
Suite 200
Solon, OH 44139

PROJECT: GRIFFIN IRM
Submission #: R2001319

Dear Mr. Schmidt

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read 'Mark Wilson', is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : URS Greiner Woodward Clyde
Project Reference: GRIFFIN IRM
Lab Submission # : R2001319
Reported : 04/06/00

Report Contains a total of 7 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael P.*

00001

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2001319

Lab ID

365967

Client ID

EFF-3-18-00

All samples were received in good condition.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

00002



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

| | | | |
|------------------------|---------|-----------------------|----------|
| NY ID # in Rochester: | 10145 | NJ ID # in Rochester: | 73004 |
| CT ID # in Rochester: | PH0556 | RJ ID # in Rochester: | 158 |
| MA ID # in Rochester: | M-NY032 | NH ID # in Rochester: | 294198-A |
| OH EPA # in Rochester: | VAP | AIHA # in Rochester: | 7889 |

00003

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 04/06/00

URS Greiner Woodward Clyde
 Project Reference: GRIFFIN IRM
 Client Sample ID : EFF-3-18-00

Date Sampled : 03/18/00 10:45 Order #: 365967 Sample Matrix: WATER
 Date Received: 03/18/00 Submission #: R2001319 Analytical Run 49090

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|-----|--------|-------|
| DATE ANALYZED : 03/30/00 | | | |
| ANALYTICAL DILUTION: 2.00 | | | |
| ACETONE | 20 | 40 U | UG/L |
| BENZENE | 5.0 | 10 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 10 U | UG/L |
| BROMOFORM | 5.0 | 10 U | UG/L |
| BROMOMETHANE | 5.0 | 10 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 20 U | UG/L |
| CARBON DISULFIDE | 10 | 20 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 10 U | UG/L |
| CHLOROBENZENE | 5.0 | 10 U | UG/L |
| CHLOROETHANE | 5.0 | 10 U | UG/L |
| CHLOROFORM | 5.0 | 10 U | UG/L |
| CHLOROMETHANE | 5.0 | 10 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 10 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 10 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 10 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 10 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 10 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 10 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 10 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 10 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 10 U | UG/L |
| ETHYLBENZENE | 5.0 | 10 U | UG/L |
| 2-HEXANONE | 10 | 20 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 10 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 20 U | UG/L |
| STYRENE | 5.0 | 10 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 10 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 10 U | UG/L |
| TOLUENE | 5.0 | 10 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 10 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 10 U | UG/L |
| TRICHLOROETHENE | 5.0 | 310 | UG/L |
| VINYL CHLORIDE | 5.0 | 10 U | UG/L |
| O-XYLENE | 5.0 | 10 U | UG/L |
| M+P-XYLENE | 5.0 | 10 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|----------------------|--------------|----|---|
| 4-BROMOFLUOROBENZENE | (86 - 115 %) | 98 | % |
| TOLUENE-D8 | (88 - 110 %) | 99 | % |
| BROMOFLUOROMETHANE | (86 - 118 %) | 99 | % |

00004

**Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form**

Project/Client IRM Submission Number R2-1319

Cooler received on 3/18/00 by: [Signature] COURIER: CAS UPS FEDEX CD&L **CLIENT**

1. Were custody seals on outside of cooler? YES **NO** Date ___ : Signature
2. Were custody papers properly filled out (ink, signed, etc.)? **YES** NO
3. Did all bottles arrive in good condition (unbroken)? **YES** NO
4. Were VOA vials checked for absence of air bubbles, and noted if so? **YES** NO
5. Were Ice or Ice packs present? **YES** NO
6. Where did the bottles originate? CAS/ROC, **CLIENT**
7. Temperature of cooler(s) upon receipt: 40

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 3/18/00 1130

Thermometer ID: 161 **Temp Blank** Sample Bottle Cooler Temp. IR. Gun

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 3/21/00 by: [Signature]

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? **YES** NO
2. Did all bottle labels and tags agree with custody papers? **YES** NO
3. Were correct bottles used for the tests indicated? **YES** NO

Explain any discrepancies: _____

| | | YES | NO | Sample I.D. | Reagent | Vol. Added |
|------|--------------------------------|-----|----|-------------|---------|------------|
| pH | Reagent | | | | | |
| 12 | NaOH | | | | | |
| 2 | HNO ₃ | | | | | |
| 2 | H ₂ SO ₄ | | | | | |
| 5-9* | P/PCBs (608 only) | | | | | |

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____
 *If pH adjustment is required, use NaOH and/or H₂SO₄

| VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2 | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

Other Comments:



A FULL SERVICE ENVIRONMENTAL LABORATORY

March 1, 2000

Mr. Mark Schmidt
URS Greiner Woodward Clyde
30775 Bainbridge Road
Suite 200
Solon, OH 44139

PROJECT: GRIFFIN IRM
Submission #: R2000885

Dear Mr. Schmidt

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read 'Mark Wilson', is written over the typed name.

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal.

A handwritten signature in cursive script, appearing to read 'Michael K. Perry', is written at the end of the QA review statement.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

| | | | |
|------------------------|---------|-----------------------|----------|
| NY ID # in Rochester: | 10145 | NJ ID # in Rochester: | 73004 |
| CT ID # in Rochester: | PH0556 | RI ID # in Rochester: | 158 |
| MA ID # in Rochester: | M-NY032 | NH ID # in Rochester: | 294198-A |
| OH EPA # in Rochester: | VAP | AIHA # in Rochester: | 7889 |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 03/01/00

URS Greiner Woodward Clyde
 Project Reference: GRIFFIN IRM
 Client Sample ID : EFF-2-15-00

Date Sampled : 02/14/00 Order #: 359541 Sample Matrix: WATER
 Date Received: 02/15/00 Submission #: R2000885 Analytical Run 48021

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|------------|--------|-------|
| DATE ANALYZED | : 02/25/00 | | |
| ANALYTICAL DILUTION: | 1.00 | | |
| ACETONE | 20 | 20 U | UG/L |
| BENZENE | 5.0 | 5.0 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| BROMOFORM | 5.0 | 5.0 U | UG/L |
| BROMOMETHANE | 5.0 | 5.0 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 10 U | UG/L |
| CARBON DISULFIDE | 10 | 10 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 5.0 U | UG/L |
| CHLOROBENZENE | 5.0 | 5.0 U | UG/L |
| CHLOROETHANE | 5.0 | 5.0 U | UG/L |
| CHLOROFORM | 5.0 | 5.0 U | UG/L |
| CHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 5.6 | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 5.0 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| ETHYLBENZENE | 5.0 | 5.0 U | UG/L |
| 2-HEXANONE | 10 | 10 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 5.0 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 10 U | UG/L |
| STYRENE | 5.0 | 5.0 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TOLUENE | 5.0 | 5.0 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 12 | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TRICHLOROETHENE | 5.0 | 400 E | UG/L |
| VINYL CHLORIDE | 5.0 | 5.0 U | UG/L |
| O-XYLENE | 5.0 | 5.0 U | UG/L |
| M+P-XYLENE | 5.0 | 5.0 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|----------------------|--------------|-----|---|
| -BROMOFLUOROBENZENE | (86 - 115 %) | 103 | % |
| TOLUENE-D8 | (88 - 110 %) | 99 | % |
| DIBROMOFLUOROMETHANE | (86 - 118 %) | 102 | % |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 03/01/00

URS Greiner Woodward Clyde
 Project Reference: GRIFFIN IRM
 Client Sample ID : EFF-2-15-00

Date Sampled : 02/14/00 Order #: 359541 Sample Matrix: WATER
 Date Received: 02/15/00 Submission #: R2000885 Analytical Run 48021

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|------------|--------|-------|
| DATE ANALYZED | : 02/28/00 | | |
| ANALYTICAL DILUTION: | 2.50 | | |
| ACETONE | 20 | 50 U | UG/L |
| BENZENE | 5.0 | 13 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 13 U | UG/L |
| BROMOFORM | 5.0 | 13 U | UG/L |
| BROMOMETHANE | 5.0 | 13 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 25 U | UG/L |
| CARBON DISULFIDE | 10 | 25 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 13 U | UG/L |
| CHLOROBENZENE | 5.0 | 13 U | UG/L |
| CHLOROETHANE | 5.0 | 13 U | UG/L |
| CHLOROFORM | 5.0 | 13 U | UG/L |
| CHLOROMETHANE | 5.0 | 13 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 13 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 13 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 13 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 13 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 13 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 13 U | UG/L |
| ETHYLBENZENE | 5.0 | 13 U | UG/L |
| 2-HEXANONE | 10 | 25 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 13 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 25 U | UG/L |
| STYRENE | 5.0 | 13 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 13 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 13 U | UG/L |
| TOLUENE | 5.0 | 13 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 13 | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 13 U | UG/L |
| TRICHLOROETHENE | 5.0 | 460 | UG/L |
| VINYL CHLORIDE | 5.0 | 13 U | UG/L |
| O-XYLENE | 5.0 | 13 U | UG/L |
| M+P-XYLENE | 5.0 | 13 U | UG/L |

| SURROGATE RECOVERIES | QC LIMITS | | |
|--------------------------|--------------|-----|---|
| 1,2-DIBROMOFLUOROBENZENE | (86 - 115 %) | 105 | % |
| TOLUENE-D8 | (88 - 110 %) | 102 | % |
| DIBROMOFLUOROMETHANE | (86 - 118 %) | 107 | % |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 03/01/00

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 361655 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 48021

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|-----|--------|-------|
| DATE ANALYZED : 02/25/00 | | | |
| ANALYTICAL DILUTION: 1.00 | | | |
| ACETONE | 20 | 20 U | UG/L |
| BENZENE | 5.0 | 5.0 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| BROMOFORM | 5.0 | 5.0 U | UG/L |
| BROMOMETHANE | 5.0 | 5.0 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 10 U | UG/L |
| CARBON DISULFIDE | 10 | 10 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 5.0 U | UG/L |
| CHLOROBENZENE | 5.0 | 5.0 U | UG/L |
| CHLOROETHANE | 5.0 | 5.0 U | UG/L |
| CHLOROFORM | 5.0 | 5.0 U | UG/L |
| CHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 5.0 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| ETHYLBENZENE | 5.0 | 5.0 U | UG/L |
| 2-HEXANONE | 10 | 10 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 5.0 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 10 U | UG/L |
| STYRENE | 5.0 | 5.0 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TOLUENE | 5.0 | 5.0 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TRICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| VINYL CHLORIDE | 5.0 | 5.0 U | UG/L |
| O-XYLENE | 5.0 | 5.0 U | UG/L |
| M+P-XYLENE | 5.0 | 5.0 U | UG/L |

| SURROGATE RECOVERIES | QC LIMITS | | |
|----------------------|--------------|-----|---|
| -BROMOFLUOROBENZENE | (86 - 115 %) | 101 | % |
| TOLUENE-D8 | (88 - 110 %) | 99 | % |
| DIBROMOFLUOROMETHANE | (86 - 118 %) | 102 | % |



1 Mustard St., Suite 250, Rochester, NY 14609-6925
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 2-15-00 PAGE 1 OF 1

PROJECT NAME Griffin Irm
 PROJECT MANAGER/CONTACT Mark Schmidt
 COMPANY/ADDRESS 30775 Bainbridge Rd.
Solon, Ohio
 TEL (440) 349-2708 FAX (440) 349-1514
 SAMPLER'S SIGNATURE Bob Fabian

ANALYSIS REQUESTED

| SAMPLE I.D. | DATE | TIME | FOR OFFICE USE ONLY LAB I.D. | SAMPLE MATRIX | # OF CONTAINERS | GC/MS VOA's <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 95-1 <input type="checkbox"/> 8270 <input type="checkbox"/> 625 <input type="checkbox"/> 95-2 | GC VOA's <input type="checkbox"/> 8021 <input type="checkbox"/> 601/602 | PESTICIDES/PCB's <input type="checkbox"/> 8081 <input type="checkbox"/> 608 <input type="checkbox"/> 95-3 | STAR'S LIST 8021 VOA's <input type="checkbox"/> TOTAL <input type="checkbox"/> TCLP | STAR'S LIST 8270 SVOA's <input type="checkbox"/> TOTAL <input type="checkbox"/> TCLP | TCLP <input type="checkbox"/> METALS <input type="checkbox"/> VOA's <input type="checkbox"/> SVOA's <input type="checkbox"/> H/P | WASTE CHARACTERIZATION <input type="checkbox"/> React <input type="checkbox"/> Corros. <input type="checkbox"/> Ignit. | METALS, TOTAL (LIST BELOW) | METALS, DISSOLVED (LIST BELOW) | PRESERVATION | | | | | |
|--------------------|----------------|--------------|---------------------------------|---------------|-----------------|---|--|--|--|---|---|---|-------------------------------|-----------------------------------|--------------|---------|-------|--|--|--|
| | | | | | | | | | | | | | | | pH < 2.0 | pH > 12 | Other | | | |
| <u>EFF-2-15-00</u> | <u>2-15-00</u> | <u>12:30</u> | <u>359541</u> | <u>WATER</u> | <u>2</u> | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
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|---|--|
| RELINQUISHED BY: <u>Bob Fabian</u> Signature <u>Bob Fabian</u> Printed Name <u>URSGWC</u> Firm <u>2-15-00 13:15</u> Date/Time | RECEIVED BY: <u>Rachelle Bogart</u> Signature <u>Rachelle Bogart</u> Printed Name <u>CAS</u> Firm <u>2-15-00 13:14</u> Date/Time |
| RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____ | RECEIVED BY: <u>Negory D. Esmerio</u> Signature <u>Negory D. Esmerio</u> Printed Name <u>CAS</u> Firm <u>2-15-00 13:14</u> Date/Time |
| RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____ | RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____ |

| | | | |
|--|--|--|--|
| TURNAROUND REQUIREMENTS ___ 24 hr. ___ 48 hr. ___ 5 day ___ Standard (10-15 working days) ___ Provide Verbal Preliminary Results ___ Provide FAX Preliminary Results Requested Report Date _____ | REPORT REQUIREMENTS ___ 1. Routine Report ___ 2. Routine Rep. w/CASE Narrative ___ 3. EPA Level III Validatable Package ___ 4. N.J. Reduced Deliverables Level IV ___ 5. NY ASP/CLP Deliverables ___ 6. Site specific QC. | INVOICE INFORMATION: P.O. #: _____ Bill To: _____ _____ _____ | SAMPLE RECEIPT: Shipping Via: <u>Client</u> Shipping #: _____ Temperature: <u>80</u> Submission No: <u>R2000805</u> |
|--|--|--|--|

SPECIAL INSTRUCTIONS/COMMENTS:

METALS

ORGANICS: TCL PPL AE Only BN Only Special List

**Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form**

Project/Client _____ Submission Number R2-885

Cooler received on 2-15-00 by: JHE COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES (NO) : Date _____ : Signature _____
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Were VOA vials checked for absence of air bubbles, and noted if so? (YES) NO
5. Were Ice or Ice packs present? (YES) NO
6. Where did the bottles originate? (CAS/ROC) CLIENT
7. Temperature of cooler(s) upon receipt: 8 ge* 4 hour Rule

Is the temperature within 0° - 6° C?: Yes No Yes No Yes No Yes No Yes No

If No, Explain Below

Date/Time Temperatures Taken: 2-15-00 13:15

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. IR. Gun

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 2-16-00 by: JHE

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct bottles used for the tests indicated? (YES) NO

Explain any discrepancies: _____

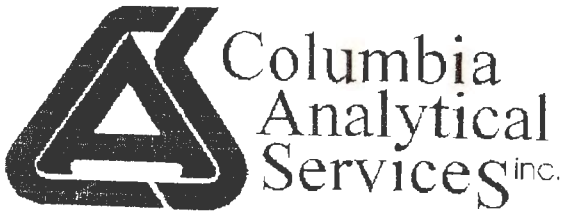
| | YES | NO | Sample ID. | Reagent | Vol. Added |
|------|-----|----|------------|--------------------------------|------------|
| pH | | | | | |
| 12 | | | | NaOH | |
| 2 | | | | HNO ₃ | |
| 2 | | | | H ₂ SO ₄ | |
| 5-9* | | | | P/PCBs (608 only) | |

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

*If pH adjustment is required, use NaOH and/or H₂SO₄

| VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2 | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

Other Comments:



A FULL SERVICE ENVIRONMENTAL LABORATORY

January 27, 2000

Mr. Mark Schmidt
URS Greiner Woodward Clyde
30775 Bainbridge Road
Suite 200
Solon, OH 44139

PROJECT: GRIFFIN IRM
Submission #: R2000527

Dear Mr. Schmidt

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read 'Mark Wilson', is written over the typed name.

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal.

1 Mustard St. • Suite 250 • Rochester, NY 14609 • Tele:(716)288-5380 • Fax:(716)288-8475

A handwritten signature in cursive script, appearing to read 'Michael V. [unclear]', is written at the end of the QA review statement.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester: 10145
CT ID # in Rochester: PH0556
MA ID # in Rochester: M-NY032
OH EPA # in Rochester: VAP

NJ ID # in Rochester: 73004
RI ID # in Rochester: 158
NH ID # in Rochester: 294198-A
AIHA # in Rochester: 7889

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 01/27/00

URS Greiner Woodward Clyde
 Project Reference: GRIFFIN IRM
 Client Sample ID : EFF-1-14-00

Date Sampled : 01/14/00 Order #: 354251 Sample Matrix: WATER
 Date Received: 01/14/00 Submission #: R2000527 Analytical Run 47070

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|------------|--------|-------|
| DATE ANALYZED | : 01/17/00 | | |
| ANALYTICAL DILUTION: | 2.00 | | |
| ACETONE | 20 | 40 U | UG/L |
| BENZENE | 5.0 | 10 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 10 U | UG/L |
| BROMOFORM | 5.0 | 10 U | UG/L |
| BROMOMETHANE | 5.0 | 10 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 20 U | UG/L |
| CARBON DISULFIDE | 10 | 20 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 10 U | UG/L |
| CHLOROBENZENE | 5.0 | 10 U | UG/L |
| CHLOROETHANE | 5.0 | 10 U | UG/L |
| CHLOROFORM | 5.0 | 10 U | UG/L |
| CHLOROMETHANE | 5.0 | 10 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 10 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 10 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 10 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 10 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 10 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 10 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 10 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 10 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 10 U | UG/L |
| ETHYLBENZENE | 5.0 | 10 U | UG/L |
| 2-HEXANONE | 10 | 20 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 10 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 20 U | UG/L |
| STYRENE | 5.0 | 10 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 10 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 10 U | UG/L |
| TOLUENE | 5.0 | 10 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 10 | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 10 U | UG/L |
| TRICHLOROETHENE | 5.0 | 410 | UG/L |
| VINYL CHLORIDE | 5.0 | 10 U | UG/L |
| O-XYLENE | 5.0 | 10 U | UG/L |
| M+P-XYLENE | 5.0 | 10 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|----------------------|--------------|----|---|
| 4-BROMOFLUOROBENZENE | (86 - 115 %) | 92 | % |
| TOLUENE-D8 | (88 - 110 %) | 96 | % |
| 1-BROMOFLUOROMETHANE | (86 - 118 %) | 91 | % |



Effective 04/01/96

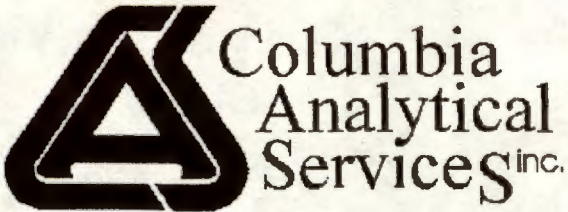
CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

| | | | |
|------------------------|---------|-----------------------|----------|
| NY ID # in Rochester: | 10145 | NJ ID # in Rochester: | 73004 |
| CT ID # in Rochester: | PH0556 | RI ID # in Rochester: | 158 |
| MA ID # in Rochester: | M-NY032 | NH ID # in Rochester: | 294198-A |
| OH EPA # in Rochester: | VAP | AIHA # in Rochester: | 7889 |



A FULL SERVICE ENVIRONMENTAL LABORATORY

January 3, 2000

Mr. Mark Schmidt
URS Greiner Woodward Clyde
30775 Bainbridge Road
Suite 200
Solon, OH 44139

PROJECT: GRIFFIN IRM
Submission #: 9912000177

Dear Mr. Schmidt

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read 'Mark Wilson', is written over the typed name.

Mark Wilson
Client Service Manager

Enc.

For reports

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal.

A handwritten signature in cursive script, likely belonging to the QA Department/Laboratory Director mentioned in the text above, is written over the bottom right portion of the page.

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 01/03/00

URS Greiner Woodward Clyde
 Project Reference: GRIFFIN IRM
 Client Sample ID : EFF-12-11-99

Date Sampled : 12/11/99 Order #: 348621 Sample Matrix: WATER
 Date Received: 12/11/99 Submission #: 9912000177 Analytical Run 46484

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|-----|--------|-------|
| DATE ANALYZED : 12/17/99 | | | |
| ANALYTICAL DILUTION: 2.50 | | | |
| ACETONE | 20 | 50 U | UG/L |
| BENZENE | 5.0 | 13 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 13 U | UG/L |
| BROMOFORM | 5.0 | 13 U | UG/L |
| BROMOMETHANE | 5.0 | 13 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 25 U | UG/L |
| CARBON DISULFIDE | 10 | 25 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 13 U | UG/L |
| CHLOROBENZENE | 5.0 | 13 U | UG/L |
| CHLOROETHANE | 5.0 | 13 U | UG/L |
| CHLOROFORM | 5.0 | 13 U | UG/L |
| CHLOROMETHANE | 5.0 | 13 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 13 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 13 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 13 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 13 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 13 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 13 U | UG/L |
| ETHYLBENZENE | 5.0 | 13 U | UG/L |
| 2-HEXANONE | 10 | 25 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 13 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 25 U | UG/L |
| STYRENE | 5.0 | 13 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 13 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 13 U | UG/L |
| TOLUENE | 5.0 | 13 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 13 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 13 U | UG/L |
| TRICHLOROETHENE | 5.0 | 420 | UG/L |
| VINYL CHLORIDE | 5.0 | 13 U | UG/L |
| O-XYLENE | 5.0 | 13 U | UG/L |
| M+P-XYLENE | 5.0 | 13 U | UG/L |

| SURROGATE RECOVERIES | QC LIMITS | | |
|----------------------|--------------|-----|---|
| -BROMOFLUOROBENZENE | (86 - 115 %) | 92 | % |
| TOLUENE-D8 | (88 - 110 %) | 97 | % |
| DIBROMOFLUOROMETHANE | (86 - 118 %) | 104 | % |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 01/03/00

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 351381 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 46484

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|-----|--------|-------|
| DATE ANALYZED : 12/17/99 | | | |
| ANALYTICAL DILUTION: 1.00 | | | |
| ACETONE | 20 | 20 U | UG/L |
| BENZENE | 5.0 | 5.0 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| BROMOFORM | 5.0 | 5.0 U | UG/L |
| BROMOMETHANE | 5.0 | 5.0 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 10 U | UG/L |
| CARBON DISULFIDE | 10 | 10 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 5.0 U | UG/L |
| CHLOROBENZENE | 5.0 | 5.0 U | UG/L |
| CHLOROETHANE | 5.0 | 5.0 U | UG/L |
| CHLOROFORM | 5.0 | 5.0 U | UG/L |
| CHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 5.0 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| ETHYLBENZENE | 5.0 | 5.0 U | UG/L |
| 2-HEXANONE | 10 | 10 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 5.0 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 10 U | UG/L |
| STYRENE | 5.0 | 5.0 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TOLUENE | 5.0 | 5.0 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TRICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| VINYL CHLORIDE | 5.0 | 5.0 U | UG/L |
| O-XYLENE | 5.0 | 5.0 U | UG/L |
| M+P-XYLENE | 5.0 | 5.0 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|--------------------------|--------------|-----|---|
| 1,2-DIBROMOFLUOROBENZENE | (86 - 115 %) | 93 | % |
| TOLUENE-D8 | (88 - 110 %) | 101 | % |
| DIBROMOFLUOROMETHANE | (86 - 118 %) | 103 | % |

**Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form**

Project/Client 11RS6WC Submission Number 12-177

Cooler received on 12-11-99 and opened on 12-11-99 by JM

1. Were custody seals on outside of cooler? YES NO
If yes, how many and where? Client delivered
2. Were signature & date correct? YES NO
3. Were custody papers properly filled out (ink, signed, etc)? YES NO
4. Did all bottles arrive in good condition (unbroken)? YES NO
5. Were all bottle labels complete (i.e. analysis, preservation, etc)? YES NO
6. Did all bottle labels and tags agree with custody papers? YES NO
7. Were correct bottles used for the tests indicated? YES NO
8. Were VOA vials checked for absence of air bubbles, and noted if so? YES NO
9. Where did the bottles originate? CAS/A CAS/K CAS/S CAS/L CAS/X CAS/J CAS/R

10. Temperature of cooler(s) upon receipt: 5.8°C

Is the temperature within $4 \pm 2^\circ \text{C}$? Yes No Yes No Yes No Yes No Yes No

If No, Explain Below

Date/Time Temperatures Taken: 12-11-99 @ 1110

Thermometer ID: 1R GUN Circle One: Temp Blank Sample Bottle Cooler Temp.

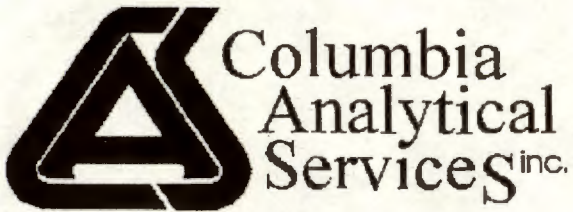
Explain any discrepancies: _____

| | | YES | NO | Sample I.D. | Reagent | Vol. Added |
|------|--------------------------------|-----|----|-------------|---------|------------|
| pH | Reagent | | | | | |
| 12 | NaOH | | | | | |
| 2 | HNO ₃ | | | | | |
| 2 | H ₂ SO ₄ | | | | | |
| 5-9* | P/PCBs (608 only) | | | | | |

YES = All samples OK
NO = Samples were preserved at lab as listed
*If pH adjustment is required, use NaOH and/or H₂SO₄

| VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2 | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

CLIENT NOTIFICATION: _____



A FULL SERVICE ENVIRONMENTAL LABORATORY

December 30, 1999

Mr. Mark Schmidt
URS Greiner Woodward Clyde
30775 Bainbridge Road
Suite 200
Solon, OH 44139

PROJECT: GRIFFIN IRM
Submission #: 9911000310

Dear Mr. Schmidt

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in dark ink, appearing to read 'Mark Wilson', is written over the typed name.

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal.

A handwritten signature in dark ink, appearing to read 'Michael K. Le...', is written at the end of the QA review statement.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

| | | | |
|------------------------|---------|-----------------------|----------|
| NY ID # in Rochester: | 10145 | NJ ID # in Rochester: | 73004 |
| CT ID # in Rochester: | PH0556 | RI ID # in Rochester: | 158 |
| MA ID # in Rochester: | M-NY032 | NH ID # in Rochester: | 294198-A |
| OH EPA # in Rochester: | VAP | AIHA # in Rochester: | 7889 |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 12/30/99

URS Greiner Woodward Clyde
 Project Reference: GRIFFIN IRM
 Client Sample ID : EFF-11-20-99

Date Sampled : 11/20/99 Order #: 343665 Sample Matrix: WATER
 Date Received: 11/20/99 Submission #: 9911000310 Analytical Run 45802

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|------------|--------|-------|
| DATE ANALYZED | : 11/30/99 | | |
| ANALYTICAL DILUTION: | 2.50 | | |
| ACETONE | 20 | 50 U | UG/L |
| BENZENE | 5.0 | 13 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 13 U | UG/L |
| BROMOFORM | 5.0 | 13 U | UG/L |
| BROMOMETHANE | 5.0 | 13 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 25 U | UG/L |
| CARBON DISULFIDE | 10 | 25 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 13 U | UG/L |
| CHLOROBENZENE | 5.0 | 13 U | UG/L |
| CHLOROETHANE | 5.0 | 13 U | UG/L |
| CHLOROFORM | 5.0 | 13 U | UG/L |
| CHLOROMETHANE | 5.0 | 13 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 13 U | UG/L |
| , 1-DICHLOROETHANE | 5.0 | 13 U | UG/L |
| , 1,2-DICHLOROETHANE | 5.0 | 13 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 13 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 13 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 13 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 13 U | UG/L |
| ETHYLBENZENE | 5.0 | 13 U | UG/L |
| 2-HEXANONE | 10 | 25 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 13 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 25 U | UG/L |
| STYRENE | 5.0 | 13 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 13 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 13 U | UG/L |
| TOLUENE | 5.0 | 13 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 13 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 13 U | UG/L |
| TRICHLOROETHENE | 5.0 | 450 | UG/L |
| VINYL CHLORIDE | 5.0 | 13 U | UG/L |
| O-XYLENE | 5.0 | 13 U | UG/L |
| M+P-XYLENE | 5.0 | 13 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|----------------------|--------------|-----|---|
| 4-BROMOFLUOROBENZENE | (86 - 115 %) | 97 | % |
| TOLUENE-D8 | (88 - 110 %) | 100 | % |
| DIBROMOFLUOROMETHANE | (86 - 118 %) | 98 | % |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 12/30/99

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 346976 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 45802

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|------------|--------|-------|
| DATE ANALYZED | : 11/30/99 | | |
| ANALYTICAL DILUTION: | 1.00 | | |
| ACETONE | 20 | 20 U | UG/L |
| BENZENE | 5.0 | 5.0 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| BROMOFORM | 5.0 | 5.0 U | UG/L |
| BROMOMETHANE | 5.0 | 5.0 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 10 U | UG/L |
| CARBON DISULFIDE | 10 | 10 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 5.0 U | UG/L |
| CHLOROBENZENE | 5.0 | 5.0 U | UG/L |
| CHLOROETHANE | 5.0 | 5.0 U | UG/L |
| CHLOROFORM | 5.0 | 5.0 U | UG/L |
| CHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 5.0 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| ETHYLBENZENE | 5.0 | 5.0 U | UG/L |
| 2-HEXANONE | 10 | 10 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 5.0 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 10 U | UG/L |
| STYRENE | 5.0 | 5.0 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TOLUENE | 5.0 | 5.0 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TRICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| VINYL CHLORIDE | 5.0 | 5.0 U | UG/L |
| O-XYLENE | 5.0 | 5.0 U | UG/L |
| M+P-XYLENE | 5.0 | 5.0 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|----------------------|--------------|----|---|
| 4-BROMOFLUOROBENZENE | (86 - 115 %) | 97 | % |
| TOLUENE-D8 | (88 - 110 %) | 98 | % |
| 1-BROMOFLUOROMETHANE | (86 - 118 %) | 97 | % |



PROJECT NAME Griffin IRM
 PROJECT MANAGER/CONTACT Mark Schmidt
 COMPANY/ADDRESS 30775 Bainbridge Rd
Solon, Ohio
 TEL (440) 349-2708 FAX (440) 349-1514
 SAMPLER'S SIGNATURE Bob Fabian

| | | | | | ANALYSIS REQUESTED | | | | | | | | | | | | | | | PRESERVATION | | |
|---------------------|-----------------|--------------|---------------------------------|------------------|--------------------|--|--|--|--|--|--|--|---|------------------------|--------------|-------------------|----------|---------|-------|--------------|--|--|
| SAMPLE I.D. | DATE | TIME | FOR OFFICE USE ONLY LAB I.D. | SAMPLE MATRIX | # OF CONTAINERS | GC/MS VOA's | GC/MS SVOA's | GC VOA's | PESTICIDES/PCB's | STAR'S LIST 8021 VOA's | STAR'S LIST 8270 SVOA's | TCLP | VOA's | WASTE CHARACTERIZATION | METALS TOTAL | METALS, DISSOLVED | pH < 2.0 | pH > 12 | Other | | | |
| | | | | | | <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 95-1 | <input type="checkbox"/> 8270 <input type="checkbox"/> 625 <input type="checkbox"/> 95-2 | <input type="checkbox"/> 8021 <input type="checkbox"/> 601/602 | <input type="checkbox"/> 8081 <input type="checkbox"/> 608 <input type="checkbox"/> 95-3 | <input type="checkbox"/> TOTAL <input type="checkbox"/> TCLP | <input type="checkbox"/> TOTAL <input type="checkbox"/> TCLP | <input type="checkbox"/> METALS <input type="checkbox"/> SVOA's <input type="checkbox"/> H/P | <input type="checkbox"/> React <input type="checkbox"/> Corros. <input type="checkbox"/> Ignit. | (LIST BELOW) | (LIST BELOW) | | | | | | | |
| <u>EFF-11-20-99</u> | <u>11-20-99</u> | <u>08:40</u> | <u>343665</u> | <u>WATER</u> | <u>2</u> | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY:
 Signature Bob Fabian
 Printed Name Bob Fabian
 Firm URS INC
 Date/Time 11-20-99 09:26

RECEIVED BY:
 Signature Gregory D. Gmonir
 Printed Name Gregory D. Gmonir
 Firm CAS
 Date/Time 11-20-99 9:25

TURNAROUND REQUIREMENTS
 ___ 24 hr. ___ 48 hr. ___ 5 day
 ___ Standard (10-15 working days)
 ___ Provide Verbal Preliminary Results
 ___ Provide FAX Preliminary Results
 Requested Report Date _____

REPORT REQUIREMENTS
 ___ 1. Routine Report
 ___ 2. Routine Rep. w/CASE Narrative
 ___ 3. EPA Level III Validatable Package
 ___ 4. N.J. Reduced Deliverables Level IV
 ___ 5. NY ASP/CLP Deliverables
 ___ 6. Site specific QC.

INVOICE INFORMATION:
 P.O. #: _____
 Bill To: _____

SAMPLE RECEIPT:
 Shipping Via: Client
 Shipping #: _____
 Temperature: 12.8
 Submission No: 11-310

RELINQUISHED BY:
 Signature _____
 Printed Name _____
 Firm _____
 Date/Time _____

RECEIVED BY:
 Signature Brian Colton
 Printed Name Brian Colton
 Firm CAS
 Date/Time 11/20/99 9:23

SPECIAL INSTRUCTIONS/COMMENTS:
 METALS
 ORGANICS: TCL PPL AE Only BN Only Special List

RELINQUISHED BY:
 Signature _____
 Printed Name _____
 Firm _____
 Date/Time _____

RECEIVED BY:
 Signature _____
 Printed Name _____
 Firm _____
 Date/Time _____

**Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form**

Project/Client WCC4 Submission Number 11-310

Cooler received on 11-20-99 and opened on 11-20-99 by [Signature]

1. Were custody seals on outside of cooler? YES NO
2. Were signature & date correct? YES NO
3. Were custody papers properly filled out (ink, signed, etc)? YES NO
4. Did all bottles arrive in good condition (unbroken)? YES NO
5. Were all bottle labels complete (i.e. analysis, preservation, etc)? YES NO
6. Did all bottle labels and tags agree with custody papers? YES NO
7. Were correct bottles used for the tests indicated? YES NO
8. Were VOA vials checked for absence of air bubbles, and noted if so? YES NO
9. Where did the bottles originate? CAS/A CAS/K CAS/S CAS/L CAS/X CAS/J CAS/R

10. Temperature of cooler(s) upon receipt: 12.8

Is the temperature within 4 ± 2° C?: Yes No Yes No Yes No Yes No Yes No

If No, Explain Below

Date/Time Temperatures Taken: 9:25 11-20-99

Thermometer ID: IR 6111 Circle One: Temp Blank Sample Bottle Cooler Temp.

Explain any discrepancies: _____

| | | YES | NO | Sample I.D. | Reagent | Vol. Added |
|------|--------------------------------|-----|----|-------------|---------|------------|
| pH | Reagent | | | | | |
| 12 | NaOH | | | | | |
| 2 | HNO ₃ | | | | | |
| 2 | H ₂ SO ₄ | | | | | |
| 5-9* | P/PCBs (608 only) | | | | | |

YES = All samples OK
NO = Samples were preserved at lab as listed
*If pH adjustment is required, use NaOH and/or H₂SO₄

| VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2 | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

CLIENT NOTIFICATION: _____



A FULL SERVICE ENVIRONMENTAL LABORATORY

October 27, 1999

Mr. Mark Schmidt
URS Greiner Woodward Clyde
30775 Bainbridge Road
Suite 200
Solon, OH 44139

PROJECT: GRIFFIN IRM
Submission #: 9910000128

Dear Mr. Schmidt

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read 'Mark Wilson'.

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal.

A handwritten signature in cursive script, likely belonging to the QA Department/Laboratory Director mentioned in the text.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

| | | | |
|------------------------|---------|-----------------------|----------|
| NY ID # in Rochester: | 10145 | NJ ID # in Rochester: | 73004 |
| CT ID # in Rochester: | PH0556 | RI ID # in Rochester: | 158 |
| MA ID # in Rochester: | M-NY032 | NH ID # in Rochester: | 294198-A |
| OH EPA # in Rochester: | VAP | AIHA # in Rochester: | 7889 |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 10/27/99

URS Greiner Woodward Clyde
 Project Reference: GRIFFIN IRM
 Client Sample ID : EFF-10-8-99

Date Sampled : 10/08/99 Order #: 331248 Sample Matrix: WATER
 Date Received: 10/08/99 Submission #: 9910000128 Analytical Run 44143

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|------------|--------|-------|
| DATE ANALYZED | : 10/14/99 | | |
| ANALYTICAL DILUTION: | 5.00 | | |
| ACETONE | 20 | 100 U | UG/L |
| BENZENE | 5.0 | 25 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 25 U | UG/L |
| BROMOFORM | 5.0 | 25 U | UG/L |
| BROMOMETHANE | 5.0 | 25 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 50 U | UG/L |
| CARBON DISULFIDE | 10 | 50 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 25 U | UG/L |
| CHLOROBENZENE | 5.0 | 25 U | UG/L |
| CHLOROETHANE | 5.0 | 25 U | UG/L |
| CHLOROFORM | 5.0 | 25 U | UG/L |
| CHLOROMETHANE | 5.0 | 25 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 25 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 25 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 25 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 25 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 25 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 25 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 25 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 25 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 25 U | UG/L |
| ETHYLBENZENE | 5.0 | 25 U | UG/L |
| 2-HEXANONE | 10 | 50 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 25 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 50 U | UG/L |
| STYRENE | 5.0 | 25 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 25 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 25 U | UG/L |
| TOLUENE | 5.0 | 25 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 25 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 25 U | UG/L |
| TRICHLOROETHENE | 5.0 | 500 | UG/L |
| VINYL CHLORIDE | 5.0 | 25 U | UG/L |
| O-XYLENE | 5.0 | 25 U | UG/L |
| M+P-XYLENE | 5.0 | 25 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|----------------------|--------------|-----|---|
| 1-BROMOFLUOROBENZENE | (86 - 115 %) | 96 | % |
| TOLUENE-D8 | (88 - 110 %) | 97 | % |
| DIBROMOFLUOROMETHANE | (86 - 118 %) | 100 | % |

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 10/27/99

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 335259 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 44143

| ANALYTE | PQL | RESULT | UNITS |
|-----------------------------|-----|--------|-------|
| DATE ANALYZED : 10/14/99 | | | |
| ANALYTICAL DILUTION: 1.00 | | | |
| ACETONE | 20 | 20 U | UG/L |
| BENZENE | 5.0 | 5.0 U | UG/L |
| BROMODICHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| BROMOFORM | 5.0 | 5.0 U | UG/L |
| BROMOMETHANE | 5.0 | 5.0 U | UG/L |
| 2-BUTANONE (MEK) | 10 | 10 U | UG/L |
| CARBON DISULFIDE | 10 | 10 U | UG/L |
| CARBON TETRACHLORIDE | 5.0 | 5.0 U | UG/L |
| CHLOROBENZENE | 5.0 | 5.0 U | UG/L |
| CHLOROETHANE | 5.0 | 5.0 U | UG/L |
| CHLOROFORM | 5.0 | 5.0 U | UG/L |
| CHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| DIBROMOCHLOROMETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| CIS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,2-DICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| 1,2-DICHLOROPROPANE | 5.0 | 5.0 U | UG/L |
| CIS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| TRANS-1,3-DICHLOROPROPENE | 5.0 | 5.0 U | UG/L |
| ETHYLBENZENE | 5.0 | 5.0 U | UG/L |
| 2-HEXANONE | 10 | 10 U | UG/L |
| METHYLENE CHLORIDE | 5.0 | 5.0 U | UG/L |
| 4-METHYL-2-PENTANONE (MIBK) | 10 | 10 U | UG/L |
| STYRENE | 5.0 | 5.0 U | UG/L |
| 1,1,2,2-TETRACHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TETRACHLOROETHENE | 5.0 | 5.0 U | UG/L |
| TOLUENE | 5.0 | 5.0 U | UG/L |
| 1,1,1-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| 1,1,2-TRICHLOROETHANE | 5.0 | 5.0 U | UG/L |
| TRICHLOROETHENE | 5.0 | 5.0 U | UG/L |
| VINYL CHLORIDE | 5.0 | 5.0 U | UG/L |
| O-XYLENE | 5.0 | 5.0 U | UG/L |
| M+P-XYLENE | 5.0 | 5.0 U | UG/L |

SURROGATE RECOVERIES

QC LIMITS

| | | | |
|----------------------|--------------|-----|---|
| 4-BROMOFLUOROBENZENE | (86 - 115 %) | 95 | % |
| TOLUENE-D8 | (88 - 110 %) | 97 | % |
| 1-BROMOFLUOROMETHANE | (86 - 118 %) | 103 | % |

Project/Client United REF. Submission Number 10-128

Cooler received on 10/8 and opened on 10/8 by BC

1. Were custody seals on outside of cooler? YES NO
If yes, how many and where? client
2. Were signature & date correct? YES NO Delivered
3. Were custody papers properly filled out (ink, signed, etc)? YES NO
4. Did all bottles arrive in good condition (unbroken)? YES NO
5. Were all bottle labels complete (i.e. analysis, preservation, etc)? YES NO
6. Did all bottle labels and tags agree with custody papers? YES NO
7. Were correct bottles used for the tests indicated? YES NO
8. Were VOA vials checked for absence of air bubbles, and noted if so? YES NO
9. Where did the bottles originate? CAS/A CAS/K CAS/S CAS/L CAS/X CAS/J CAS/R
10. Temperature of cooler(s) upon receipt: 6.0

Is the temperature within $4 \pm 2^\circ \text{C}$?
 Yes No Yes No Yes No Yes No Yes No

If No, Explain Below: 10/8/99 1205

Date/Time Temperatures Taken: 10/8/99 1205
 Thermometer ID: 161 Circle One: Temp Blank Sample Bottle Cooler Temp.

Explain any discrepancies: _____

| | | YES | NO | Sample I.D. | Reagent | Vol. Added |
|------|--------------------------------|-----|----|-------------|---------|------------|
| pH | Reagent | | | | | |
| 12 | NaOH | | | | | |
| 2 | HNO ₃ | | | | | |
| 2 | H ₂ SO ₄ | | | | | |
| 5-9* | P/PCBs (608 only) | | | | | |

YES = All samples OK
 NO = Samples were preserved at lab as listed
 *If pH adjustment is required, use NaOH and/or H₂SO₄

| VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2 | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

CLIENT NOTIFICATION: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367790

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7399

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | Q, C |
|------------|---------------------------|--|---|------|
| 74-87-3 | Chloromethane | 10 U | | |
| 75-01-4 | Vinyl Chloride | 10 U | | |
| 74-83-9 | Bromomethane | 10 U | | |
| 75-00-3 | Chloroethane | 10 U | | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | | |
| 67-64-1 | Acetone | 10 U | | |
| 75-15-0 | Carbon Disulfide | 10 U | | |
| 75-09-2 | Methylene Chloride | 10 U | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 U | | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | | |
| 67-66-3 | Chloroform | 10 U | | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 U | | |
| 56-23-5 | Carbon Tetrachloride | 10 U | | |
| 71-43-2 | Benzene | 10 U | | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | | |
| 79-01-6 | Trichloroethene | 10 U | | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | | |
| 75-27-4 | Bromodichloromethane | 10 U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | | |
| 108-88-3 | Toluene | 10 U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | | |
| 127-18-4 | Tetrachloroethene | 10 U | | |
| 591-78-6 | 2-Hexanone | 10 U | | |
| 124-48-1 | Dibromochloromethane | 10 U | | |
| 108-90-7 | Chlorobenzene | 10 U | | |
| 100-41-4 | Ethylbenzene | 10 U | | |
| 1330-20-7 | (m+p) Xylene | 10 U | | |
| 1330-20-7 | o-Xylene | 10 U | | |
| 100-42-5 | Styrene | 10 U | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367790

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7399

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | Q |
|--------------|---------------------------|--|---|---|
| 75-25-2----- | Bromoform | 10 | U | |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-1

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367790

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7399

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q/L
R B

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|---|
| 1. | UNKNOWN | 2.57 | 12 | J |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
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| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367793

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7414

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | |
|------------|---------------------------|--|---|------|
| 74-87-3 | Chloromethane | 10 | U | |
| 75-01-4 | Vinyl Chloride | 10 | U | |
| 74-83-9 | Bromomethane | 10 | U | |
| 75-00-3 | Chloroethane | 10 | U | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | |
| 67-64-1 | Acetone | 10 | U | UJ C |
| 75-15-0 | Carbon Disulfide | 10 | U | |
| 75-09-2 | Methylene Chloride | 10 | U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 | U | |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | UJ C |
| 67-66-3 | Chloroform | 10 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U | |
| 56-23-5 | Carbon Tetrachloride | 10 | U | |
| 71-43-2 | Benzene | 10 | U | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | |
| 79-01-6 | Trichloroethene | 6 | J | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | |
| 75-27-4 | Bromodichloromethane | 10 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U | |
| 108-88-3 | Toluene | 10 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U | |
| 127-18-4 | Tetrachloroethene | 10 | U | |
| 591-78-6 | 2-Hexanone | 10 | U | UJ C |
| 124-48-1 | Dibromochloromethane | 10 | U | |
| 108-90-7 | Chlorobenzene | 10 | U | |
| 100-41-4 | Ethylbenzene | 10 | U | |
| 1330-20-7 | (m+p) Xylene | 10 | U | |
| 1330-20-7 | o-Xylene | 10 | U | |
| 100-42-5 | Styrene | 10 | U | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367793

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7414

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-2S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367793

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7414

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

G, C

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q | |
|------------|---------------|-------|------------|----|-----|
| 1. | UNKNOWN | 2.55 | 13 | JB | R B |
| 2. | UNKNOWN | 16.48 | 10 | J | R B |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367795

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7400

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | Q | C |
|------------|--------------------------------|--|---|---|---|
| 74-87-3 | -----Chloromethane | 10 U | | | |
| 75-01-4 | -----Vinyl Chloride | 10 U | | | |
| 74-83-9 | -----Bromomethane | 10 U | | | |
| 75-00-3 | -----Chloroethane | 10 U | | | |
| 75-35-4 | -----1,1-Dichloroethene | 10 U | | | |
| 67-64-1 | -----Acetone | 10 U | | U | C |
| 75-15-0 | -----Carbon Disulfide | 10 U | | | |
| 75-09-2 | -----Methylene Chloride | 10 U | | | |
| 156-60-5 | -----trans-1,2-Dichloroethene | 10 U | | | |
| 75-34-3 | -----1,1-Dichloroethane | 10 U | | | |
| 156-59-4 | -----cis-1,2-Dichloroethene | 10 U | | | |
| 78-93-3 | -----2-Butanone (MEK) | 10 U | | U | C |
| 67-66-3 | -----Chloroform | 10 U | | | |
| 71-55-6 | -----1,1,1-Trichloroethane | 10 U | | | |
| 56-23-5 | -----Carbon Tetrachloride | 10 U | | | |
| 71-43-2 | -----Benzene | 10 U | | | |
| 107-06-2 | -----1,2-Dichloroethane | 10 U | | | |
| 79-01-6 | -----Trichloroethene | 93 | | | |
| 78-87-5 | -----1,2-Dichloropropane | 10 U | | | |
| 75-27-4 | -----Bromodichloromethane | 10 U | | | |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 10 U | | | |
| 108-10-1 | -----4-Methyl-2-Pentanone | 10 U | | | |
| 108-88-3 | -----Toluene | 10 U | | | |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 10 U | | | |
| 79-00-5 | -----1,1,2-Trichloroethane | 10 U | | | |
| 127-18-4 | -----Tetrachloroethene | 10 U | | | |
| 591-78-6 | -----2-Hexanone | 10 U | | U | C |
| 124-48-1 | -----Dibromochloromethane | 10 U | | | |
| 108-90-7 | -----Chlorobenzene | 10 U | | | |
| 100-41-4 | -----Ethylbenzene | 10 U | | | |
| 1330-20-7 | ----- (m+p) Xylene | 10 U | | | |
| 1330-20-7 | -----o-Xylene | 10 U | | | |
| 100-42-5 | -----Styrene | 10 U | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367795

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7400

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|--------------|---------------------------|----|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-3

Lab Name: CAS-ROC Contract: WCC
 Lab Code: 10145 Case No.: R20-1413 SAS No.: SDG No.: MW1
 Matrix: (soil/water) WATER Lab Sample ID: 367795
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: Q7400
 Level: (low/med) LOW Date Received: 03/28/00
 % Moisture: not dec. _____ Date Analyzed: 04/04/00
 GC Column: HP624 ID: 2.00 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q | |
|------------|---------------|------|------------|---|-----|
| 1. | UNKNOWN | 2.54 | 12 | J | R B |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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Q, C
R B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367796

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7415

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | | |
|------------|---------------------------|--|---|----|---|
| 74-87-3 | Chloromethane | 10 | U | | |
| 75-01-4 | Vinyl Chloride | 10 | U | | |
| 74-83-9 | Bromomethane | 10 | U | | |
| 75-00-3 | Chloroethane | 10 | U | | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | | |
| 67-64-1 | Acetone | 10 | U | UJ | C |
| 75-15-0 | Carbon Disulfide | 10 | U | | |
| 75-09-2 | Methylene Chloride | 10 | U | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 | U | | |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | UJ | C |
| 67-66-3 | Chloroform | 10 | U | | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U | | |
| 56-23-5 | Carbon Tetrachloride | 10 | U | | |
| 71-43-2 | Benzene | 10 | U | | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | | |
| 79-01-6 | Trichloroethene | 9 | J | | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | | |
| 75-27-4 | Bromodichloromethane | 10 | U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U | | |
| 108-88-3 | Toluene | 10 | U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U | | |
| 127-18-4 | Tetrachloroethene | 10 | U | | |
| 591-78-6 | 2-Hexanone | 10 | U | UJ | C |
| 124-48-1 | Dibromochloromethane | 10 | U | | |
| 108-90-7 | Chlorobenzene | 10 | U | | |
| 100-41-4 | Ethylbenzene | 10 | U | | |
| 1330-20-7 | (m+p)Xylene | 10 | U | | |
| 1330-20-7 | o-Xylene | 10 | U | | |
| 100-42-5 | Styrene | 10 | U | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367796

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7415

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367796

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7415

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

QC

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|--------|
| 1. | UNKNOWN | 2.56 | 12 | JB R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367798

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7416

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | Q | C |
|------------|--------------------------------|--|---|---|-----|
| 74-87-3 | -----Chloromethane | 10 U | | | |
| 75-01-4 | -----Vinyl Chloride | 10 U | | | |
| 74-83-9 | -----Bromomethane | 10 U | | | |
| 75-00-3 | -----Chloroethane | 10 U | | | |
| 75-35-4 | -----1,1-Dichloroethene | 10 U | | | |
| 67-64-1 | -----Acetone | 10 U | | | UJC |
| 75-15-0 | -----Carbon Disulfide | 10 U | | | |
| 75-09-2 | -----Methylene Chloride | 10 U | | | |
| 156-60-5 | -----trans-1,2-Dichloroethene | 10 U | | | |
| 75-34-3 | -----1,1-Dichloroethane | 10 U | | | |
| 156-59-4 | -----cis-1,2-Dichloroethene | 10 U | | | |
| 78-93-3 | -----2-Butanone (MEK) | 10 U | | | UJC |
| 67-66-3 | -----Chloroform | 10 U | | | |
| 71-55-6 | -----1,1,1-Trichloroethane | 4 J | | | |
| 56-23-5 | -----Carbon Tetrachloride | 10 U | | | |
| 71-43-2 | -----Benzene | 10 U | | | |
| 107-06-2 | -----1,2-Dichloroethane | 10 U | | | |
| 79-01-6 | -----Trichloroethene | 140 | | | |
| 78-87-5 | -----1,2-Dichloropropane | 10 U | | | |
| 75-27-4 | -----Bromodichloromethane | 10 U | | | |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 10 U | | | |
| 108-10-1 | -----4-Methyl-2-Pentanone | 10 U | | | |
| 108-88-3 | -----Toluene | 10 U | | | |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 10 U | | | |
| 79-00-5 | -----1,1,2-Trichloroethane | 10 U | | | |
| 127-18-4 | -----Tetrachloroethene | 10 U | | | |
| 591-78-6 | -----2-Hexanone | 10 U | | | UJC |
| 124-48-1 | -----Dibromochloromethane | 10 U | | | |
| 108-90-7 | -----Chlorobenzene | 10 U | | | |
| 100-41-4 | -----Ethylbenzene | 10 U | | | |
| 1330-20-7 | ----- (m+p) Xylene | 10 U | | | |
| 1330-20-7 | -----o-Xylene | 10 U | | | |
| 100-42-5 | -----Styrene | 10 U | | | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367798

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7416

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

QC

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.57 | 15 | JB RC |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367799

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7396

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | |
|------------|--------------------------------|--|---|--|
| 74-87-3 | -----Chloromethane | 10 | U | |
| 75-01-4 | -----Vinyl Chloride | 10 | U | |
| 74-83-9 | -----Bromomethane | 10 | U | |
| 75-00-3 | -----Chloroethane | 10 | U | |
| 75-35-4 | -----1,1-Dichloroethene | 10 | U | |
| 67-64-1 | -----Acetone | 10 | U | |
| 75-15-0 | -----Carbon Disulfide | 10 | U | |
| 75-09-2 | -----Methylene Chloride | 10 | U | |
| 156-60-5 | -----trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | -----1,1-Dichloroethane | 10 | U | |
| 156-59-4 | -----cis-1,2-Dichloroethene | 10 | U | |
| 78-93-3 | -----2-Butanone (MEK) | 10 | U | |
| 67-66-3 | -----Chloroform | 10 | U | |
| 71-55-6 | -----1,1,1-Trichloroethane | 4 | J | |
| 56-23-5 | -----Carbon Tetrachloride | 10 | U | |
| 71-43-2 | -----Benzene | 10 | U | |
| 107-06-2 | -----1,2-Dichloroethane | 10 | U | |
| 79-01-6 | -----Trichloroethene | 190 | | |
| 78-87-5 | -----1,2-Dichloropropane | 10 | U | |
| 75-27-4 | -----Bromodichloromethane | 10 | U | |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 10 | U | |
| 108-10-1 | -----4-Methyl-2-Pentanone | 10 | U | |
| 108-88-3 | -----Toluene | 10 | U | |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 10 | U | |
| 79-00-5 | -----1,1,2-Trichloroethane | 10 | U | |
| 127-18-4 | -----Tetrachloroethene | 10 | U | |
| 591-78-6 | -----2-Hexanone | 10 | U | |
| 124-48-1 | -----Dibromochloromethane | 10 | U | |
| 108-90-7 | -----Chlorobenzene | 10 | U | |
| 100-41-4 | -----Ethylbenzene | 10 | U | |
| 1330-20-7 | ----- (m+p) Xylene | 10 | U | |
| 1330-20-7 | -----o-Xylene | 10 | U | |
| 100-42-5 | -----Styrene | 10 | U | |

Q Q C

UJ C

UJ C

UJ C

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-5D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367799

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7396

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|------|
| 1. | UNKNOWN | 2.53 | 12 | J RB |
| 2. | | | | |
| 3. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367800

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7401

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | |
|------------|---------------------------|--|----------------------------------|
| 74-87-3 | Chloromethane | 10 U | Q C U C U C U C |
| 75-01-4 | Vinyl Chloride | 10 U | |
| 74-83-9 | Bromomethane | 10 U | |
| 75-00-3 | Chloroethane | 10 U | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | |
| 67-64-1 | Acetone | 10 U | |
| 75-15-0 | Carbon Disulfide | 10 U | |
| 75-09-2 | Methylene Chloride | 10 U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 U | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | |
| 67-66-3 | Chloroform | 10 U | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 U | |
| 56-23-5 | Carbon Tetrachloride | 10 U | |
| 71-43-2 | Benzene | 10 U | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | |
| 79-01-6 | Trichloroethene | 3 J | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | |
| 75-27-4 | Bromodichloromethane | 10 U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | |
| 108-88-3 | Toluene | 10 U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | |
| 127-18-4 | Tetrachloroethene | 10 U | |
| 591-78-6 | 2-Hexanone | 10 U | |
| 124-48-1 | Dibromochloromethane | 10 U | |
| 108-90-7 | Chlorobenzene | 10 U | |
| 100-41-4 | Ethylbenzene | 10 U | |
| 1330-20-7 | (m+p) Xylene | 10 U | |
| 1330-20-7 | o-Xylene | 10 U | |
| 100-42-5 | Styrene | 10 U | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367800

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7401

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | | |
|--------------|---------------------------|----|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-6S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367800

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7401

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q, C
J
R B

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|---|
| 1. | UNKNOWN | 2.55 | 12 | J |
| 2. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367801

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7402

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | |
|------------|---------------------------|--|---|-----|
| 74-87-3 | Chloromethane | 10 | U | |
| 75-01-4 | Vinyl Chloride | 10 | U | |
| 74-83-9 | Bromomethane | 10 | U | |
| 75-00-3 | Chloroethane | 10 | U | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | |
| 67-64-1 | Acetone | 10 | U | UJC |
| 75-15-0 | Carbon Disulfide | 10 | U | |
| 75-09-2 | Methylene Chloride | 10 | U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | |
| 156-59-4 | cis-1,2-Dichloroethene | 1 | J | |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | UJC |
| 67-66-3 | Chloroform | 10 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | J | |
| 56-23-5 | Carbon Tetrachloride | 10 | U | |
| 71-43-2 | Benzene | 10 | U | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | |
| 79-01-6 | Trichloroethene | 89 | | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | |
| 75-27-4 | Bromodichloromethane | 10 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U | |
| 108-88-3 | Toluene | 10 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U | |
| 127-18-4 | Tetrachloroethene | 10 | U | |
| 591-78-6 | 2-Hexanone | 10 | U | UJC |
| 124-48-1 | Dibromochloromethane | 10 | U | |
| 108-90-7 | Chlorobenzene | 10 | U | |
| 100-41-4 | Ethylbenzene | 10 | U | |
| 1330-20-7 | (m+p)Xylene | 10 | U | |
| 1330-20-7 | o-Xylene | 10 | U | |
| 100-42-5 | Styrene | 10 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-6D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367801

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7402

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

QC

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|------|
| 1. | UNKNOWN | 2.55 | 12 | J RB |
| 2. | | | | |
| 3. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367802

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7395

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 2.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | |
|------------|--------------------------------|--|---|------|
| 74-87-3 | -----Chloromethane | 20 | U | |
| 75-01-4 | -----Vinyl Chloride | 20 | U | |
| 74-83-9 | -----Bromomethane | 20 | U | |
| 75-00-3 | -----Chloroethane | 20 | U | |
| 75-35-4 | -----1,1-Dichloroethene | 20 | U | |
| 67-64-1 | -----Acetone | 20 | U | UJ C |
| 75-15-0 | -----Carbon Disulfide | 20 | U | |
| 75-09-2 | -----Methylene Chloride | 20 | U | |
| 156-60-5 | -----trans-1,2-Dichloroethene | 20 | U | |
| 75-34-3 | -----1,1-Dichloroethane | 20 | U | |
| 156-59-4 | -----cis-1,2-Dichloroethene | 3 | J | UJ C |
| 78-93-3 | -----2-Butanone (MEK) | 20 | U | |
| 67-66-3 | -----Chloroform | 20 | U | |
| 71-55-6 | -----1,1,1-Trichloroethane | 4 | J | |
| 56-23-5 | -----Carbon Tetrachloride | 20 | U | |
| 71-43-2 | -----Benzene | 20 | U | |
| 107-06-2 | -----1,2-Dichloroethane | 20 | U | |
| 79-01-6 | -----Trichloroethene | 210 | | |
| 78-87-5 | -----1,2-Dichloropropane | 20 | U | |
| 75-27-4 | -----Bromodichloromethane | 20 | U | |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 20 | U | |
| 108-10-1 | -----4-Methyl-2-Pentanone | 20 | U | |
| 108-88-3 | -----Toluene | 20 | U | |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 20 | U | |
| 79-00-5 | -----1,1,2-Trichloroethane | 20 | U | |
| 127-18-4 | -----Tetrachloroethene | 20 | U | |
| 591-78-6 | -----2-Hexanone | 20 | U | UJ C |
| 124-48-1 | -----Dibromochloromethane | 20 | U | |
| 108-90-7 | -----Chlorobenzene | 20 | U | |
| 100-41-4 | -----Ethylbenzene | 20 | U | |
| 1330-20-7 | ----- (m+p) Xylene | 20 | U | |
| 1330-20-7 | -----o-Xylene | 20 | U | |
| 100-42-5 | -----Styrene | 20 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-7S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367802

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7395

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 2.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.55 | 29 | J R B |
| 2. | | | | |
| 3. | | | | |
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Q C

R B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7D

Lab Name: CAS-ROC Contract: WCC
 Lab Code: 10145 Case No.: R20-1413 SAS No.: SDG No.: MW1
 Matrix: (soil/water) WATER Lab Sample ID: 367803
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: Q7403
 Level: (low/med) LOW Date Received: 03/28/00
 % Moisture: not dec. _____ Date Analyzed: 04/04/00
 GC Column: HP624 ID: 2.00 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | Q | C |
|------------|---------------------------|--|---|---|-----|
| 74-87-3 | Chloromethane | 10 U | | | |
| 75-01-4 | Vinyl Chloride | 4 J | | | |
| 74-83-9 | Bromomethane | 10 U | | | |
| 75-00-3 | Chloroethane | 10 U | | | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | | | |
| 67-64-1 | Acetone | 10 U | | | U/C |
| 75-15-0 | Carbon Disulfide | 10 U | | | |
| 75-09-2 | Methylene Chloride | 10 U | | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | | | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | | | |
| 156-59-4 | cis-1,2-Dichloroethene | 19 | | | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | | | U/C |
| 67-66-3 | Chloroform | 10 U | | | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 U | | | |
| 56-23-5 | Carbon Tetrachloride | 10 U | | | |
| 71-43-2 | Benzene | 10 U | | | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | | | |
| 79-01-6 | Trichloroethene | 130 | | | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | | | |
| 75-27-4 | Bromodichloromethane | 10 U | | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | | | |
| 108-88-3 | Toluene | 10 U | | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | | | |
| 127-18-4 | Tetrachloroethene | 10 U | | | |
| 591-78-6 | 2-Hexanone | 10 U | | | U/C |
| 124-48-1 | Dibromochloromethane | 10 U | | | |
| 108-90-7 | Chlorobenzene | 10 U | | | |
| 100-41-4 | Ethylbenzene | 10 U | | | |
| 1330-20-7 | (m+p) Xylene | 10 U | | | |
| 1330-20-7 | o-Xylene | 10 U | | | |
| 100-42-5 | Styrene | 10 U | | | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-7D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367803

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7403

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.56 | 11 | J R C |
| 2. | | | | |
| 3. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367804

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7404

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | |
|------------|---------------------------|--|---|----|
| 74-87-3 | Chloromethane | 10 | U | |
| 75-01-4 | Vinyl Chloride | 10 | U | |
| 74-83-9 | Bromomethane | 10 | U | |
| 75-00-3 | Chloroethane | 10 | U | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | |
| 67-64-1 | Acetone | 10 | U | WC |
| 75-15-0 | Carbon Disulfide | 10 | U | |
| 75-09-2 | Methylene Chloride | 10 | U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 | U | WC |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | WC |
| 67-66-3 | Chloroform | 10 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U | |
| 56-23-5 | Carbon Tetrachloride | 10 | U | |
| 71-43-2 | Benzene | 10 | U | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | |
| 79-01-6 | Trichloroethene | 10 | U | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | |
| 75-27-4 | Bromodichloromethane | 10 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U | |
| 108-88-3 | Toluene | 10 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U | |
| 127-18-4 | Tetrachloroethene | 10 | U | |
| 591-78-6 | 2-Hexanone | 10 | U | WC |
| 124-48-1 | Dibromochloromethane | 10 | U | |
| 108-90-7 | Chlorobenzene | 10 | U | |
| 100-41-4 | Ethylbenzene | 10 | U | |
| 1330-20-7 | (m+p) Xylene | 10 | U | |
| 1330-20-7 | o-Xylene | 10 | U | |
| 100-42-5 | Styrene | 10 | U | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367804

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7404

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-9S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367804

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7404

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

QIC

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.56 | 11 | J R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367805

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7405

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | |
|------------|---------------------------|--|---|--|
| 74-87-3 | Chloromethane | 10 | U | |
| 75-01-4 | Vinyl Chloride | 10 | U | |
| 74-83-9 | Bromomethane | 10 | U | |
| 75-00-3 | Chloroethane | 10 | U | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | |
| 67-64-1 | Acetone | 10 | U | |
| 75-15-0 | Carbon Disulfide | 10 | U | |
| 75-09-2 | Methylene Chloride | 10 | U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 | U | |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | |
| 67-66-3 | Chloroform | 10 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U | |
| 56-23-5 | Carbon Tetrachloride | 10 | U | |
| 71-43-2 | Benzene | 10 | U | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | |
| 79-01-6 | Trichloroethene | 10 | U | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | |
| 75-27-4 | Bromodichloromethane | 10 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U | |
| 108-88-3 | Toluene | 10 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U | |
| 127-18-4 | Tetrachloroethene | 10 | U | |
| 591-78-6 | 2-Hexanone | 10 | U | |
| 124-48-1 | Dibromochloromethane | 10 | U | |
| 108-90-7 | Chlorobenzene | 10 | U | |
| 100-41-4 | Ethylbenzene | 10 | U | |
| 1330-20-7 | (m+p)Xylene | 10 | U | |
| 1330-20-7 | o-Xylene | 10 | U | |
| 100-42-5 | Styrene | 10 | U | |

Q A C
UJC
UJMC
UJC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367805

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7405

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-9D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367805

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7405

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

R1C

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.55 | 11 | J R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367806

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7406

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | A | C |
|------------|---------------------------|--|---|---|---|
| 74-87-3 | Chloromethane | 10 U | | | |
| 75-01-4 | Vinyl Chloride | 10 U | | | |
| 74-83-9 | Bromomethane | 10 U | | | |
| 75-00-3 | Chloroethane | 10 U | | | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | | | |
| 67-64-1 | Acetone | 10 U | | | |
| 75-15-0 | Carbon Disulfide | 10 U | | | |
| 75-09-2 | Methylene Chloride | 10 U | | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | | | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | | | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 U | | | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | | | |
| 67-66-3 | Chloroform | 10 U | | | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 U | | | |
| 56-23-5 | Carbon Tetrachloride | 10 U | | | |
| 71-43-2 | Benzene | 10 U | | | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | | | |
| 79-01-6 | Trichloroethene | 1 J | | | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | | | |
| 75-27-4 | Bromodichloromethane | 10 U | | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | | | |
| 108-88-3 | Toluene | 10 U | | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | | | |
| 127-18-4 | Tetrachloroethene | 10 U | | | |
| 591-78-6 | 2-Hexanone | 10 U | | | |
| 124-48-1 | Dibromochloromethane | 10 U | | | |
| 108-90-7 | Chlorobenzene | 10 U | | | |
| 100-41-4 | Ethylbenzene | 10 U | | | |
| 1330-20-7 | (m+p)Xylene | 10 U | | | |
| 1330-20-7 | o-Xylene | 10 U | | | |
| 100-42-5 | Styrene | 10 U | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|--------|
| MW-10S |
|--------|

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367806

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7406

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-10S

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367806

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7406

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | J |
|------------|---------------|------|------------|---|
| 1. | UNKNOWN | 2.56 | 10 | J |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367807

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7407

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | |
|------------|--------------------------------|--|--|
| 74-87-3 | -----Chloromethane | 10 U | Q C <hr/> U C <hr/> U C |
| 75-01-4 | -----Vinyl Chloride | 10 U | |
| 74-83-9 | -----Bromomethane | 10 U | |
| 75-00-3 | -----Chloroethane | 10 U | |
| 75-35-4 | -----1,1-Dichloroethene | 10 U | |
| 67-64-1 | -----Acetone | 10 U | |
| 75-15-0 | -----Carbon Disulfide | 10 U | |
| 75-09-2 | -----Methylene Chloride | 10 U | |
| 156-60-5 | -----trans-1,2-Dichloroethene | 10 U | |
| 75-34-3 | -----1,1-Dichloroethane | 10 U | |
| 156-59-4 | -----cis-1,2-Dichloroethene | 10 U | |
| 78-93-3 | -----2-Butanone (MEK) | 10 U | |
| 67-66-3 | -----Chloroform | 10 U | |
| 71-55-6 | -----1,1,1-Trichloroethane | 10 U | |
| 56-23-5 | -----Carbon Tetrachloride | 10 U | |
| 71-43-2 | -----Benzene | 10 U | |
| 107-06-2 | -----1,2-Dichloroethane | 10 U | |
| 79-01-6 | -----Trichloroethene | 3 J | |
| 78-87-5 | -----1,2-Dichloropropane | 10 U | |
| 75-27-4 | -----Bromodichloromethane | 10 U | |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 10 U | |
| 108-10-1 | -----4-Methyl-2-Pentanone | 10 U | |
| 108-88-3 | -----Toluene | 10 U | |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 10 U | |
| 79-00-5 | -----1,1,2-Trichloroethane | 10 U | |
| 127-18-4 | -----Tetrachloroethene | 10 U | |
| 591-78-6 | -----2-Hexanone | 10 U | |
| 124-48-1 | -----Dibromochloromethane | 10 U | |
| 108-90-7 | -----Chlorobenzene | 10 U | |
| 100-41-4 | -----Ethylbenzene | 10 U | |
| 1330-20-7 | ----- (m+p) Xylene | 10 U | |
| 1330-20-7 | -----o-Xylene | 10 U | |
| 100-42-5 | -----Styrene | 10 U | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|--------|
| MW-10D |
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Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367807

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7407

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | | |
|--------------|---------------------------|----|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-10D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367807

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7407

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.54 | 10 | J R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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| 29. | | | | |
| 30. | | | | |

Q C
J R B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367808

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7408

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | |
|------------|--------------------------------|--|---|-----|
| 74-87-3 | -----Chloromethane | 10 | U | |
| 75-01-4 | -----Vinyl Chloride | 10 | U | |
| 74-83-9 | -----Bromomethane | 10 | U | |
| 75-00-3 | -----Chloroethane | 10 | U | |
| 75-35-4 | -----1,1-Dichloroethene | 10 | U | |
| 67-64-1 | -----Acetone | 10 | U | Q C |
| 75-15-0 | -----Carbon Disulfide | 10 | U | |
| 75-09-2 | -----Methylene Chloride | 10 | U | |
| 156-60-5 | -----trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | -----1,1-Dichloroethane | 10 | U | |
| 156-59-4 | *-----cis-1,2-Dichloroethene | 10 | U | |
| 78-93-3 | -----2-Butanone (MEK) | 10 | U | U C |
| 67-66-3 | -----Chloroform | 10 | U | |
| 71-55-6 | -----1,1,1-Trichloroethane | 10 | U | |
| 56-23-5 | -----Carbon Tetrachloride | 10 | U | |
| 71-43-2 | -----Benzene | 10 | U | |
| 107-06-2 | -----1,2-Dichloroethane | 10 | U | |
| 79-01-6 | -----Trichloroethene | 10 | U | |
| 78-87-5 | -----1,2-Dichloropropane | 10 | U | |
| 75-27-4 | -----Bromodichloromethane | 10 | U | |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 10 | U | |
| 108-10-1 | -----4-Methyl-2-Pentanone | 10 | U | |
| 108-88-3 | -----Toluene | 10 | U | |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 10 | U | |
| 79-00-5 | -----1,1,2-Trichloroethane | 10 | U | |
| 127-18-4 | -----Tetrachloroethene | 10 | U | |
| 591-78-6 | -----2-Hexanone | 10 | U | U C |
| 124-48-1 | -----Dibromochloromethane | 10 | U | |
| 108-90-7 | -----Chlorobenzene | 10 | U | |
| 100-41-4 | -----Ethylbenzene | 10 | U | |
| 1330-20-7 | ----- (m+p) Xylene | 10 | U | |
| 1330-20-7 | ----- o-Xylene | 10 | U | |
| 100-42-5 | -----Styrene | 10 | U | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-11D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367808

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7408

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q | C

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.55 | 11 | J R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367809

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7409

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | QC |
|------------|---------------------------|--|---|------|
| 74-87-3 | Chloromethane | 10 U | | |
| 75-01-4 | Vinyl Chloride | 10 U | | |
| 74-83-9 | Bromomethane | 10 U | | |
| 75-00-3 | Chloroethane | 10 U | | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | | |
| 67-64-1 | Acetone | 10 U | | US C |
| 75-15-0 | Carbon Disulfide | 10 U | | |
| 75-09-2 | Methylene Chloride | 10 U | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 U | | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | | US C |
| 67-66-3 | Chloroform | 10 U | | |
| 71-55-6 | 1,1,1-Trichloroethane | 2 J | | |
| 56-23-5 | Carbon Tetrachloride | 10 U | | |
| 71-43-2 | Benzene | 10 U | | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | | |
| 79-01-6 | Trichloroethene | 85 | | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | | |
| 75-27-4 | Bromodichloromethane | 10 U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | | |
| 108-88-3 | Toluene | 10 U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | | |
| 127-18-4 | Tetrachloroethene | 10 U | | |
| 591-78-6 | 2-Hexanone | 10 U | | US C |
| 124-48-1 | Dibromochloromethane | 10 U | | |
| 108-90-7 | Chlorobenzene | 10 U | | |
| 100-41-4 | Ethylbenzene | 10 U | | |
| 1330-20-7 | (m+p) Xylene | 10 U | | |
| 1330-20-7 | o-Xylene | 10 U | | |
| 100-42-5 | Styrene | 10 U | | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-13D

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367809

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7409

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/04/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q | C

J | R | B

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|--------------|------------------------------|------|------------|-------|
| 1. | UNKNOWN | 2.55 | 10 | J R B |
| 2. 1634-04-4 | PROPANE, 2-METHOXY-2-METHYL- | 5.33 | 24 | NJ |
| 3. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-01

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367810

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7417

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | Q | Q/C |
|------------|---------------------------|--|---|---|------|
| 74-87-3 | Chloromethane | 10 | U | | |
| 75-01-4 | Vinyl Chloride | 10 | U | | |
| 74-83-9 | Bromomethane | 10 | U | | |
| 75-00-3 | Chloroethane | 10 | U | | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | | |
| 67-64-1 | Acetone | 10 | U | | UJ C |
| 75-15-0 | Carbon Disulfide | 10 | U | | |
| 75-09-2 | Methylene Chloride | 10 | U | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | | |
| 156-59-4 | cis-1,2-Dichloroethene | 3 | J | | |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | | UJ C |
| 67-66-3 | Chloroform | 10 | U | | |
| 71-55-6 | 1,1,1-Trichloroethane | 3 | J | | |
| 56-23-5 | Carbon Tetrachloride | 10 | U | | |
| 71-43-2 | Benzene | 10 | U | | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | | |
| 79-01-6 | Trichloroethene | 140 | | | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | | |
| 75-27-4 | Bromodichloromethane | 10 | U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U | | |
| 108-88-3 | Toluene | 10 | U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U | | |
| 127-18-4 | Tetrachloroethene | 10 | U | | |
| 591-78-6 | 2-Hexanone | 10 | U | | UJ C |
| 124-48-1 | Dibromochloromethane | 10 | U | | |
| 108-90-7 | Chlorobenzene | 10 | U | | |
| 100-41-4 | Ethylbenzene | 10 | U | | |
| 1330-20-7 | (m+p) Xylene | 10 | U | | |
| 1330-20-7 | o-Xylene | 10 | U | | |
| 100-42-5 | Styrene | 10 | U | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-01

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367810

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7417

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-01

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367810

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7417

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|--------|
| 1. | UNKNOWN | 2.55 | 11 | JB R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
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Q, C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-02

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367811

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7418

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | |
|------------|---------------------------|--|-----|
| 74-87-3 | Chloromethane | 10 U | |
| 75-01-4 | Vinyl Chloride | 10 U | |
| 74-83-9 | Bromomethane | 10 U | |
| 75-00-3 | Chloroethane | 10 U | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | |
| 67-64-1 | Acetone | 10 U | W C |
| 75-15-0 | Carbon Disulfide | 10 U | |
| 75-09-2 | Methylene Chloride | 10 U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 U | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | W C |
| 67-66-3 | Chloroform | 10 U | |
| 71-55-6 | 1,1,1-Trichloroethane | 2 J | |
| 56-23-5 | Carbon Tetrachloride | 10 U | |
| 71-43-2 | Benzene | 10 U | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | |
| 79-01-6 | Trichloroethene | 100 | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | |
| 75-27-4 | Bromodichloromethane | 10 U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | |
| 108-88-3 | Toluene | 10 U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | |
| 127-18-4 | Tetrachloroethene | 10 U | |
| 591-78-6 | 2-Hexanone | 10 U | W C |
| 124-48-1 | Dibromochloromethane | 10 U | |
| 108-90-7 | Chlorobenzene | 10 U | |
| 100-41-4 | Ethylbenzene | 10 U | |
| 1330-20-7 | (m+p)Xylene | 10 U | |
| 1330-20-7 | o-Xylene | 10 U | |
| 100-42-5 | Styrene | 10 U | |

Q C

W C

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W C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-02

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367811

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7418

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-02

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367811

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7418

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

QC

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-------|
| 1. | UNKNOWN | 2.55 | 12 | JB RB |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-03

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367812

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7419

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-03

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367812

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7419

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | |
|------------|---------------|------|------------|----------|
| 1. | UNKNOWN | 2.54 | 12 | Q JB R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-04

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367813

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7420

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | Q | Q |
|------------|--------------------------------|--|---|---|---|
| 74-87-3 | -----Chloromethane | 10 U | | | |
| 75-01-4 | -----Vinyl Chloride | 10 U | | | |
| 74-83-9 | -----Bromomethane | 10 U | | | |
| 75-00-3 | -----Chloroethane | 10 U | | | |
| 75-35-4 | -----1,1-Dichloroethene | 1 J | | | |
| 67-64-1 | -----Acetone | 5 J | | | |
| 75-15-0 | -----Carbon Disulfide | 10 U | | | |
| 75-09-2 | -----Methylene Chloride | 10 U | | | |
| 156-60-5 | -----trans-1,2-Dichloroethene | 10 U | | | |
| 75-34-3 | -----1,1-Dichloroethane | 10 U | | | |
| 156-59-4 | -----cis-1,2-Dichloroethene | 11 | | | |
| 78-93-3 | -----2-Butanone (MEK) | 10 U | | | |
| 67-66-3 | -----Chloroform | 10 U | | | |
| 71-55-6 | -----1,1,1-Trichloroethane | 22 | | | |
| 56-23-5 | -----Carbon Tetrachloride | 10 U | | | |
| 71-43-2 | -----Benzene | 10 U | | | |
| 107-06-2 | -----1,2-Dichloroethane | 10 U | | | |
| 79-01-6 | -----Trichloroethene | 1000 1500 E | | | |
| 78-87-5 | -----1,2-Dichloropropane | 10 U | | | |
| 75-27-4 | -----Bromodichloromethane | 10 U | | | |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 10 U | | | |
| 108-10-1 | -----4-Methyl-2-Pentanone | 10 U | | | |
| 108-88-3 | -----Toluene | 10 U | | | |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 10 U | | | |
| 79-00-5 | -----1,1,2-Trichloroethane | 10 U | | | |
| 127-18-4 | -----Tetrachloroethene | 10 U | | | |
| 591-78-6 | -----2-Hexanone | 10 U | | | |
| 124-48-1 | -----Dibromochloromethane | 10 U | | | |
| 108-90-7 | -----Chlorobenzene | 10 U | | | |
| 100-41-4 | -----Ethylbenzene | 10 U | | | |
| 1330-20-7 | ----- (m+p) Xylene | 10 U | | | |
| 1330-20-7 | ----- o-Xylene | 10 U | | | |
| 100-42-5 | -----Styrene | 10 U | | | |

E - reported from ~~second~~ secondary dilution

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-04

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367813

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7420

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|--------------|---------------------------|--|---|
| 75-25-2----- | Bromoform | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-04

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367813

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7420

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-04DL

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367813DL

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7423

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|------------|--------------------------------|------|----|
| 74-87-3 | -----Chloromethane | 100 | U |
| 75-01-4 | -----Vinyl Chloride | 100 | U |
| 74-83-9 | -----Bromomethane | 100 | U |
| 75-00-3 | -----Chloroethane | 100 | U |
| 75-35-4 | -----1,1-Dichloroethene | 100 | U |
| 67-64-1 | -----Acetone | 100 | U |
| 75-15-0 | -----Carbon Disulfide | 100 | U |
| 75-09-2 | -----Methylene Chloride | 100 | U |
| 156-60-5 | -----trans-1,2-Dichloroethene | 100 | U |
| 75-34-3 | -----1,1-Dichloroethane | 100 | U |
| 156-59-4 | -----cis-1,2-Dichloroethene | 100 | U |
| 78-93-3 | -----2-Butanone (MEK) | 100 | U |
| 67-66-3 | -----Chloroform | 100 | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 19 | DJ |
| 56-23-5 | -----Carbon Tetrachloride | 100 | U |
| 71-43-2 | -----Benzene | 100 | U |
| 107-06-2 | -----1,2-Dichloroethane | 100 | U |
| 79-01-6 | -----Trichloroethene | 1000 | D |
| 78-87-5 | -----1,2-Dichloropropane | 100 | U |
| 75-27-4 | -----Bromodichloromethane | 100 | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 100 | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 100 | U |
| 108-88-3 | -----Toluene | 100 | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 100 | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 100 | U |
| 127-18-4 | -----Tetrachloroethene | 100 | U |
| 591-78-6 | -----2-Hexanone | 100 | U |
| 124-48-1 | -----Dibromochloromethane | 100 | U |
| 108-90-7 | -----Chlorobenzene | 100 | U |
| 100-41-4 | -----Ethylbenzene | 100 | U |
| 1330-20-7 | ----- (m+p) Xylene | 100 | U |
| 1330-20-7 | -----o-Xylene | 100 | U |
| 100-42-5 | -----Styrene | 100 | U |

only result used

AGM 5/13/00

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-04DL

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367813DL

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7423

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | | |
|--------------|---------------------------|-----|---|
| 75-25-2----- | Bromoform | 100 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 100 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-04DL

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367813DL

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7423

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|-----|
| 1. | UNKNOWN | 2.55 | 110 | JBD |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367814

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7422

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | | | |
|------------|---------------------------|--|--|--|--|
| 74-87-3 | Chloromethane | 10 U | | | |
| 75-01-4 | Vinyl Chloride | 10 U | | | |
| 74-83-9 | Bromomethane | 10 U | | | |
| 75-00-3 | Chloroethane | 10 U | | | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | | | |
| 67-64-1 | Acetone | 10 U | | | |
| 75-15-0 | Carbon Disulfide | 10 U | | | |
| 75-09-2 | Methylene Chloride | 10 U | | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | | | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | | | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 U | | | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | | | |
| 67-66-3 | Chloroform | 10 U | | | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 U | | | |
| 56-23-5 | Carbon Tetrachloride | 10 U | | | |
| 71-43-2 | Benzene | 10 U | | | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | | | |
| 79-01-6 | Trichloroethene | 9 J | | | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | | | |
| 75-27-4 | Bromodichloromethane | 10 U | | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | | | |
| 108-88-3 | Toluene | 10 U | | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | | | |
| 127-18-4 | Tetrachloroethene | 10 U | | | |
| 591-78-6 | 2-Hexanone | 10 U | | | |
| 124-48-1 | Dibromochloromethane | 10 U | | | |
| 108-90-7 | Chlorobenzene | 10 U | | | |
| 100-41-4 | Ethylbenzene | 10 U | | | |
| 1330-20-7 | (m+p)Xylene | 10 U | | | |
| 1330-20-7 | o-Xylene | 10 U | | | |
| 100-42-5 | Styrene | 10 U | | | |

Q Q C

UJ C

UJ C

UJ C

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367814

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7422

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/05/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Q C

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|--------|
| 1. | UNKNOWN | 2.55 | 12 | JB R B |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367815

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7430

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/06/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | C |
|------------|---------------------------|--|---|---|
| 74-87-3 | Chloromethane | 10 U | | |
| 75-01-4 | Vinyl Chloride | 10 U | | |
| 74-83-9 | Bromomethane | 10 U | | |
| 75-00-3 | Chloroethane | 10 U | | |
| 75-35-4 | 1,1-Dichloroethene | 10 U | | |
| 67-64-1 | Acetone | 10 U | Q | C |
| 75-15-0 | Carbon Disulfide | 10 U | | |
| 75-09-2 | Methylene Chloride | 10 U | | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 U | | |
| 75-34-3 | 1,1-Dichloroethane | 10 U | | |
| 156-59-4 | cis-1,2-Dichloroethene | 10 U | | |
| 78-93-3 | 2-Butanone (MEK) | 10 U | Q | C |
| 67-66-3 | Chloroform | 10 U | | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 U | | |
| 56-23-5 | Carbon Tetrachloride | 10 U | | |
| 71-43-2 | Benzene | 10 U | | |
| 107-06-2 | 1,2-Dichloroethane | 10 U | | |
| 79-01-6 | Trichloroethene | 10 U | | |
| 78-87-5 | 1,2-Dichloropropane | 10 U | | |
| 75-27-4 | Bromodichloromethane | 10 U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 U | | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 U | | |
| 108-88-3 | Toluene | 10 U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 U | | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 U | | |
| 127-18-4 | Tetrachloroethene | 10 U | | |
| 591-78-6 | 2-Hexanone | 10 U | Q | C |
| 124-48-1 | Dibromochloromethane | 10 U | | |
| 108-90-7 | Chlorobenzene | 10 U | | |
| 100-41-4 | Ethylbenzene | 10 U | | |
| 1330-20-7 | (m+p) Xylene | 10 U | | |
| 1330-20-7 | o-Xylene | 10 U | | |
| 100-42-5 | Styrene | 10 U | | |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS-ROC

Contract: WCC

Lab Code: 10145

Case No.: R20-1413 SAS No.:

SDG No.: MW1

Matrix: (soil/water) WATER

Lab Sample ID: 367815

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7430

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/06/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|------|
| 1. | UNKNOWN ✓ | 2.55 | 29 | JB R |
| 2. | UNKNOWN | 16.48 | 70 | J |
| 3. | UNKNOWN | 19.14 | 9 | J |
| 4. | | | | |
| 5. | | | | |
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Q7C
R B

**ANALYTICAL DATA VALIDATION
GRIFFIN TECHNOLOGY SITE
SEMI-ANNUAL GROUNDWATER SAMPLING
MARCH 2000**

INTRODUCTION

This appendix presents the findings of a validation of analytical data for samples collected in March 2000 at the Griffin Technology Inc. (GTI) Site. Sampling was conducted by URS Greiner Woodward Clyde (URSGWC) and analytical services were provided by Columbia Analytical Services, Inc. (CASI) of Rochester, New York. Twenty groundwater samples and associated QC samples were collected and analyzed for volatile organic compounds (VOCs) in accordance with New York State Department of Environmental Conservation (NYSDEC) Analytical Service Protocol (ASP) Method 95-1.

The procedures for validation of the data followed guidance from the following documents:

1. Interim Remedial Measure Program Appendix B: Quality Assurance Project Plan (QAPP). July 1996. Prepared by Woodward-Clyde Consultants.
2. CLP Organics Data Review and Preliminary Review. S.O.P. No. HW-6, Revision 11, June 1996. Prepared by USEPA Region II.

The above "Guidelines" provided the criteria to review. Additional acceptance criteria are given in the analytical method.

The criteria evaluated included the following:

VOCs

Significant problems identified in case narrative

Results reported from secondary dilutions

Sample holding times

Instrument performance and calibration

Method blank and trip blank contamination

Surrogate spike recoveries

MS/MSD recoveries and relative percent difference (RPD) values

Internal standard areas and retention times

VOCs continued:

Field duplicate results

Compound identification and quantitation

Overall assessment of data

The following sections present the data validation:

SIGNIFICANT PROBLEMS IDENTIFIED IN CASE NARRATIVE

No significant problems were identified in the laboratory case narrative.

RESULTS REPORTED FROM SECONDARY DILUTIONS

For samples that required dilutions, part of the validation process is to evaluate which set of results (initial or diluted) are considered to be most representative of the sample matrix. For this data set, two samples were analyzed at dilutions for VOCs.

- All VOC results for sample MW-7S were reported at dilution factor of 2.0 since screening prior to final analysis indicated a TCE concentration slightly above the instrument's linear calibration range. For this sample, the laboratory did not report results of an undiluted analysis.
- For the initial VOC analysis of sample RW-04 analyzed at a 1.0 dilution factor, the corresponding TCE concentration exceeded the instrument's linear calibration range and the sample was reanalyzed at a dilution factor of 1:10. For this sample, the TCE concentration reported from the diluted analysis (1,000 µg/l) is considered to be most representative of the samples' concentration and was transcribed onto the data summary table, along with any appropriate qualifiers.

SAMPLE HOLDING TIMES

The VOC holding time criterion established in the QAPP is seven days from receipt at the laboratory to analysis. Nine of the samples were analyzed between eight and nine days from sample receipt. Data qualification was not considered necessary since the samples were preserved with hydrochloric acid and were analyzed within the "Guidelines" holding time criterion of fourteen days from collection to analyses.

GC/MS INSTRUMENT PERFORMANCE

GC/MS instrument performance checks are performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for instrument performance checks included evaluation of possible transcription or calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. All criteria for bromofluorobenzene (BFB) for VOCs were met for this data set. Additionally, no transcription errors or calculation errors were found.

INITIAL AND CONTINUING CALIBRATION

Initial and continuing calibration criteria are established to ensure the instruments are capable of producing acceptable qualitative and quantitative data for VOCs. All initial and continuing calibrations were performed at the required frequency.

All VOC initial calibration relative response factor (RRF) values met the acceptance criteria presented in the "Guidelines". One VOC initial calibration had select relative standard deviation (RSD) values above the "Guidelines" acceptance criterion of 30 percent. Per the "Guidelines", samples associated with initial calibrations having RSD values above 30 percent require qualification of both detected and non-detected results as estimated (J for detects, UJ for non-detects). Sample results requiring qualification based on the outlying VOC initial calibration RSD values are as follows:

| Instrument | Date | Compound | %RSD | Qualifier Detects/Non-detects |
|-------------------|-------------|-----------------|-------------|--|
| 1. GCMS#6 | 04/01/00 | acetone | 51.4 | J/UJ |
| | | 2-butanone | 36.7 | J/UJ |
| | | 2-hexanone | 35.2 | J/UJ |

Associated Samples: All samples from sampling event

J - estimated result for detects

UJ - estimated result for non-detects

With one exception (RW-04), the affected compound results for the associated samples were all reported as non-detected.

All VOC continuing calibration RRF values met the acceptance criteria presented in the "Guidelines". VOC continuing calibration analyses had percent difference (%D) values for select VOCs above the "Guidelines" acceptance criterion 25 percent. The select compounds were the same as those that exhibited elevated initial calibration RSD values. Since the associated VOC sample results were previously qualified based on the initial calibration data, additional data qualification was not required based on the continuing calibration outliers.

Additionally, no errors in calculations or transcriptions were noted during the validation of the calibration data from this data set.

LABORATORY METHOD BLANKS

Laboratory method blanks evaluate the existence and magnitude of contamination problems resulting from laboratory activities. All laboratory method blanks were analyzed at the prescribed method frequencies.

All three VOC method blank samples were reported as non-detected for TCL-VOCs but had low level detections of an unknown tentatively identified compound (TIC). Per the "Guidelines", TICs detected at concentrations less than five times associated method blank concentrations are rejected (R). All but sample RW-04 required qualification in accordance with the foregoing. Presented as follows are the affected samples and appropriate qualifiers:

| <u>Fraction</u> | <u>Analyte</u> | <u>Conc.</u> | <u>Qualified Conc.</u> |
|----------------------------|-----------------|--------------|------------------------|
| <u>VOCs (µg/l)</u> | | | |
| 1. VBLK01 | unknown RT 2.59 | 17J | |
| Associated Samples: | | | |
| MW-1 | unknown RT 2.57 | 12J | R |
| MW-3 | unknown RT 2.54 | 12J | R |
| MW-5D | unknown RT 2.53 | 12J | R |
| MW-6S | unknown RT 2.55 | 12J | R |
| MW-6D | unknown RT 2.55 | 12J | R |

| <u>Fraction</u> | <u>Analyte</u> | <u>Conc.</u> | <u>Qualified Conc.</u> |
|-----------------|----------------|--------------|------------------------|
|-----------------|----------------|--------------|------------------------|

VOCs (µg/l)

Associated Samples continued:

| | | | |
|--------|-----------------|-----|---|
| MW-7S | unknown RT 2.55 | 29J | R |
| MW-7D | unknown RT 2.56 | 11J | R |
| MW-9S | unknown RT 2.56 | 11J | R |
| MW-9D | unknown RT 2.55 | 11J | R |
| MW-10S | unknown RT 2.56 | 10J | R |
| MW-10D | unknown RT 2.54 | 10J | R |
| MW-11D | unknown RT 2.55 | 11J | R |
| MW-13D | unknown RT 2.55 | 10J | R |

| | | | |
|-----------|-----------------|-----|--|
| 2. VBLK02 | unknown RT 2.58 | 16J | |
|-----------|-----------------|-----|--|

Associated Samples:

| | | | |
|-------|-----------------|-----|---|
| MW-2S | unknown RT 2.55 | 13J | R |
| MW-4 | unknown RT 2.56 | 12J | R |
| MW-5S | unknown RT 2.57 | 15J | R |
| RW-01 | unknown RT 2.55 | 11J | R |
| RW-02 | unknown RT 2.55 | 12J | R |
| RW-03 | unknown RT 2.54 | 12J | R |
| DUP | unknown RT 2.55 | 12J | R |

| | | | |
|-----------|-----------------|-----|--|
| 3. VBLK03 | unknown RT 2.58 | 16J | |
|-----------|-----------------|-----|--|

Associated Samples:

| | | | |
|------|-----------------|-----|---|
| Trip | unknown RT 2.55 | 29J | R |
|------|-----------------|-----|---|

RT retention time

J estimated concentration for TICs

R result is unusable

No other sample results required qualification based on detections in the laboratory method blank samples.

TRIP BLANK SAMPLES

Trip blank samples are used to assess VOC cross-contamination during shipment to the laboratory. One trip blank sample was submitted with the cooler containing aqueous samples for VOC analyses.

Two VOC TICs were reported as detected in the trip blank. TICs detected at concentrations less than five times associated blank concentrations are generally considered introduced contamination and the associated data are rejected (R) in accordance with the "Guidelines". Only one sample result required qualification per the "Guidelines" and is summarized below:

| <u>Fraction</u> | <u>Analyte</u> | <u>Conc.</u> | <u>Qualified Conc.</u> |
|----------------------------|------------------|--------------|------------------------|
| <u>VOCs (µg/l)</u> | | | |
| 1. Trip Blank | unknown RT 16.48 | 70J | |
| Associated Samples: | | | |
| MW-2S | unknown RT 16.48 | 10J | R |

RT retention time

J estimated concentration for TICs

R result is unusable

SURROGATE SPIKE RECOVERIES

Samples analyzed for VOCs are spiked with surrogate compounds prior to analysis. Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. The "Guidelines" require that all VOC surrogate spike recoveries meet acceptance criteria.

All VOC surrogate spike recoveries were within the laboratory's established control limits, which indicated that the laboratory's preparation procedure was acceptable. Additionally, no errors in calculations or transcriptions were found.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

Matrix effects on the analytical results are checked by analyzing matrix spike/matrix spike duplicate (MS/MSD) samples. MW-5D was analyzed as an MS/MSD sample for this sampling event.

All VOC MS/MSD recoveries were within the method established control limits; this indicated that acceptable analytical accuracy was achieved for these analyses. All but one relative percent difference (RPD) values between MS/MSD recoveries were within control limits; this indicated satisfactory analytical precision was achieved. The TCE RPD value was 22 percent, which is above the method RPD control limit of 14 percent. The TCE sample concentrations were substantially greater than the MS/MSD spiking concentrations (4-5 times), therefore, likely affecting the reproducibility of the MS recoveries. As such, data qualification was not considered necessary.

Additionally, no errors in calculations or transcriptions were found.

INTERNAL STANDARDS

Internal standard (I.S.) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. All VOC I.S. retention times and area responses were within the established control limits.

Validation of the I.S. data also included spot checking the retention times and areas summarized on Form-8 to those on the instrument chromatograms; no anomalies were noted.

FIELD DUPLICATE RESULTS

Field duplicate results were used to evaluate representativeness. For aqueous samples, when analytes for both duplicate and sample values are greater than five times the quantitation limit, satisfactory representativeness is indicated by an RPD less than or equal to 50 percent. Where one or both of the analytes of a field duplicate pair are reported at less than five times the quantitation limit, satisfactory representativeness is indicated if the field duplicate results agree within 2.5 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory representativeness of the results.

One field duplicate sample pair, labeled as MW-4 and DUP, was collected with this sampling event. The results reported for the field duplicate sample pair are in agreement with the above criteria, which indicates that the aggregate sampling and analytical precision was acceptable.

COMPOUND IDENTIFICATION AND QUANTITATION

Data for one or more detected compound/analytes were checked for potential identification errors and were recalculated from the raw data. No anomalies or transcription errors were noted during validation of the reported analyte identifications and quantitations.

OVERALL DATA ASSESSMENT

Based on the criteria outlined, it is recommended that the results reported for these analyses be accepted for their intended use. Acceptable levels of accuracy and precision (based on the MS/MSD results and field duplicate results) were achieved for this data set. In addition, completeness, defined to be the percentage of analytical results which are judged to be valid, including estimated (J or UJ) values, for this data set was 100 percent for TCL VOCs. Sample results from this investigation required some qualification based on the minor deficiencies summarized below:

- Acetone, 2-butanone, and 2-hexanone results for all samples were qualified as estimated (J for detects (acetone RW-04 only), UJ for non-detects) based on outlying initial calibration data.
- Select tentatively identified compounds (TICs) for all but one sample were rejected as unusable (R) based on the presence of same in associated laboratory method blank sample or field trip blank sample.

No transcription errors or calculation errors were found during validation of the reported VOC results from this data set.